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# INCOSE Chesapeake Chapter

International Council on Systems Engineering

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Vol. 2  
Issue 8

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## August 2011 E-Newsletter



**17th August is looming large in our future!** It is hanging over our heads with an import that cannot be stressed enough. Mark it on your calendar. Set a reminder on your smart phones or other convenient communications device you use. Tell your significant other or social secretary to remind you on a daily basis. Yes it's that important! And why?

- You need to vote on a proposed change to our chapter's Bylaw. [Read more HERE.](#)
- It's the last day for members to apply for a board position. Get yourself on the ballot and run for next years Board of Directors. You can help lead this organization to higher heights of glory. [Read about the nomination process HERE.](#)
- And 17th August will be our first Movie Night with **Free Pizza** - We'll be watching a rarely seen documentary of the venerable Dr. Deming, as he reflects on the impact of his teachings on America. Read about it below - it's the first article of this months jam packed Newsletter.

Enjoy your summer but don't forget \*\*\* **17th August** \*\*\*

~ Paul B Martin, CSEP, INCOSE Chesapeake Communications Officer

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### August 2011

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This is the monthly newsletter for INCOSE Chesapeake, a local chapter of INCOSE International. We are a not-for-profit organization dedicated to providing a forum for professionals practicing the art and science of Systems Engineering in the Northern & Central Maryland & Southern Pennsylvania area.



### Dinner Meeting - Wednesday 17 August 2011

## Movie Night: The Deming of America

*A documentary produced by: Priscilla Petty*



**Presentation:** Our nation must work once again to come out of our crisis. We're challenged by global and local events. But the proven strategies in this documentary can help our country transform and innovate. Dr. W. Edwards Deming is shown at his unrehearsed best at his home, at a seminar, and in thought-provoking specially selected segments from an all-day interview with Priscilla. Brief remarks from Fortune 100 CEOs, who learned from Deming, show how he affected their thinking about their lives and companies as he worked with them to effect the transformation. Inspiring. Produced in 1991 by Petty Consulting Productions.



**Location:** [Applied Physics Laboratory, Johns Hopkins University](#); 11100 Johns Hopkins Rd Laurel MD 20723 (Main Entrance - Lobby 1)

**Free Meal:** Various Pizzas, Salad, dessert, including a small Fruit Plate, coffee, iced tea, sodas.

The Chesapeake Chapter is always looking for volunteers to speak at our upcoming meetings! Please contact our Programs Director, [Mr. Donald York](#), if you would like the opportunity to speak or can recommend someone.

The Chesapeake Chapter of

[>>Download the Meeting Flyer Here<<](#)

#### Reservations:

- **By website:** Free Dinner but please use our [>>Registration Page<<](#) so we'll get an accurate count of attendees

This month we're going to change it up. Instead of a book our door prize will be **two free dinner passes** (to two different individuals) for a future INCOSE Chesapeake Chapter meeting/dinner. They would have to be used this year or within 6 months. So come on out for a chance to win.



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## Presidents Corner

### A Hot Summer with Hot Topics *Bylaws, Board Elections, Committees, & Ambassadors*



'Tis the season to be elected! You can be elected to the board of directors, to a working group chair, or to an ambassador position. You can even get involved in fixing the constitution, by-laws, or operational plan (all accessible on the [Operational Documentation Folder of the Library Tab](#)).

What is so important about the By-Laws? Our operational documentation is not always correct. Mistakes need to be corrected. For more than ten years the BoD was elected using paper ballots during a regular membership meeting.

What did the by-laws say? They specified "balloting by mail." George Anderson saw this while we were writing the 2011 Operational Plan and found a way to fix it. You will be asked to approve this fix in the August meeting (see [George's article below](#)).

This fall, you "the membership" will be electing a president-elect (or vice president), treasurer, secretary, program director, membership director, and communications director. As of January 1st, our president elect Gundars Osvalds will become the new President. He and the other new officers will take charge. I become an ex-officio member of the board (past president). According to the operating plan, the working directors are asked to select supporting committees. Especially important are the highly visible membership, programs, and communications posts. You may want to serve on one of these committees. No election is required for these positions.

Less obvious are the working group chairs. The Chesapeake Chapter has had a long standing working group called Object Oriented Systems Engineering Methodology (OOSEM). The working groups are the technical and professional core activities of the chapter. Systems Engineer Certification has been a big push. Another high impact area is Model-Based Systems Engineering (MBSE).

Finally, there are the ambassadors. These are the interfaces between companies, universities, and other professional societies. At the simplest level, they forward announcements into internal networks and promote sharing of content among chapters.

**Don't you think it's time to get involved??** Send me a note. Let's talk about how you can be part of this vibrant, growing organization.

Regards,  
John Lewis, CC President,

INCOSE is proud to recognize the following organizations for sponsoring our endeavors to expanding the understanding and appreciation of Systems Engineering in the local area:



**Mark your Calendars with these upcoming Chapter events:**

**Saturday 17 Sept 2011  
Tutorial by Vitech Corporation  
Teacher TDB**

**Wednesday 21 Sept 2011  
Agile Systems Engineering  
Dr. Suzette Johnson, Northrop Grumman**

**Get Involved with your Chesapeake Chapter**

**Join a Committee! Make a Difference!**  
*Be part of the organization that's promoting Systems Engineering across the globe for the benefit of humanity and the planet!*

[john.lewis@incose.org](mailto:john.lewis@incose.org)

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## Announcements

### 1) Bylaw change proposed during Aug 17 Meeting

The INCOSE Chesapeake Chapter's Board of Directors (BoD) is requesting our active membership's attention to a bylaw change that will be voted on at the August 17, 2011 membership meeting. The change provides a necessary alternative to mailing the annual election ballots. A secure internet system as used last year on a trial basis is added. By secure we mean that the ballots are each accounted for by the member's email address and/or member number. Only members in good standing will have their vote counted and a record of the voting is generated for audit purposes. [Read More -->](#)

### 2) The Chapter's BOD Nominations must be in by Aug 17th

This year we have an early start on our nomination and election process. The BOD respectfully solicits nominations for the vacant and term expiring positions. All Chapter members in good standing are encouraged to run for any open position. **A brief bio and a Position Statement will be required from each of the nominees.** Please contact the Nomination Committee Chair, [George.Anderson@INCOSE.org](mailto:George.Anderson@INCOSE.org), 410-206-8285.



The timetable for the election process is as follows:

- August 17, 2011 - Last day for members to apply for a board position.
- September 1, 2011 - Ballots sent to membership via email
- September 15, 2011 - Ballot Submission Deadline
- October 1, 2011 - Election results announced.
- November 16, 2011 - Investiture ceremony for new Officers at the monthly membership meeting.
- January 1, 2011- New officers assume their duties on behalf of the chapter membership.

The following positions are being presented to be filled by majority vote of the membership:

- President Elect
- Treasurer
- Secretary
- Programs
- Communications
- Membership

We have currently an active membership of 275, a Gold Circle Award and the Most Improved Chapter Award for 2010. We are a front running organization but we need everyone's support to keep up with our commitments. Please consider either serving on the BOD or actively supporting the chapter by volunteering your time and resources to areas that you feel most important. Remember that there are many ways to distinguish yourself in the INCOSE community.

- **Communications**  
Contact: [Paul Martin](#)  
*We need writers, editors, photographers, website and newsletter maintainers*
- **Programs**  
Contact: [Don York](#)  
*We need help in planning, arranging, organizing and executing the various Chapter events to include speaker presentations, tutorials, panel discussions, and the holiday party.*
- **Membership**  
Contact: [Bhanu Sunkara](#)  
*We need help in growing our membership by reaching out into the local SE community.*

If any of these activities sound interesting to you please contact the Committee Director to find out how you can get involved.

#### Local SE Training

#### Preparing for the Certified Systems Engineering Professional (CSEP) Exam

Obtaining a CSEP is not easy, but that's what makes it so valuable. You have to demonstrate your real world experience via a lengthy application and three references. Then you need to pass a two-hour, 120-question, multiple-choice exam. The courses listed below will help prepare potential candidates for this demanding process by becoming familiar with the INCOSE SE Handbook version 3.2 which is the basis for the examination.

#### UMBC Training Centers



[Read about the duties and responsibilities of each officers -->](#)

### 3) Systems Engineer of the Year (SEY) Committee accepting nominations

*Carol Hutchinson, the chairman of the Evaluation Committee for the chapter's Systems Engineer of the Year (SEY), announces that the committee is accepting nominations for the SEY 2011.*



INCOSE has long encouraged formal programs for training systems engineers and professional activities for honing systems engineering skills. The INCOSE Chesapeake Chapter **Systems Engineer of the Year (SEY)** award complements these existing programs by providing more complete recognition of the efforts required to function as a systems engineer.

The award is administered by the Board of the Chesapeake Chapter of INCOSE with the Past SEY winners selecting the candidate from those applications received by the due date. All members of the Chesapeake Chapter of INCOSE are eligible for SEY award consideration.

Read about the criteria, due dates, download the nomination forms and the application itself as well as a listing of past winners on: [Chesapeake Chapter SEY Webpage.](#)

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#### Feature Article

## The Era of Quality-Based Management Systems

### *One Man's Irreverent View*

By George Anderson

In our industrial and information industries, the management theories relating to increasing business efficiency and their offspring, quality practices, are proliferating at an increased rate in almost every category of commerce. I would suggest that an era of employing quality theories to address management problems began shortly after World War II. During this period, serious attempts were made to create theories that would maximize the efficiency of industrial and business processes. At some point, when an analytic connection was made between customer satisfaction and process development, *quality as a service industry* was born.



The first imperative in understanding quality programs is to recognize that the profit motive is a prime motivator. Commercial or non-profit entities exist for the business purpose of selling their services and intellectual property to clients who are seeking certification or other recognition. The cash flow of quality has both national and international winners and losers and competition among the systems is intense.

What are the primary quality programs or systems in the US today? Based on market penetration in Government and Industry, I would suggest that five deserve examination. These are:

# UMBC

**Training Centers**  
offer an on-line  
**CSEP Prep Course**  
Dates: 4 Saturday  
Mornings,  
**August 6 - August 27,**  
**2011**

[>>Register Here<<](#)

#### Free Handbook Tutorial

- See our [Chapter's Website Education Page](#) for more information.

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#### Discover Systems Engineering



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[Click Here](#)

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With Connect you can also download the April 2011 Issue of INSIGHT *Special Feature on Knowledge Management*



1. Deming
2. ISO 9000
3. CMMI
4. Six Sigma
5. ITIL - ISO 20000

[Read More about these various Quality initiatives.](#)

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This Newsletter is to serve our members and is open to all for contributions. Do you have an interesting idea for an article? A review of a new book related to engineering? [Let us know.](#) We'd love to hear about it. It may wind up in a future issue of our Newsletter.

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### Did You Miss Last Month?

## Challenges and Opportunities for Systems Engineering from a DoD Perspective



Mr. Stephen P. Welby; Deputy Assistant Secretary of Defense for Systems Engineering, started his talk by thanking all the Systems Engineers in the audience (which was a vast majority) for being such optimist and dreamers. Systems Engineers change the world into a better place. And our country is in desperate need for more Systems Engineers. Challenges from a Global Perspective like finding reliable and sustainable power; addressing environmental concerns; fixing the aging infrastructure; creating affordable medical care; growing clean and abundant food; providing a secure environment (military, economic, and political). And what role does the United States play in addressing these challenges? We are a nation of builders -- from Rail Roads to Space Travel -- and we have innovation on our side.

The three Systems Engineering Challenges

- A. Managing Complexity
- B. Managing Risk
- C. Growing Future Engineering Leaders

This meeting had a record breaking attendance with 54 for dinner and 73 for the speaker. It was a very successful meeting and enjoyed by all who attended. Please join us next month.

[Read More Details and see More Photos ....](#)

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### Welcome to our Newest Chapter Members

- Patrick B. Dever  
*Northrop Grumman Corp.*
- Thomas Franchetti  
*Northrop Grumman*
- Nicolas Salciccioli Johns  
*Hopkins University  
Applied Physics  
Laboratory*
- Ted LaFemina *DRC*
- Bill Frix *U. S.  
Government*
- Carlos Milian *ENVIETA,  
LLC*

We welcome our latest new members. We look forward to seeing you at our meetings and tutorials.

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Keep up with the latest news and events. Find out about our new Board of Directors. Explore our extensive library of previous lectures from our Monthly Dinner Meetings. Learn of the Benefits of Joining INCOSE. Check out Systems Engineering education in the local area. All this and more awaits you at our [INCOSE Chesapeake Chapter Website.](#)

For any comments or suggestions about this newsletter please e-mail our [President, John Lewis](#) or our [Communications Officer, Paul Martin](#). We value your feedback.

#### Board of Director Officers, 2011

- President: Mr. John Lewis
- Past President: Mr. George Anderson
- President Elect: Gundars Osvalds
- Treasurer: Mr. Glenn Gillaspay
- Secretary: Mr. Bob Berkovits

#### Directors at Large

- Communications: Mr. Paul Martin
- Programs: Mr. Donald York
- Membership Committee: Ms. Bhanumati Sunkara

**Please use the Forward email link below so we can invite your friends to join our mailing list.  
Thanks in advance.**

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