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September 2015

# E-Newsletter

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## President's Point of View



Mr. George Anderson  
INCOSE CC President

[george.anderson@incose.org](mailto:george.anderson@incose.org)

chalked up another success for our Chapter's unique way of promoting the INCOSE Systems Engineering Professionals (SEP) certification program.

Each year we have tried to improve the experience and this year was no exception. The biggest change was to invite INCOSE SEPs from all of the adjoining states and provide notification and information to them using email. Given that this was our first invitation to this group, we conducted several email campaigns weekly before the event to make sure that we were reaching our audience. The response was positive with over 35% opening and reading the invitations. (We also conducted an email survey after the event for the attendees so that they could have a chance to complain if they felt that we had tried too hard with our email campaign.)

**"Don't look back. Something might be gaining on you." <sup>1</sup>**

The Board of Directors (BOD) resisted the urge to rest on the wonderfully successful visit to the INCOSE International Symposium in July and worked hard in August to organize the 6th Annual SEP Reception at the Engineers Club in Baltimore. In spite of other diversions, last minute crises and a bit of performance anxiety, we

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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.

**Join  
INCOSE  
Today**

The Chesapeake Chapter is always looking for volunteers to speak at our upcoming meetings! Please contact our Programs Director at [programs@incose-cc.org](mailto:programs@incose-cc.org) if you would like the opportunity to speak or can recommend someone.

The Chesapeake Chapter of INCOSE is proud to recognize the following organizations for sponsoring our endeavours to expanding the understanding



Figure 1. A Speaker's View of the Mansion's Ballroom Filled to Capacity

The number in attendance was around 95 including the invited speakers and, for the first time, we had additions of three walk-ins plus a gentleman from Boston who stopped by on his return trip from Washington, DC. A tribute to our posters placed in lobbies and cafeterias!

We also added a new process to our ESEP recognition ceremony. The ESEPs who were in the audience were asked to come forward and form a receiving line to be the first to welcome the new ESEPs as they received their Chapter Recognition Certificates.



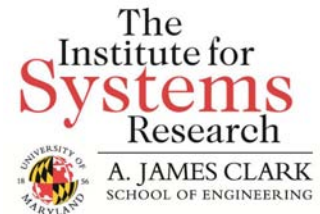
Figure 2. Chapter ESEPs congratulate their new fellows

The after event survey of the attendees gave us good news and some advice. Those who participated in the survey gave the Engineers Club high marks for value and liked the opportunity to hear the speakers and meet with them during the social hour. We also received constructive comments on our failure to individually honor each new Chapter ASEP and CSEP.<sup>2</sup>

In the past we have listed all new SEPs on Boards as well as slide shows. Perhaps in future events, time can be set aside for more formal

and appreciation of Systems Engineering in the local area:

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recognitions.

Other likes from the attendees were the seven Mansion tours and the Chocolate Mousse Desert which was devoured long before the other selections according to this year's architect and planner of the event, Kent de Jong, CSEP, Treasurer. Thanks, Kent for doing all the worrying to make this event successful and we are all sorry that you did not get to the desert before it was all gone.

Another important lesson learned was the answer to the last survey question that asked about attending next year. It was almost a unanimous "very likely".

Kent and I and the entire BOD wholeheartedly thank those of you who took the survey for this vote of support!

While it is satisfying to describe our Gala successes, I must now turn your attention to what I believe are the most important future concerns for the Chapter and its members. These are: The election of BOD officers, ASEP and CSEP certification renewals, and membership recruiting and retention.

The BOD nominating committee will soon want to announce the candidates running to fill the position of:

- President Elect
- Programs Chair
- Membership Chair

Before they can do this, however, they must have engaged candidates for each position to place on the ballot. Please support the work of the nominations committee and consider running or working with others to insure that our best Chapter talent is asked to run.

The election process is one of the areas of our Chapter operation that historically has disappointed me the most. In my 15 years with the Chapter, I have yet to see any evidence of reasonable cooperation from the membership at large or any recognition of the importance of filling the BOD positions with motivated and capable persons. If this continues, we could possibly experience the departure of our qualified BOD members and eventually the Chapter could become a candidate for annexation. Please do your individual best to counter this seasonal complacency among our normally dedicated and supportive membership.

An outstanding chapter needs the best leadership and also those aspiring to earn that recognition.

Gundars Osvalds, the Membership Director has been struggling with the neglected INCOSE International membership roles and is slowly trying to answer the important questions that we require to properly manage our membership. His duties include identifying and welcoming new members and following up on expirations. Presently, that is not possible due to issues with the membership data repository. Closely associated with this work is the tracking of SEPs whose certifications are expiring. All ASEPs and CSEPs must renew every three years and have accrued a defined level of development points to qualify for renewal. We currently have a high level of expirations and do not know if the individuals, in general, have been able to earn the necessary



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## Professional Development Units (PDUs) for renewal.

For those that need PDUs, volunteering for Chapter leadership is a path to meeting the requirement given there is no limit on the category. Gundars Osvalds will present a more in-depth discussion how to keep your SEP certification by earning PDUs in this newsletter.

I cannot close this month without thanking the ESEPs, shown in figure 3, who organized coordinated and presented our first live streaming video program. Led by Gundars Osvalds, they presented a forum on what they had learned at the International Symposium in July. The August 19, 2015 event is viewable through a [YouTube link](#) on the Chapter Webpage.



Figure 3. L to R James Armstrong, David Fadeley, Gundars Osvalds, David Alldredge, and Ellie Gianni

In closing, I believe that the Chapter will continue to make history and with everyone's assistance can address the areas that need improvement.

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[1] Satchel Paige (1906-1982); Baseball Hall of Fame Member

[2] This is a good point to make a plea for more volunteers to help with our activities. Actual volunteer work must go into planning organizing, coordinating and executing the SEP Gala. We would greatly appreciate if all Chapter members who attended would recognize this need and consider donating some time to helping us provide more value next year.

George Anderson - INCOSE Chesapeake Chapter President

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Postscript: A quick sampling of the pictures from the SEP GALA. We will have the rest available for downloading soon.



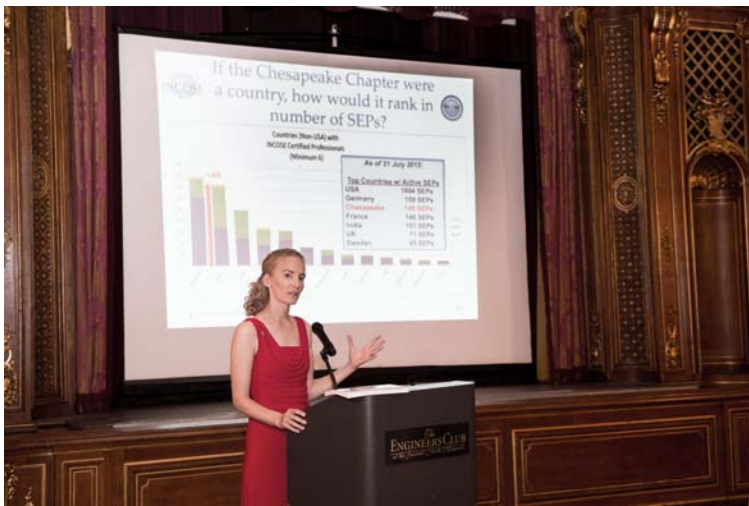


Figure 4. Courtney Wright explains that Chesapeake has more SEPs than most countries



Figure 5. Craig Tyler receives his ESEP Recognition Certificate from George Anderson and Courtney Wright



Figure 6. Myra Parsons Gross receives her INCOSE Chesapeake Chapter ESEP Recognition Certificate from George Anderson and Courtney Wright



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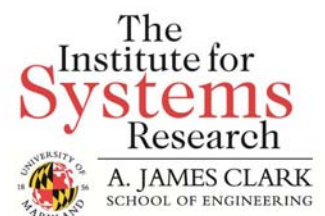




Figure 7. Neal Anderson's ESEP Recognition Certificate is received by his wife and daughter (Neil was unavailable due to company business). Presented by George Anderson and Courtney Wright

## Fall has Arrived!

Ellie Gianni, ESEP, President-Elect

### Labor Day

The final days of summer have arrived. Vacations are over. Internships have ended. We find ourselves sending our college students off to resume their studies and are busy with homework, Back-to-School nights, soccer and football games and PTA meetings.

As we enter the month of September, we reflect on the meaning of the upcoming Labor Day holiday on Monday, September 7, 2015. Our family is a family of Italian immigrants who were Teamsters and Boilermakers, and have always celebrated the holiday by displaying the American flag and attending parades and picnics during the weekend. According to the Department of Labor, "Labor Day... is a creation of the labor movement and is dedicated to the social and economic achievements of American workers. It constitutes a yearly national tribute to the contributions workers have made to the strength, prosperity, and well-being of our country."

Labor Day is also about celebrating the sacrifices working people have made to the shared prosperity of this country. It's about valuing people, regardless of where they were born, for their work and the contributions they make to the economic well-being of our great country (Perrone , López). As we approach the Labor Day holiday let us reflect upon the accomplishments, contributions and sacrifices of the great men and women who helped to shape our nation.

### Patriot's Day

On September 11, 2015, Patriot's Day, we remember those innocent victims and First Responders that sacrificed their lives in the attacks on the World Trade Center on September 11, 2001. Thank you to those of you who continue to serve, protect and defend our nation. We remain





vigilant, as the threats to our country continue to evolve.

## Congratulations to the New SEPs

On a brighter note, on August 26, 2015 the INCOSE Chesapeake Chapter hosted the Sixth Annual Systems Engineering Professional Recognition Gala at the Garrett Jacobs Mansion. Approximately one hundred INCOSE members and their guests attended the event at this home of the Engineers Club in Baltimore, Maryland.

Three new ESEPS were recognized: Neal Anderson, Northrop Grumman, Myra Parsons Gross, Jovian Concepts, and Craig Tyler, Vencore. The VIP guests who participated in the ceremonies included: Mr. Robert Gold, Director of Engineering Enterprise within the Office of the Deputy Assistant Secretary of Defense for Systems Engineering DASD (SE), Ms. Courtney Wright, CSEP, Program Manager, INCOSE Certification Program; and Mr. Mike McNamee, Chief Systems Engineer, NSA.

## Upcoming Elections

Thanks to you - our members, our chapter continues to grow and thrive. The Board of Directors Elections will be held in October. All members in good standing will be sent a ballot via email. Please consider running for INCOSE Chesapeake Chapter offices or volunteering for an associate position on the Board of Directors. This years vacancies are:

President Elect (Term is 3 years)  
Secretary (Term is 2 years)  
Programs Director (Term is 2 Years)  
Membership Director (Term is 2 years)

## ESEP Summit

A quarterly ESEP Summit meeting will take place on Saturday, 26 September 2015 from 0800-1100 in the Barton Conference room located in the Johns Hopkins University Applied Physics Laboratory Building 1.

David Fadeley, ESEP, our first ESEP, is presiding. He may be contacted at: [dbfadeley@verizon.net](mailto:dbfadeley@verizon.net).

## INCOSE Chesapeake Chapter Women in Systems Engineering (WISE)

WISE is now supporting the Baltimore-Washington Society for Women Engineers (SWE). They will be co-hosting the "Aspire to Lead" Workshop on Saturday, 19 September 2015. To register, please visit the SWE website, <http://www.baltwashswe.org/Aspire-to-Lead>.

See more at: <http://www.incose-cc.org/wise-2/#sthash.DY1bCv4s.dpuf>

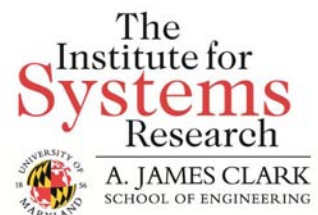
In closing, I want to stress that we on the BOD want to hear from you.

Please feel free to contact any of our Chapter Presidents with your questions:

- President, George Anderson, ESEP, at [xenia52@aol.com](mailto:xenia52@aol.com)



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- President Elect, EleanoraAnn "Ellie" Gianni, ESEP, at [EleanoraAnn.Gianni@jhuapl.edu](mailto:EleanoraAnn.Gianni@jhuapl.edu)
- Past President, Erik Devito, CSEP, at [erik.r.devito@gmail.com](mailto:erik.r.devito@gmail.com)

Happy Fall!

Ellie Gianni, ESEP

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## Dinner Meeting on 16 September, 2015 (6:00pm - 8:00pm): Techniques for Conducting Effective Concept Design and Design-to-Cost Trade Studies



David A. Di Pietro, Senior Engineer for Advanced Concepts and Architectures, NASA Goddard Space Flight Center

Presentation: Concept design plays a central role in project success as its product effectively locks the majority of system life cycle cost. Such extraordinary leverage presents a business case for conducting concept design in a credible fashion, particularly for first-of-a-kind systems that advance the state of the art. A key challenge is to know when credible design convergence has been achieved. In this session, we will use a space system example to discuss the level of convergence needed for concept design, the importance of design and cost evaluation learning curves in determining credible convergence, techniques that help expedite convergence, and practices for conducting effective concept design-to-cost studies.

Click here for more details:[www.incose-cc.org](http://www.incose-cc.org)

Go to [www.incose-cc.org/registration/](http://www.incose-cc.org/registration/) to register

Parsons Auditorium, Bldg 1  
Johns Hopkins University Applied Physics Laboratory  
11100 Johns Hopkins Road  
Laurel, MD

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## Tutorial on 19 September, 2015 (9:00am - 1:00pm): Four Areas of Special Importance to the Systems Engineer

**serco**  
Bringing service to life

**Camber**  
Customer Focused, Employee Driven

**CyberCore**  
TECHNOLOGIES

**APL**  
JOHNS HOPKINS  
APPLIED PHYSICS LABORATORY

**Scitor**  
Corporation

Business Transformation Institute  
PERFORMANCE

**PROTEUS**  
TECHNOLOGIES  
*Outsmart.*

**JOVIAN**  
CONCEPTS





Dr. Howard Eisner, Retired  
Professor Emeritus, The  
George Washington  
University

Presentation: Amidst the various aspects of systems engineering dealt with over many years by the presenter, four areas stand out as being of special importance: (1) The Systems Approach, (2) System Architecting and Design, (3) Computing Detection and False Alarm Probabilities, and (4) a "Top Ten" List for Systems Integration. The systems approach is made specific with a discussion of ten subordinate areas. System architecting is examined in some detail, resulting in a definitive procedure that explicitly considers

an analysis of alternatives. Detection and false alarm probability calculations are demonstrated, including tradeoffs between the five key variables. Finally, the complex matter of systems integration is explored.

Click here for more details: ([www.incose-cc.org](http://www.incose-cc.org))

Go to [www.incose-cc.org/registration/](http://www.incose-cc.org/registration/) to register

Kossiakoff Center Classrooms  
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## Your SEP Certification will expire unless you act

Gundars Osvalds, ESEP, Memberships Director

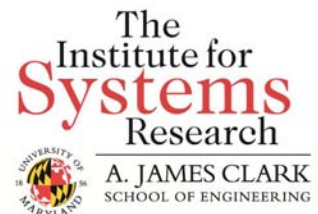
The years pass and you forget the details of your SEP certification and your responsibilities to keep it current. Many members have earned the SEP certification in the last three years and now it's time for you find out what you need to do to keep your certification. This article provides information you can use to make sure you keep your certification current.



Gundars Osvalds



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As a Systems Engineer Professional certified by INCOSE you have a responsibility to yourself to keep your certification current:

**ASEP** — Requires that you earned 120 Professional Development Units (PDU) every five years and must maintain INCOSE membership and transition to CSEP within 15 years. A INCOSE Membership fee is required each year.

**CSEP** — Requires you earned 120 Professional Development Units (PDU) every three years. Currently no Membership is required. CSEPs obtaining certificate starting in 2016 will be required to keep their INCOSE Membership current by paying a fee.

**ESEP** — Requires you maintain INCOSE membership by paying a yearly INCOSE membership fee.

From "[SEP Logo Guidance](#)" Every individual who has earned and kept current (as defined above) an INCOSE SEP credential is entitled to use the appropriate designation immediately after their name on correspondence, Emails, business cards, resumes/CVs, papers/articles, presentations, and other similar items. Once a credential has expired, for any reason, the individual is no longer authorized to use the designation.

You can find out the deadline for your ASEP or CSEP expiration date by reviewing the INCOSE active SEP list on the INCOSE Certification web site click here: [Current SEP's](#). As a ASEP or ESEP you also need to check that your membership status is active. If you cannot log into the Members section on [INCOSE.org/login/](http://INCOSE.org/login/) there is information at the login page on how to verify your membership status and account access. INCOSE support can provide information on how to restore your membership by paying dues to INCOSE. The Chesapeake Chapter does receive part of the dues to support the Chapter activities.

In reviewing the Current SEP records from the INCOSE site for the Chesapeake chapter the following list of expirations was compiled:

EXPIRED in JUL-AUG 2015 — ASEPs -5; CSEP -1; ESEP - 1

Expiring from SEP-DEC 2015 — ASEPs -2; CSEPs -14

Expiring from JAN-DEC 2016 — ASEPs -0; CSEPs -42

Expiring from JAN-DEC 2017 — ASEPs -4; CSEPs -30

Expiring from JAN-DEC 2018 — ASEPs -9; CSEPs -12

Expiring from JAN-DEC 2019 — ASEPs -6

Expiring from JAN-DEC 2020 — ASEPs -1

If you are one of the SEPs that are close to the renewal date you need to complete the forms at: [Renewal INCOSE SE Certification](#)

The ASEP renewal fee is \$100 every 5 years. To keep your membership the fee is \$38 for Student and \$145 for Regular Individual Members. To obtain New or Renew Membership click on: [INCOSE](#)



[Membership Types](#) and then to [Join INCOSE](#).

The CSEP renewal fee is \$100 if you are an INCOSE member, \$150 if not a current member.

The INCOSE Membership fee is \$145 year.

Individual members qualify for the Senior category if they are at least 64 years of age at the time of their membership renewal and have maintained their individual membership for the five membership years prior to applying for the Senior category. Senior members also receive a 50% discount on their registration and other program fees for the International Symposium, and a reduced registration fee for the International Workshop.

Note: Those members who intend to seek Senior member status and take advantage of the discounted fees at the International Symposium must renew their membership prior to registering for the symposium. Senior member status must be confirmed by the Central Office [Email](#) before individuals can register at the discounted rate.

The [presentation](#) pages 50-51 (shown below) have a list of Professional Development Activities where one can earn Professional Development Units: there are many ways you can earn them but one way that can you can earn PDUs is to:

## Perform leadership role in professional technical society at local, national or international level – Credit 1 PDU/hour of effort/ No Limit

You can earn credit for your ASEP and CSEP recertification by earning PDUs when volunteering to help the Chapter Board of Directors with your services. The instructions and forms for renewal are located on [Certification Form](#) page under the [Certification](#) section. Please contact any of the Board members to discuss how you can help the Chapter and help yourself with your certification continuation.

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## Upcoming Events and Announcements

- September 16, 2015: Dinner Meeting — Techniques for Conducting Effective Concept Design and Design-to-Cost Trade Studies, by David A. Di Pietro
- September 19, 2015: Tutorial — Four Areas of Special Importance to the Systems Engineer, by Dr. Howard Eisner
- October 21, 2015: Dinner Meeting — Human Factors Engineering, by Dr. Amy Bayes and other faculty members from Johns Hopkins University
- November 18, 2015: Dinner Meeting — TBD
- December 9, 2015: Holiday Party
- Interested in Jobs Networking? Contact Mark Kaczmarek at [mkaczmarekengr@comcast.net](mailto:mkaczmarekengr@comcast.net)



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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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, George Anderson](#) or our [Communications](#)

[Director, Pat Williams](#). We value your feedback.



#### Board of Director Officers, 2015

- President: Mr. George Anderson
- Past President: Mr. Erik DeVito
- President Elect: Mrs. EleanoraAnn "Ellie" Gianni
- Treasurer: Mr. Kent DeJong
- Secretary: Mr. Mark Kaczmarek

#### Directors at Large

- Communications: Mr. Pat Williams
- Programs: Mr. Glenn Townson
- Membership Committee: Gundars Osvalds

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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