

The Integrator

North Star Chapter of INCOSE

Newsletter

Volume 14, Issue 3

Third Quarter 2017

Chapter News

The President's Corner...

Happy Fall! As the leaves start to turn, fall is a busy time for the North Star Chapter. We have a vibrant community that offers a lot through the year. For a healthy community, we need participation and to get participation, our members need to see the value of INCOSE. To that end, I have 2 asks of you:

1. How are you participating in the North Star Chapter?
2. What can the North Star Chapter do for you

Participating is easy. As simple as attending a meeting, opening a newsletter, or voting for elections. There are a lot of exciting upcoming opportunities to participate in the Chapter:

- Elections for 2018 are coming up. Please Vote when the Survey Monkey comes out!
- 2018 Strategy Planning session is on Saturday, November 4, 2017 from 9 am – 3pm, 3554 Bryant Ave S, Minneapolis, MN 55408. Want to understand how the year's activities are planned? Looking to get something added to the schedule? Want to be involved. Come to our planning session.
- North Star Holiday Party: Saturday December 2, 2017. Curling, drinks, and dinner! Let's celebrate the end of the year and the holidays together. We hope to see you there.

We would love to see you at some or all the events.

My second ask, is simply "What can the North Star Chapter do for you"? Check out our [North Star Chapter Webpage](#).

Check out the [international website](#). Still not seeing what you are looking for? Then send us an email at northstar.incose@gmail.com. Whether it is networking, connecting you to someone specific, or giving you more information...we would love to hear from you and help make your member experience a valuable one.

And to those of you who are actively participating. Thank you for everything that you do. This community is a direct reflection of all your efforts.

Let's finish 2017 strong!

Michele Zoromski, 2017 North Star INCOSE President

July 31st NSC Meet-and-Greet with Chris Unger from the Healthcare WG

Chris was a Guest Speaker at the **Medtronic System Engineering Symposium: Engineering Systems of Systems**. While he was in the Twin Cities, we organized a Meet-and-Greet inviting Systems Engineers who work in the Medical Device industry.

Chris sends his remarks to those in attendance and we thought some of the conversation should be shared.

On behalf of Chris: Thanks to everyone who could make it to the Meet-and-Greet on the evening of August 31st. I learned a lot, and I appreciated the conversation.

But for now, I think I got Kousha, Anthony, John, and Brian to consider volunteering to help the HWG set priorities; participate in a "User Advisor Board", to be confirmed once we firm up the expectations and operations.





in healthcare, and systems biology). There are a few more 'planned', but we don't have the right authors lined up. I'm very happy to consider more detailed articles sponsored by the Healthcare WG, but they wouldn't be 'validated' by the SEBoK editorial board till other application domains catch up to us.

Thanks again!

Chris Unger
GE Healthcare Chief Systems Engineer

The discussion also confirmed that the potential topic list is for the **4th Annual INCOSE Conference Systems Engineering in Healthcare** is interesting. Chris will go through the feedback to see if some might be trimmed and the UAB can help define the next level down: what aspects would be especially interesting to see in the conference.

People also mentioned that they were not aware of the Healthcare domain SEBoK extension. The top 2 articles are at:

http://sebokwiki.org/wiki/Overview_of_the_Healthcare_Sector

http://sebokwiki.org/wiki/Healthcare_Systems_Engineering

There are three more articles at lower level (healthcare delivery, lean in healthcare, and systems biology). There are a few more 'planned', but we don't have the right authors lined up. I'm very happy to consider more detailed articles sponsored by the Healthcare WG, but they wouldn't be 'validated' by the SEBoK editorial board till other application domains catch up to us.



NEXT GEN ENGINEERS CLUB



Does your child love to design, create, and build? Do you want your 6th or 7th grader to meet mentors in exciting careers?

NEXT GEN ENGINEERS CLUB is a 6-week program on Saturday afternoons in fall 2017 at The Works Museum. Each Saturday session will introduce 6th and 7th graders to the real world of engineering through fun activities.

Program participants will:

- Develop skills such as collaboration, persistence, and problem solving.
- Meet and work with other 6th and 7th graders with similar interests.
- Make a project that solves a real-world engineering problem and have fun doing it.

Program details:

- The Club will meet from 1-4 p.m. on October 7, 14, 28, November 4, 11, 18.
(Note: no program on October 21 due to Teacher Conference weekend). Please note that there are no make-up sessions.
- The Club is open to students who will be in 6th or 7th grade this school year.
- You will provide transportation for your participant. Participants can be dropped off 15 minutes before program start time and must be picked up 15 minutes after program end time.
- \$240 (\$220 members) for 6 three-hour sessions; full and partial scholarships are available.
- Applications are due by September 13. Participants will be notified by September 18.

If you're interested in your child participating in this exciting new program and want more details, contact Kit Wilhite via email: kit@theworks.org.

This program is supported by the Firefly Scientists Fund.



Visit theworks.org/next-gen-engineers-club-2/ for more information and to apply.

Volunteers Needed!

A volunteer's commitment would be to come to one Saturday afternoon (1pm-4pm), chat about their own engineering career and how that fits in the design process, and hopefully be able to support part or all of the afternoon project.

The Program Days are October 7, 14, 28 and Nov 4, 11, 18

Get involved with STEM mentoring opportunities: The Works is looking for volunteers for their Next Gen Engineers Club for October and November. Check out the information on the [North Star Chapter Webpage](#).

The Ambassador Program...

From Kousha Davoudi: The Ambassador Program is part of the Director of Industry office of the NSC and the quarterly meeting was held at Grumpy's in Minneapolis. We had quite the agenda; everything from planning a Networking Event: ***SE Socializing East of the Mississippi*** to discussion about leveraging our Corporate Advisory Board (CAB) Members to promote SE and INCOSE inside their organizations. We reviewed the Ambassador Plan and the objectives:

- ✓ Bring a new person to at least 2 meetings.
- ✓ Each ambassador to attend at least 3 meetings per year.
- ✓ Each ambassador to recruit 2 new members per year.
- ✓ Minimum of 1, goal of 2 new CAB members.
- ✓ Create supporting materials for potential members.
- ✓ Getting acquainted so ambassadors know each other.
- ✓ Review and discuss the new ambassador program for the upcoming year.
- ✓ Review program and plans for coming year.
- ✓ Brainstorm and solicit new ideas to benefit the program.
- ✓ Help plan tutorials (dates, subjects, venue, etc.)

If you have any interest in the joining us or know of someone with a keen interest, get in touch with us by clicking on [**Ambassador Program.**](#)

Membership Chair...

From Roz Dolid: We are looking for a Membership Director for 2018, if communicating and networking is your "thing" or if you're interested in growing in this area, contact Roz or any of the current board members to find out more about joining the team.

Our products and environments are becoming more complex. System thinking and engineering can help you to manage this ongoing complexity. INCOSE is a community that is passionate about looking at challenges from a systems perspective. Whether it's a discussion, a tool, or methodology, we are the go-to- resource for systems best practices.

Our local Minnesota Chapter is a vibrant community representing the diverse industries that we have in the Twin Cities—biomedical, industrial, materials, 3D printing, defense, just to name a few. We offer monthly [**free Membership Meetings**](#) and bi-annual **Tutorials** where we explore current topics and [**SE Best Practices**](#) to help you and others in your organization to become the best **SE Practitioners** we can be. Our monthly Leadership meetings are open to active members—[**let us know if you have an interest.**](#)

The Academia Program...

From Dan Stone: In the world of Academia and Outreach, the past few months have been focused on preparation for GLRC11. The North Star Chapter and GLRC11 Committee are looking forward to - for the first time at a GLRC conference - showcasing local STEM organizations and programs from around the Twin Cities area. The STEM showcase will take place on the evening of Thursday, October 12th, from 5:00 to 7:00 PM in advance of the dinner banquet, and will feature a number of local STEM competition teams and programs.

We are going *CURLING* for our Christmas Party!

**Save the Date! December 2,
2017**



Sticks and Stones, Blaine Curling, Food and Fun

For Upcoming Chapter Events Please Go to the [North Star Chapter Website](#) ...

New Chapter Members and Certifications

Certifications Congratulations!

CSEP: Rebecca Haag ; Medtronic, Sr Systems Engineer

ASEP: Angela Robinson; Contractor for Medical Technology, Principal Systems Engineer

Welcome New Members!

RANDALL APPLETON is a Systems Engineer with BAE Systems.

CHRIS BRINKLEY is a Systems Engineer with Orbital ATK.

JOHN CHACHA is a Systems Engineer with UTC Aerospace Systems and he is busy. He is calling all professionals who've taken a career break! UTC is launching the Re-Empower Program to get you back into the workforce. In partnership with the Society of Women Engineers and iRelaunch, Re-Empower is a paid 16-week session to recruit mid-career professionals who've taken a two-year or more break from the workforce.

JAMES FAHIE is a Systems Engineer in Abbott Laboratories.

JORDAN HARTMANN is a Senior Systems Engineer with Nonin Medical Inc. He works to increase the quality of medical devices through the application of systems engineering techniques. I also am a standards architect for international medical device communications through the Bluetooth SIG, Continua Alliance (now PCHA), and the IEEE Personal Health Devices standards bodies.

KARA JOHNSON is a Senior Software Test Engineer with Abbott Laboratories.

JOSH MAUNEY is a Systems Engineer Saint Mary's University of Minnesota.

ANGELI SAWHNEY is a Principal Systems Engineer in Abbott Laboratories.

WESLEY SCHWARTZ is a Systems Engineer with UTC Aerospace Systems ADS Systems Engineering.

The NSC Thanks Its Meeting Sponsors!

Beckman Coulter

Join us on LinkedIn, **INCOS North Star Chapter**



11th Annual INCOSE Great Lakes Regional Conference

**SUPERIOR SYSTEM SOLUTIONS FOR
TODAY'S COMPLEX ENVIRONMENTS**

11 - 14 October 2017 | Twin Cities, Minnesota

Register now for INCOSE Great Lakes Regional Conference

Hosted by the North Star Chapter

October 11-14, 2017 in Minnesota

Featured speakers

- INCOSE President-Elect Garry Roedler
- INCOSE Past President David Long will be giving the Sigma Theta Mu lecture

The North Star Chapter is proud to offer its fall tutorial sessions as part of GLRC11. Full day and half-day tutorials are available Wednesday and Saturday. These tutorials are offered at a cost, or, they are FREE for GLRC11 attendees.

Tutorial topics include:

- Creating a Systems Literate World
- Emerging issues in Application of MBSE
- Uniting the Methods of Agile Development and Systems Engineering
- Beginners SysML Overview
- Effective Communication and Analysis in the Age of MBSE

See the full technical program for more details <http://www.incose.org/glrc11/program>

More highlights of the program include

- A thought-provoking presentation about looking towards nature, and the nature of organic things and organic systems, for tackling complexity and Systems Engineering.
- A presentation from a Systems Engineer describing the nature of the causes of the Columbia shuttle disaster – relevant to developers, managers, testers
- Complex technology trends
- Arguing for software safety

Don't forget

Volume 14, Issue 3; Quarter 3, 2017

- Take the INCOSE CSEP/ASEP Exam on Saturday, 14 October, FREE for GLRC11 attendees

Register now! <http://www.incose.org/glrc11/attendees/registration>
Follow conference information on the GLRC11 website www.incosegreatlakes.org.

On the International Front...

IW 2018, INCOSE kicks off each year with its annual gathering of the membership to discuss and advance the state of the art of systems engineering. Spend several days of intense activities centered around technical content with volunteers who meet electronically during most of the year. This is the time to collaborate and celebrate in person. The prestigious Working Group Award winners are named at IW, as is the recipient of the Johns Hopkins INCOSE scholarship; and, newly elected officers and directors are installed. The gathering is capped off with an annual INCOSE Foundation Wine Tasting to raise money for Foundation activities.

Join us at the [IW 2018 Workshop](#)

- **Date:** Jan 20, 2017 - Jan 23, 2017
- **Location:** Jacksonville, FL, USA
- **Venue:** Hyatt

Learn more about what we can do. Click for the [Q3 2017 INCOSE Members Newsletter](#)

JOIN THE OFFICIAL INCOSE LinkedIn Group

<http://www.linkedin.com/groups?gid=7499834>

Or

INCOSE FACEBOOK

<https://www.facebook.com/groups/INCOSE/>

and Twitter at

https://twitter.com/incose_org

Please visit us at [North Star Chapter](#) to find out what is going on in the Twin Cities and surrounding area.

Join a Working Group TODAY!

INCOSE working groups are a great place to meet individuals who are looking to overcome similar challenges. These groups often span multiple regions and industries, so we can really look at these topics in a broad, informed way. In the North Star Chapter, we have several members Chair/working in different groups like the Measurement, SE in Very Small Enterprises (VSE), Handbook as well as others. There are many topics to choose from. Finding the groups and joining is easy! To join any working group:

1. Login to your account at INCOSE.ORG
2. Click on the "Profile Home" link at the top of the page.
3. Scroll down to "My committees/Working Groups and click on the link "Browse/Join a Working Group"
4. This will result in a list of Working Groups under the header Committees. (The terms are interchangeable)
5. Scroll down until you see find a committee that you are interested in. Click the link and then on the right click on the (view) link.
6. This will result in a roster of current WG members.
7. Scroll down to the bottom of the list and under "Committee Tasks" click on "Join this Committee"

Working groups are a great way to learn more about a subject, grow your network, and share your knowledge about a subject.

