



NORTH STAR  
Systems Engineering

# The Integrator

## North Star Chapter of INCOSE Newsletter

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First Quarter 2018

### Chapter News

#### ***The President's Corner...***

President's Corner:

Welcome to Spring! Well, almost. If the snow would just melt already...

North Star Chapter has a lot going on this year, please consider joining us and getting more involved in the organization! To recap 2018 so far, we had a really interesting presentation about autonomous vehicles at VSI in St Louis Park in January, we attended the MFESTS E-week celebration hosted by Smiths Medical in February, and in March we will hear about Cybersecurity from a local FBI agent. Several North Star members also attended the International Workshop (IW) in Jacksonville, FL in January – this was my first IW and it was impressive. It's more like a giant meeting than a conference, where INCOSE members from all over the world who are active in working groups get together to have in-person meetings to move their working group agenda forward.

We had an Ambassador program meeting on March 22 at Grumpy's on Washington Ave – this is a lively group, dinner is provided, and conversation runs deep while we strategize about growing membership and ways to better serve the needs of a growing and changing membership. If you are interested in being an INCOSE ambassador for your company, please join us!!! In April there will be a leadership meeting on the 5<sup>th</sup> when we will finalize planning and budgeting for the year. Leadership meetings are open to members. From the 10<sup>th</sup> to the 12<sup>th</sup> we staffed a booth at the U of MN's Design of Medical Devices conference exhibition, for which a few more volunteers would be gladly accepted. On the 12<sup>th</sup> we had a presentation and tour at Century College's Fab Lab. On the 19<sup>th</sup> and 20<sup>th</sup> NSC is collaborated with the Biomedical Working Group to help host their annual conference here at the Crowne Plaza AiRE in Bloomington.

The Spring Tutorial "Emotional Intelligence: Key to Career and Life Success" will take place on Friday, May 4<sup>th</sup> from 8:30am – 4:30pm, worth 6 PDUs. Our summer social will take place on Saturday, July 14, with a ride on the Steamboat Minnehaha on Lake Minnetonka with a Brewery tour and dinner after the boat ride. More details will be coming out soon.

Roz Dolid,  
North Star Chapter President 2018

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## ***Where We Have Been...***

### ***January 18th Meeting, SAE Twin Cities Section & INCOSE North Star Chapter VSI Labs***

VSI was established in 2014 to provide industry with deep insight and analysis on the enabling technologies used for active safety and automated driving. Today, VSI is considered one of the industry's top advisors by supporting R&D & planning departments within major automotive and suppliers worldwide. VSI's lab activities support a thorough decomposition of AV technologies through hands on development and buildup of its own automated vehicle platform. VSI also conduct functional validation of critical enablers including sensors, domain controllers, and AV software development kits.

#### **Presenters:**

**Phil Magney**, Founder and Principal Advisor:



Phil Magney is an automotive executive with over 25 years experience in automotive electronics, active safety systems, automated vehicle systems and telematics. He is the Founder and Principal Advisor of VSI Labs, the leading global researcher and advisory firm on autonomous vehicle technologies.

**Danny Kim**, Director, Advisory Services:



Danny Kim is the Director & Senior Advisor at VSI Labs, the leading global research and analyst firm for autonomous vehicle technologies. He is responsible for everything from leading custom project management, business development & client communications, authoring technology analysis and market forecasting and product development/enhancements.

### ***February 18th Meeting, MFESTS Engineering Celebration 2018 – Engineering Around The World***

#### ***March 15th Meeting, Cyber Security Awareness from the FBI Perspective***

**Cyber Security Awareness** from the FBI perspective. We will learn something of the world of cyber security threats, what concerns the FBI are focusing on and what the federal government is doing about it.

#### **Presenter**

**Special Agent Lizabeth Lehrkamp** entered on duty with the FBI in February 2005 and was assigned to the Newark field office where she investigated Organized Crime and then moved on to investigating Cyber crime. In September 2010, Liz was transferred to the Minneapolis field office and was assigned to the Human Intelligence squad working cyber matters. In May 2011 Liz took over as the InfraGard Coordinator for the Minnesota, North Dakota and South Dakota Chapters. In September 2016 Liz moved to a Counterterrorism squad. Liz received her Bachelor of Science in Mechanical Engineering from Clarkson University and is a member of Society of Women Engineers. Prior to her appointment with the FBI, Liz was employed in technical sales and application engineering.



# Welcome New Chapter Members!

**JOSEPH AKYEAMPONG**, of Medtronic. Joseph is on a mission to contribute to solving the world's grand challenges using a systems thinking philosophy.

He has expertise in the areas of product development, human factors and ergonomics, and systems engineering. In his current role as a systems engineer, he supports systems engineering/product development activities from design inputs generation to verification and validation for spinal cord stimulation therapy.

He is a problem solver, critical thinker, creative writer, team player and leader.

**JOHN BLIX**, Director, R&D at Abbott. Lead R&D organization of over 140 team members supporting EP businesses. Led systems engineering, human factors, systems verification, software verification and catheter verification functions. Set strategic direction and manage development execution for the Haifa, Israel R&D Center.

**RANDALL DODSON**, of Boston Scientific. Randall has expertise in System Engineering/Design Studies, High-Speed Digital Design, Embedded System Design, Digital Signal Processing, Microprocessor System Design, Hardware/Software integration, Analog Design, Team/Group Project Lead. Specialties: Complex digital design.

**MELISSA GROSE**, Mechanical Engineer, R&D at Cantel Medical. She is an experienced engineer with a demonstrated history of working in the medical and industrial engineering industry. Skilled in New product instrument development, Regulated applications, Verification and Validation (V&V), Computer-Aided Design (CAD), Feasibility Studies, and Sustaining engineering. Strong information technology professional with a Masters of Science focused in Mechanical Engineering from University of Minnesota-Twin Cities.

**JARED HANSEN**, of Minnesota State University Mankato.

**NATE HENDERLITE**, of Beckman Coulter Diagnostics. Jared is highly motivated, adept and adaptable Systems Engineer with experience in design, systems integration, requirement characterization and verification, and system support, seeking employment.

**MARTIN MASTERS**, Principle Product Development Engineer at Boston Scientific PI (Possis Medical).

**STEVE PRICE**, at the University of St. Thomas.

**JOHN RUSSELL**, welcome John.

**GABE SELINGER**, is a Senior Electrical Test Engineer at Smiths Medical. He is process driven and a big fan of well-established rules, regulations, and processes. When these are lacking, he has had success at getting them implemented. When the team knows everyone is working to the same standard, you can concentrate on getting the job done. Gabe is also open to new opportunities, but not willing to relocate. Potential positions must be in or near Minneapolis MN area.

**JOHN STAGER**, at the University of St Thomas.

**TOM WENTWORTH**, is a Systems Engineer I at Smiths Medical, Minneapolis, Minnesota.

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Join us on LinkedIn, [INCOSSE North Star Chapter](#)

# On the International Front...

## Join us for the 28th Annual INCOSE International Symposium

### What?

INCOSE's Annual International Symposium is the largest annual gathering of people who do systems engineering for four days of presentations, case studies, workshops, tutorials and panel discussions. The program attracts an international mix of professionals at all levels, and includes practitioners in government and industry, as well as educators and researchers.

### Why?

Engage with your colleagues from the Systems Engineering community!  
Learn about state-of-the-art methods and essential skills for Systems Engineers.  
Find out how people are making a difference with Systems Engineering.

Learn more about what we can do. *Click for the Q1 2018 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](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](http://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.

