



NORTH STAR
Systems Engineering

The Integrator

North Star Chapter of INCOSE Newsletter

Volume 15, Issue 4

Fourth Quarter 2018

Chapter News

The President's Corner... Meet the New Officers...

Office of Secretary: Roz Dolid



From my experience as Membership Director, President-elect and President I'm well aware of the types of communications that come out of the Secretary's role and I have good grasp of what this position entails in order to keep NSC running smoothly. During the 2018 calendar I will have attended all Chapter and Leadership meetings. Barring any unforeseen changes in employment I believe I can continue this pace of meeting attendance based on the fact that I travel very little for work at this time.

Office of Director of Industry: Venkat Parameshwaran



I have been an INCOSE member since 2014 and Participated in several ambassador meetings and activities. I have Volunteered for GLRC11 as part of the core team, attended and presented at GLRC10 in Michigan.

I have arranged several monthly presentations by providing appropriate contacts to the board/meeting committee for follow-up. Arranged a few monthly presentations with SAE

Over the past year or so I have participated as an ambassador and feel that I should take up the role of Director of Industry.

What I like about INCOSE North Star is the interactions with members and industry and I hope to push the agenda of INCOSE North Star and drive membership by interacting with current and prospective members.

Roz Dolid,
North Star Chapter President 2018

Where We Have Been...

October 11th Meeting, MTS Systems Corporation Presentation and Tour

Industry-Leading Testing and Sensing Solutions

Researchers, product developers and manufacturers worldwide rely on **MTS Systems Corporation** to provide industry-leading testing and sensing solutions.

Volume 15, Issue 4; Quarter 4, 2018

Their products, services and unrivaled expertise allow customers to develop higher-quality products faster and more efficiently, optimizing the performance and reliability of everything from automobiles and aircraft to bridges and buildings to construction equipment and more.

Working closely with innovators in industries from energy and aerospace to mobile hydraulics, biomedical devices and civil engineering, MTS forges partnerships that produce pioneering technologies and redefine precision and control.

MTS History and Future...



Solving a dirty problem!



The attendees had fun!



November 19th Joint Meeting with PMI-MN, Healthcare Delivery for 2025

With What We Know Now, Can We Predict A Community Healthcare Delivery Model 5 To 10 Years Out?

This panel explored a healthcare delivery problem space, with what we know now, using Project Management and System Engineering allied concepts, realizing a vision that included the active engagement of industry, academia, and government. Using a combined skill set as well as skills unique to each organization, we will attempt to navigate what a Healthcare Delivery System may look like in 10 to 15 years. The Project Management and Systems Engineering Alliance as it can be applied to healthcare and its delivery is the challenge for this panel in this joint meeting. The panel led

discussions and exploration of a feasibility model that can predict the future of healthcare delivery. They explored the complexity of identifying the right stakeholders and defining the problem space of healthcare delivery with an introductory presentation, **The Future of Healthcare through a Systems Approach**, previously presented by Alan Ravitz PE, PhD, Chief Engineer, National Health Mission Area, Johns Hopkins University.

Welcome New Chapter Members!

RYAN AUGUSTINE, of Mar Cor Purification (Cantel - Life Sciences). Ryan is a Mfg Engineer at Mar Cor Purification, a Cantel Medical Company which provides water purification systems and service to medical, pharmaceutical and other bacteria-controlled applications. Mar Cor additionally provides filtration/separation and disinfectant technologies to the medical and life science market through a worldwide distributor network.

JEFF BARNES, of Digi International, Inc. Jeff is a Test Engineering Manager who as a Systems engineer, developed new product production transition specialist and design/proof-of-concept architect with over 15 years of experience providing embedded hardware and software services to customers. A principal engineer at Spectrum (now Digi Wireless Design Services) and pioneer in m2m/IOT solutions providing rapid development, certification and production of cellular, wifi, bluetooth, zigbee and many other RF based designs. Instrumental in the complete development and production life cycle of dozens of connected products for clients of all sizes from startups to fortune 500 in both regulated and non-regulated industries. Find him on LinkedIn, [Jeff Barnes](#).

ERIK BROM, of BCS-AIS. BCS Automotive Interface Solutions (AIS) combines the experience of a long-standing automotive supplier with a history of almost 70 years and 5,650 employees globally with the excitement of a newly established business based on the recent move to become a standalone company. Read the whole story of our early beginnings, our position today and our vision for the future.

MICHAEL BURR, of Digi International, Inc. Michael is a Lead Software Engineer at Digi. Digi International (Digi) is a leading global provider of mission-critical and business-critical machine-to-machine (M2M) and Internet of Things (IoT) connectivity products and services. Digi helps their customers create next generation connected products and deploy and manage critical communications infrastructures in demanding environments.

CRAIG CAMPBELL, of MTS Systems. Craig is a Sr Mechanical Engineer at MTS Systems. Researchers, product developers and manufacturers worldwide rely on **MTS Systems Corporation** to provide industry-leading testing and sensing solutions.

WILLIAM CHAVEZ, of BCS-AIS. Willian is a Principal Product Engineer (Software).

MATTHEW FUHS, of Boston Scientific. Matthew is a Sr. Systems Engineer.

CHARLES GERVAIS, of LGC BioSearch Technologies. Charles is a Product Specialist. His goal in life is to make the world a better place. He believes his role at LGC allows him to achieve just that. LGC continues to develop innovative, paradigm shifting technologies that allow laboratories around the world to lower their costs and significantly improve their molecular programs. These improvements will ultimately lead the world to a better food supply, better health, better medicine and overall better quality of life.

He is proud to be a member of this team and is confident that he is making a positive difference in the world today. Find him on LinkedIn, [Charles Gervais](#).

DAVID HEIDEN, of Beckman Coulter. David is a Systems Engineer in New Product Development. Skilled in Medical Device Service, Technical Troubleshooting, Problem Solving Process, Biomedical Engineering, Technical Writing, and Leadership. Strong engineering professional currently earning a Master's degree focused in Systems Engineering from University of St. Thomas. Find him on LinkedIn, [David Heiden](#)

MATTHEW JOHNSON, of Northrop Grumman Corporation. Matthew is an Associate Systems Engineer. Northrop Grumman is a leading global security company providing innovative systems, products and solutions in autonomous systems, cyber, C4ISR, strike, and logistics and modernization to customers worldwide.

THOMAS KILINSKI, of MTS Systems. Thomas is a Senior Engineering Manager – Systems Engineering, Analysis, Material Science, CAE/CAD and Engineering Records Control. He is a design and development leader with over 20 years' experience including technical/engineering management, mechanical and systems engineering, project management, manufacturing, and marketing. Recognized for ability to assemble and develop cross-functional team collaboration and success in the design and manufacture of limited-run or one-off custom systems for both government and commercial customers. Experienced with world-wide customer base including; North America, Asia, and Europe. Find him on LinkedIn, [Thomas Kilinski](#).

CHONG LEE, of General Dynamics Mission System.

MARTIN LIESER, of Tennant. Martin is a Senior Systems Engineer. Martin is a thorough, reliable, and driven professional with over 10 years of experience and strong technical acumen, project management and cross-functional collaboration skills. Possess leadership, strong attention to detail and ability to clearly communicate both technical and practical product information with cross-functional teams and customers. Find him on LinkedIn, [Martin Lieser](#)

SCOTT MILLER, of BAE Systems Minneapolis.

MATT NORDEEN, of Digi International, Inc. Matt is a Lead Hardware Engineer. He has a proven history in security industry and Information Technology (IT) industry. Skilled in hardware architecture, EMC design, wireless design, including ISM-band, WiFi, LTE, 3G, Bluetooth, and Zwave, design for manufacturing, PCB design, Application-Specific Integrated Circuits (ASIC), and test. Maximize RF range and performance while meeting cost targets, project timelines, and DFX requirements. Team player that enjoys exploring possibilities, listens to others, and avoids mistakes by taking time needed to make right decisions. Find him on LinkedIn, [Matthew Nordeen](#).

BHANUCHANDER REDDY POREDDY, PH.D., of Medtronic. Bhanuchander is a Principal Reliability Engineer at Medtronic. He is an experienced Systems/Reliability/Quality professional with 10+ years of system reliability and quality engineering experience in the medical device and defense system industries. Find him on LinkedIn, [Bhanuchander Reddy Poreddy, Ph.D.](#)

MANDY SACK, of General Dynamics. Mandy is a Software Engineer.

MANOJ SAMGHARSHANAN, of Optum Technology.

JOHN SAUCIER, of Cantel Medical. John is a Principal Engineer at Mar Cor Purification, a Cantel Medical Company which provides water purification systems and service to medical, pharmaceutical and other bacteria-controlled applications. Mar Cor additionally provides filtration/separation and disinfectant technologies to the medical and life science market through a worldwide distributor network.

BRAD SCHULZ, of MTS Systems Corp. Brad is a Strategic, Visionary Product Development Leader. He is a leader who builds, mentors and inspires talented teams of experts to deliver products that make the world a better place. He can rapidly learn complex systems and technology portfolios and then translate that learning into strategic architecture plans and innovative product designs that outpace global competition across a range of industries. He is unique in his ability to produce differentiated products through novel inventions and optimization of form and function, proven by 21 patents across hardware, software and industrial design domains. Find him on LinkedIn, [Bradley Schulz](#).

DAVID STEIN, of Beckman Coulter, Inc. David is a Staff Software Engineer and a TSP Coach. He is a dedicated, hands on software project manager (PMP certified) with a track record of successful projects. He has led a 25-member team that delivered a thin client/data warehouse software system. He has received major company award for key role on a Six Sigma DMAIC process improvement team that saved over \$2M. David led multi-department workshops resulting in the creation of software procedures that are compliant with the FDA's new medical device software standard (IEC 62304). He conceived of, architected and implemented a popular web application and server side database for the general public in less than 5 months. Find him on LinkedIn, [David Stein](#).

STEVE VESTAL, of Adventium Labs. Steve is a Member of Technical Staff. He has done research, development and education for embedded computing and software architectures. Steve has experience pursuing and winning government

R&D funding. He has published about 50 refereed papers and received 4 patents. Steve is experienced in developing and presenting graduate-level courses. Find him on LinkedIn, [Steve Vestal](#).

STEPHEN WELCH, of Digi International, Inc. Stephen is a Lead RF Engineer. Stephen's goal is to continue to develop experience in analog, mixed-signal, and digital circuit design. Find him on LinkedIn, [Steve Welch](#).

Learn more about what we can do. *Click for the [Q4 2018 INCOSE Members Newsletter](#)*

Join INCOSE on the Official



OR

Join INCOSE on the Official

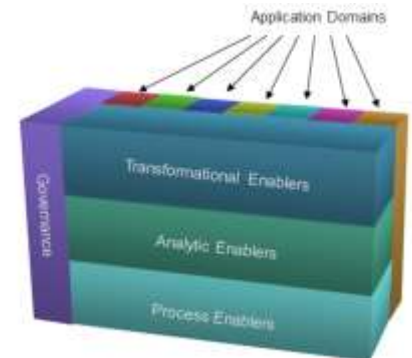


Follow us on



Keep your skill set current and keep up with best practices by joining 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 under your login at the top of the page.
3. Scroll down to **My Committees/Working Groups** on the lower left-hand side of the page 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.