

March Meeting Topics

Attendees:

Bob Hunter, Dan Stone, Dave Walden, Michele Zoromski, Phillip DiSalvo, Roz Dolid, Sean McCoy, Venkat Parameshwaran, RV Krishnan, Kousha Davoudi

Next Meeting is on June 28, 2018

Agenda:

- Health Care Working Group conference (April 19 – 20, 2018)
- Elections coming in Fall, time to elect the next Treasurer, Secretary, Director of Industry, President-Elect
- Spring tutorial
- Topics for Fall tutorial
- Event at UofM (Roz)
- Represent INCOSE at Science Museum of Minnesota. Do we need material to be able to give 10 – 15 minutes talk
- Monthly meetings
- New ambassadors expanding to other industries
- 2018 ambassador plan

March Meeting Topics

- Health Care Working Group conference (April 19 – 20, 2018)
 - In Crowne Plaza Bloomington
 - Banquet on Thursday (April 19th), 3 tracks for the conference
 - Send Conference announcement to ambassadors and promote
 - Like to have 80 participants
- Spring tutorial
 - One Day tutorial
 - Emotional Intelligence: The Key Factor to Career and Life Success
 - Email was sent on March 14th, Please promote this within your network
- Topics for Fall tutorial
 - Good time for Fall Tutorial is last week of October or first week of Nov.
 - GLRC12 will be in 2nd or 3rd week of October
 - Idea is to send a survey to choose the top three tutorial topics

March Meeting Topics

- Event at UofM

- April 9 – 12, in Graduate Hotel MPLS, we have a booth
- Reduce registration rate, \$200 for all 3 days
- Volunteers – Need volunteers for one hour in the morning and afternoon for all three days. Contact Roz please.

- Monthly meetings

- Venkat
 - 3M (Eric Larson)
 - Artificial Heart and Left Ventricular assist presentation
 - Electric Motor Design
- Phillip
 - Safety
- Joe Polmiter from PaR Eng. Robot for Nuclear incident, ping him

March Meeting Topics

- Represent INCOSE at Science Museum of Minnesota. Do we need material to be able to give 5 – 10 minutes talk as what systems engineering is.
 - Come up with a 5 – 10 minutes SE activity
 - Setup a table in SMM on some weekends
- Elections coming in Fall, time to elect the next Treasurer, Secretary, Director of Industry, President-Elect

March Meeting Topics

- New ambassadors expanding to other industries
 - Get a list of ASEP, CSEP to use for expanding the ambassador's team and contributing the community of SEs.
 - Get a list of companies that we need ambassadors from
 - Talk to Kim about membership directory
 - Offer PDUs for ASEPs and CSEPs
- 2018 ambassador plan
 - 2018 ambassador plan has been updated and ready for review by President.
- Set date for the next Ambassador meeting
 - Summer meeting was set on June 28, 2018

March Meeting Topics

- Summary of North Star Ambassador Plan
 - Share with ambassadors meeting and tutorial notices. Have ambassadors promote activities to their individual distribution lists.
 - 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.
 - **Discuss and publicize the INCOSE website as a means to collaborate with other members interested in systems engineering.**
 - **Encourage the use of INCOSE products (Metrics Guide, SE Handbook).**
 - **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)

This is a reminder for the Feb 14th Section meeting on "Artificial Heart Devices". The registration deadline is this coming Friday. Reserve your seat now!

ARTIFICIAL HEART AND LEFT VENTRICULAR ASSIST DEVICES

The idea of an artificial heart has captivated our imagination for a long time. In spite of tremendous progress, this ambitious goal has eluded scientists, doctors and engineers, so far. However, this quest has led to remarkable inventions, including left ventricular assist devices (LVAD).

This presentation will review aspects of artificial hearts and LVADs. We will look at the overall design considerations under competing priorities of durability, miniaturization and biocompatibility and the performance and limitations of both types of devices. The presentation will also review the design of subsystems such as energy converter and its control; blood pump and the valves; and power supply and energy transfer.

Speaker: Sourav Bhunia, PhD

Sourav received his PhD from the Massachusetts Institute of Technology in 1993 and Bachelor of Technology from the Indian Institute of Technology, Kharagpur in 1986, both in mechanical engineering. Since then he has been a scientist and engineer in the medical devices industry, developing an artificial heart, cardiac-assist devices, pacemakers, implanted cardioverter defibrillators, implantable and wearable biomedical sensors and hearing aids at Abiomed, Medtronic and Starkey. He has 10 US patents



INCOSE
International Council on Systems Engineering

“Why INCOSE” elevator speech

- Products today are getting more and more complex and also connected (think IOT, mechatronics , cloud etc.). Companies better be taking a systems engineering approach if they want to survive in this fast changing landscape. Don't know much about systems engineering? Then join INCOSE as it is THE PREMIER society for systems engineers. Systems engineers help you connect different domains and disciplines in your organization to design your product to meet multiple conflicting requirements. Learn from the international group of systems engineer experts at INCOSE and leverage the various handbooks, standards, working groups and best practices that INCOSE membership offers you. Network with fellow system engineers at monthly meetings and regional meetings in person and online and grow as a systems engineer.
- We need to have a picture with this speech and some explanation text.
- Name Three things that changes systems engineering from mechanical engineering. What information we should add that makes decision makers persuaded to go SE direction.
 - Mark's Wife is a graphic artist .