

SDSU Department of Aerospace Engineering Seminar

An Introduction to Systems Engineering and INCOSE

Greg Bulla, Abbas Rostami and Frank Lacson INCOSE San Diego Chapter

<u>Time and Date</u>: 11:00 am to noon, October 2, 2020 Join Zoom Meeting Link: <u>https://SDSU.zoom.us/j/92945147803?pwd=aVloK3Rvang3M0E3dU9pNmlMSSt0Zz09</u> <u>Meeting ID</u>: 929 4514 7803 <u>Passcode</u>: 460398

[Abstract] This seminar intends to foster the awareness of Systems Engineering and introduce the International Council for Systems Engineering Systems Engineering (INCOSE) to the SDSU community of faculty and students. Systems Engineering is an interdisciplinary field that offers systematic approaches to engineering and engineering management, focusing on how to design, integrate, and manage complex systems over their life cycles. Systems engineering cuts across all areas of sciences, including mechanical, electrical, information technology, aerospace, medical sciences, and many others.

INCOSE is a professional organization connecting systems engineers throughout the world. Approximately 17,000 members strong, INCOSE promotes the exchange of systems engineering knowledge and techniques to solve challenging problems across industry, government and academia. INCOSE has 74 chapters in 35 countries (42 in the USA), and over 50 specialized working groups covering a wide variety of interests, from Automotive systems and Space Systems, to Social Systems and Model Based Systems Engineering (MBSE). With numerous national and international presentations and conferences, educational, networking, and career-advancement opportunities abound. INCOSE also offers professional certification via their multi-level professional Systems Engineering Professional (SEP) certifications program.

The SDSU Department of Aerospace Engineering and the San Diego Chapter of INCOSE are planning to form an INCOSE student chapter at San Diego State University, with the intent of offering SDSU students and professors the opportunity to engage with the INCOSE systems



engineering community, and participate in Systems Engineering presentations and socials. In addition to promoting the awareness of the discipline of Systems Engineering, this seminar also intends to encourage SDSU faculty and students to get involved in Systems Engineering activities.

[Bio of the speakers] <u>Mr. Greg Bulla, 2020 INCOSE San Diego</u> <u>President</u>, has worked in software engineering and systems engineering domains for over 20 years. He currently supports the Naval Information Warfare Systems Command (NAVWAR)



Headquarters division in conducting technical systems engineering reviews of large DOD programs. Greg's professional software experience includes the planning, design and development of time-critical targeting software, intelligent software agents, and tactical radios, and has directly contributed to the following programs: U.S. Navy's Littoral Combat Ship (LCS), Global Command and Control System (GCCS), Distributed Common Ground System-Navy (DCGS-N), and a U.S. unmanned ship program. His education includes a Bachelor degree in Aerospace Engineering and Master's degree in Computer Science (from SDSU). He holds active INCOSE Certified Systems Engineering Professional (CSEP) certification.



Mr. Abbas Rostami, INCOSE San Diego Past-President (2019), is a Senior Systems Engineer and Architect with considerable experience in software engineering and development, System Architecture and Modeling, Business/Project Planning and Implementation. During his long career history, he has worked for defense and commercial industries with international settings including, Cubic Corp, SAIC, L-3 Communications, and Boeing Corp. He has extensive experience in requirements specifications and management, concept development, and the full System Development Life Cycle (SDLC). Mr. Rostami has developed

courses in Software Processes and Tools, Object Oriented Technology (OOT) and has taught at the National University (NU) School of Engineering and Technology, from 2001 to 2007. Since 2014, he has been participating in various startup activities to contribute to the new business modeling and strategic planning based on the Value Delivery Modeling Language. Mr. Rostami is providing technical services to Meaningful Evidence (ME) for research and implementation of an innovative Strategic Planning/Modeling tool based on the Integrative Propositional Analysis (IPA) concepts.



Mr. Frank Lacson, INCOSE San Diego President-Elect (2021),

is a Human Factors Subject Matter Expert (SME) at Kapsuun Group, LLC, with over 12 years of experience in conducting Human Systems Integration (HSI) for DoD projects and Programs of Record (PoR) for C4ISR and Enterprise Information Systems for the Naval Information Warfare Systems Command (NAVWAR, formerly SPWAR). Throughout his career, he has served as the end user advocate in Integrated Product Teams (IPTs), working closely with System Engineering, Logistics / Product Support, Software Engineers, Architecture, and Test & Evaluation. Competency areas include: User Experience, Human

Centered Design, and DoD HSI policy and Standardization. He has served in leadership roles with the Human Factors & Ergonomics Society (HFES), the User Experience Professionals Association (UXPA) Los Angeles Chapter, and the San Diego Smooth Dancers (a ballroom dancing organization). Mr. Lacson has a Master and Bachelor degrees from the University of Illinois, Urbana-Champaign. Frank also has a certificate in Systems Engineering from UCSD Extension.