

Thursday Evening Monthly Program – February 11, 2010

5:30 pm Board of Directors Meeting, Social Half-Hour and Snack.
6 - 7:00 pm Presentation followed by questions.



Place: Santa Clara University
Bannan Engineering
Building 404, Bannan Engineering Conference Room #230

Santa Clara University Campus Map Directions, including Transit information

<http://www.scu.edu/map/index.cfm?i=5> <http://www.incose.org/sfbac/Directions-to-SCU.html>

From the main campus entrance on El Camino Real in Santa Clara, CA, stop at the visitors entrance booth and ask for a "Visitors" parking permit. Say you are here for a meeting and that you are an invited guest of the Dean of Engineering. Park in the parking garage in the visitor's parking spaces or in any other available "Visitors" parking space.

If you have any questions about SCU, you may contact Campus Security at 408-554-4441.

Food Donation: FREE for members; \$4 for non-members.

For more information, contact:

Dave Mason, 408-742-0688, (david.mason@incose.org) or

Chin-An Cheng, 650-354-5913, (chinan.cheng@incose.org) or

Danny Hahn, 650-966-2107, (danny.hahn@incose.org) or

Dorothy McKinney, 408-742-8790, (dorothy.mckinney@incose.org).

For information about this mailing list please visit <http://www.incose.org/sfbac/mail.html>

The mission of the International Council on Systems Engineering (INCOSE), a non-profit professional society, is to "foster the definition, and practice of World Class Systems Engineering in industry, academia, and government."

The SF Bay Area Chapter presents thought-provoking monthly programs for its members and their guests. Learn about INCOSE at <http://www.incose.org>.



Speakers: Joseph A. Lavender

Principal Engineer

Lavender & Associates, <http://costengineeringsystem.blogspot.com>

Topic: Systems Engineering – Performance/Cost/Schedule Tool (SE-PCST).

SE-PCST is a revolutionary approach that simultaneously incorporates an over-all Performance Capability, Cost (Development and Production) and Schedule Duration (From Engineering, Manufacturing and Development (EMD) contract award to Initial Operational Capability (IOC)) at a Pre-Milestone A timeframe on the total program level. Focal point of the process is determination of the Performance Capability that is directly related to the specific engineering design, individual performance characteristics and innovations and new technologies for systems on a world- wide basis.

SE-PCST is a Systems Engineering Expert System methodology that is dependent upon algorithms, boundaries and rules. Design trade-studies can be performed at anytime during the development process with the fidelity increasing with better definition of the program and more advanced SE-PCST simulations.

Three SE-PCST simulations have been created to and validated (Air-superiority Fighter, Air Transport and Naval Surface Combatant and Submarines). A brief overview of each one shall be made that includes an assessment of future benefits and capabilities.

Advanced Radars, Air-to-Air Missiles, Gas Turbine Engines, Launch Vehicles, Manned Spacecraft and Satellites are some the program areas that can be supported by SE-PCST simulations.

Design engineers, system engineers, cost estimators, schedulers, program managers and executive management would be able to use SE-PCST simulations and should attend this presentation.

Biography:

Joseph Lavender has extensive experience in Cost Plus, Cost Incentive and Fixed Priced estimating, evaluation, and program execution in the Aerospace, Petrochemical and Energy Industries. Expertise in Cost Estimation, Cost/Scheduling Engineering, Design, Field Construction, Knowledge Engineering, Operations Research, Parametric Cost and Design Analysis, Predictive Intervals, Project Management and Engineering Algorithm Development.

Previous Employment:

Alyeska Pipeline Service Company, Boeing: North American – B-1 Division, Boeing: North American – RocketDyne Division, Boeing: North American – Space Division, Fluor Engineers and Contractors, Frank Moolin and Associates, Global Navigation Incorporated, McDonnell Douglas-Astronautics Division, Napa Expert Systems, National Energy Research Laboratory (NERL) formerly the Solar Energy Research Institute (SERI) and Standard Oil of Ohio (SOHIO)

Education: MS in Systems Management, BS in Aerospace Engineering, and AA in Viticulture and Enology

Author: Cost Engineering System for Aerospace and Military Programs (CES), © 2007.