



The System Engineering Process at Pratt and Whitney

Melvianne Cady of Pratt and Whitney Space Propulsion

The presentation addresses the way PW Space Propulsion has structured the Systems Engineering Organization addressing the importance of the disciplines of system engineering and their relationship to how the business is structured. This includes the relationship between systems engineering and Integrated Product Deployment. The presentation also delineates the four different systems engineering disciplines at P&W and the roles and responsibilities for each discipline.

Presenter: Melvianne Cady is the INCOSE Space Coast Chapter secretary. She has a BS in Systems & Controls Engineering from Case Institute of Technology. She worked for GE Re-entry & Environmental Systems as a Control System Engineer from 1972 - 1977. In 1977 Melvi joined Pratt & Whitney in West Palm Beach, Fl where she has held numerous positions in Systems Engineering including analytic systems engineer, operability engineer,

project engineer, and systems engineering manager in several organizations. She is currently the department manager of Product Development & Validation for Pratt & Whitney Space Propulsion Operations. Some of her accomplishments include:

- ?? Member of the team that installed the first all digital electronic control on a jet engine
- ?? Managed the development of the nozzle logic used to control the first two-dimensional vectoring/reversing nozzle mounted on F100-220 engine (Short Take-off, Landing and Maneuver Technology Program)
- ?? Prepared and managed comprehensive Performance, Operability and Functional Integrity Program Master Plan used as a management tool to direct the F119 Program
- ?? Responsible for defining, standardizing and implementing Product Development & Validation Procedures for Space Propulsion Organization.



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INCOSE Home Page: www.incose.org

Next meeting on Tues, June 10

<i>Tues, May 13:</i>	5:30 p.m. Social Half-Hour and Buffet Dinner 6:00-7:00 Talk followed by Questions. Networking and sidebars to 8 p.m.
<i>Place:</i>	Lockheed Martin Missiles & Space Operations , Sunnyvale, Bldg 157 Conference Room. Third & Mary (take the Mathilda exit of Highway 101) {Map on back. North on Mathilda, past the Blue Cube, and left on Third Ave. to parking lot at corner of Mary Ave. Parking is across the street from Building 157.}
<i>Donation:</i>	Attendance at this meeting is FREE for members; \$4 for non-members
<i>Registration:</i>	Lew Lee (Northrop Grumman), 408-531-2811. <i>E-mail</i> lew.lee@pacbell.net

Please Pre-Register to Facilitate Check-In

Note: To expedite entry, please bring a photo ID (Driver's License, etc.).

To expedite entry:

US Citizens (consultants or representatives of foreign governments, see below for additional instructions): Present a photo ID (Driver's License, etc.) at check-in.

Permanent Residents: Present a photo ID (Driver's License, etc.) and I-551 ("Green Card") at check-in.

Non-Resident Aliens, Consultants and Representatives of Foreign Governments: Submit a Foreign National Visitor form in advance, 12 working days (minimum) prior to the meeting. Contact one of the following:

Tom Jackson, (408) 742-2013, t.l.jackson@lmco.com or

Dorothy McKinney, (408) 742-8790, dorothy.mckinney@lmco.com

DIRECTIONS:

Hwy 101, North - exit at Mathilda. Proceed north on Mathilda to 3rd Ave. Left on 3rd to Mary.

Hwy 101, South - take Highway 237 exit to Mathilda. Follow instructions for Hwy 237 below.

Hwy 237, West or East - exit at Mathilda. Proceed north on Mathilda to 3rd Ave. Left on 3rd to Mary.

Highway 85, North - take Highway 237 exit to Mathilda. Follow instructions for Hwy 237 above.

Area Map to Sunnyvale, California



Bldg 157 is on the corner of 3rd and Mary Streets.

Lockheed Online Map:

http://lms.external.lmco.com/lms_images/lms_facility.pdf

