

The Aerospace & Defense Forum



Facilitating Business Communication, Collaboration, & Commerce

"Radically Reducing the Cost of Assemblies"

Guest Presenter:

Arthur (Art) Weiss  
former

Executive Director, Advanced Concepts,  
Rocket Shop  
Executive Director, Defense Advanced Programs  
Aerojet Rocketdyne

Wednesday, February 10, 2016  
South Bay Chapter Meeting

7:00am: Networking & Breakfast

7:30am-9:00am: Meeting



[Click here to register.](#)

Tickets are limited to 20 people on a first-come first-served basis.

Registration Fees:

- Free - A&D Forum member
- \$30 - Non-member Early Bird (until Feb 3)
- \$40 - Non-member (after Feb 3)
- Free - Guest (may guest 2 times)

You will receive multiple invitations, regardless of whether you have already registered. Please do not register more than once!

See meeting logistics information at the end of this e-mail.

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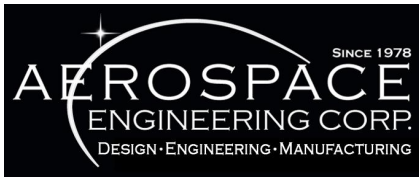
**The South Bay (CA) Chapter**

The South Bay Chapter serves the area around Torrance, CA. **Attendance at chapter meetings is now open to everyone.** The size of the room limits attendees to 20. Meetings and tours are on the 2nd Wed of the month.

[Click here](#) to join the South Bay Chapter mailing list (free).



**"Radically Reducing  
the Cost of Assemblies"**



## February 10, 2016 Meeting

- Attire is business casual.
- Parking is available in the parking lot in front of the building
- Please check-in on arrival at the conference room and provide your business card.
- Attire is business casual.
- A light continental breakfast and networking will be available starting at 7:00AM.
- Bring a business card - they will be duplicated and everyone be e-mailed a copy of all attendee's cards.
- Please place any marketing literature near the registration desk. Please do not distribute material during the meeting.
- Introductions will be minimal - your name, company, industry, and a 5 word "elevator speech". We encourage you to be creative!

Feel free to pass this invitation on to others you think would be interested.

### Event Info

**Wednesday, February 10, 2016**  
**7:00am-7:30am: Networking & Breakfast**  
**7:30am-9:00am: Meeting**  
**California Manufacturing Technology Consulting**  
**690 Knox St., Suite 200**  
**Torrance, CA 90502**

[Other A&D Forum](#)

Guest Presenter:

**Arthur (Art) Weiss**

former

Executive Director, Advanced Concepts,

Rocket Shop

Executive Director, Defense Advanced Programs

Aerojet Rocketdyne

Come learn about a new way of thinking about systems and design that can have a dramatic impact on the costs, delivery time, and reliability of your assembled products. One way of thinking about this new approach is applying the concepts (and benefits) of lean manufacturing (typically limited to part fabrication) to the level of assembly.

For over twenty years, Aerojet Rocketdyne has endeavored to change the fundamental way we think about product design and production in our industry. Based on the work of Dr. Deming, Dr. Taguchi, Russell Ackoff and others, we have evolved our body of thought into an approach called InThinking(TM) and are changing our design methodologies and procedures to incorporate these thought processes. When combined with other techniques such as Design to Cost and Advanced Manufacturing, a new integrated design capability emerges that promises to substantially impact our business through simplified, more rapidly developed, affordable products.

At the heart of integrated design is an understanding of the difference between Macro System Models and Micro System Models, or Mixed Model Management. While traditional design begins with a macro view of a proposed system and its functional requirements broken down to sequential individual parts, micro system thinking focuses on the interdependencies between the system elements, combining functions into integrated elements and balancing variation between the processes that will fabricate and assemble those elements. This can be summarized by "Mind the Gap."

Today's emerging advanced manufacturing techniques are critical to enabling this integrated design approach. Additive manufacturing already promises great strides in reducing the cost of fabricated piece parts, but there is even greater potential in its ability to expand the boundaries of integrated design. Some current examples of product lines that have

## Chapter Meetings

Times shown are local time.

**Tour of General Atomics UAV Flight Test Facility** in Palmdale, CA, Los Angeles Chapter, January 22 (sold out and registration closed).

**"From Rivets to Resin - The Present and Future of Aircraft Structures"**, Ben Hempstead, Mechanical Engineer Lead / Chief of Staff, ElectroImpact, Orange County Chapter, February 4 (webstreamed)

**Tour of Raytheon McKinney CMC**, McKinney, TX, Dallas - Ft. Worth Chapter, February 11

## Recently Posted Presentation Recordings on the A&D Forum Website

**"UK's Harwell Space Cluster: Why you need to be there!"**, Steve Ringler, Oxfordshire Space Cluster Development Manager, UK Science Technology and Facilities Council, Orange County Chapter, December 3

**"Aviation Provides a Roadmap for Where Space is Headed"**, John H. (Jay) Gibson, II, President, CEO, XCOR Aerospace, Inc., Dallas-Ft. Worth Chapter, December 10

**"The Super Supply Chain is Coming"**, Gavin Brown, Executive Director, Michigan Aerospace Manufacturing Association, Orange County Chapter, January 7

**"Solving Aerospace Challenges in Today's Global Environment: Bell Helicopter's R&D Strategy"**, Vincent D'Arienzo, Director of Bell Helicopter Engineering, Dallas-Ft. Worth Chapter, January 14

**"The Dynamic Business of Space"**.

been positively and dramatically impacted will be discussed.

## Guest Presenter



**Art Weiss** retired in April 2015 from Aerojet Rocketdyne after 41 years of service. His most recent position was Executive Director, Advanced Concepts, Rocket Shop(sm) responsible for developing innovative solutions and technology that lead to long term company growth. Prior to this assignment he led the transition from Pratt & Whitney Rocketdyne (PWR) into Aerojet Rocketdyne after United Technologies decided to exit the

space business.

Previous to that Art was Executive Director, Defense Advanced Programs, where he led the PWR Missile Defense business area for six years. He currently is Executive Vice-President and lead for Lean Squared<sup>lm</sup> at the management consulting firm Frontier Associates, Inc.

Art has been Program Director and led development of the RS-68 Booster Engine for the Delta IV launch vehicle, the Terminal High Altitude Area Defense Missile Divert & Attitude Control Propulsion System, the Lightweight Exo-Atmospheric Projectile kill vehicle, and several early development efforts including the Space Transportation Main Engine for the Advanced Launch System, support to the Lockheed Martin RD-180 Booster Engine for the EELV program, and RS-25 Booster Engine use in the McDonnell Douglas X-33 vehicle.

Art spent his first 13 years as part of the Space Shuttle Main Engine development team, set up and led the launch support team at the Kennedy Space Center for the first eight Space Shuttle flights, then led Flight Operations until the Challenger incident.

Art has a BS in Aeronautical Engineering from Purdue, is a member of AIAA and the National Management Association, and has received numerous company, NASA, and local San Fernando Valley Engineering Council awards.

Panelists from Space Micro Systems, Space Venture Holdings, Flometrics, & Vanguard Space Systems, San Diego Chapter, January 19

**The Aerospace & Defense Forum Website**

[AerospaceDefenseForum.org](http://AerospaceDefenseForum.org)

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