

The Aerospace & Defense Forum

Special Meeting at Pratt & Whitney Rocketdyne Los Angeles Chapter March 15, 2012

JMBM | Jeffer Mangels
Butler & Mitchell LLP

[Click here to attend in person](#)

Both members and non-members must register to attend. Attendees must be US citizens or hold a Green Card. All sign-ups must be done by March 7. Because of the pre-event screening required, no walk-ins will be allowed.

Only members can sign up before Feb 22. Non-members can sign up on and after Feb 22.

Registration Fees:

Free - A&D Forum member
\$30 - Non-member Early Bird until Mar 1
\$40 - Non-member after March 1

No WebEx Streaming for this Meeting

Because of the security restrictions of the Rocketdyne facility, there will not be WebEx live streaming of this meeting.

Become an A&D Forum Member

A&D Forum members attend any chapter



Pratt & Whitney

A United Technologies Company

Pratt & Whitney Rocketdyne

"A History of Rocketdyne"

plus

meeting for free, receive a monthly Newsletter, have first call on tours, and can access the website member areas, such as the Calendar, presentation recordings, articles, and What's New pages, among other benefits. One year Individual Memberships are \$250 and Corporate Memberships (3 Individual Memberships) are \$500.

Join through the A&D Forum website:
aerospacedefenseforum.org

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Contact [Ivan](#) to register or with questions.

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**"If Assembly is Required,
Mind the Gap, Not the Part"**

Guest Speaker: Bill Bellows
Associate Fellow
InThinking Network
[Pratt & Whitney Rocketdyne](#)

and

**Tour of
Pratt & Whitney Rocketdyne and Museum**

Summary

This special meeting will convene at the Pratt & Whitney Rocketdyne Museum in Canoga Park, full of historical rocket engines and components. The museum will be closing by the end of March, so this will be the last opportunity for a long while to see this unique material.

After a continental breakfast, the meeting will start at 7:30am with a short presentation on the history of Rocketdyne, followed by a presentation by Bill Bellows of a valuable enhancement to **lean manufacturing**.

After the meeting ends at 9:00am, attendees can wander around the museum, where there will be people to answer questions and explain the exhibits. Upon leaving, people can take a tour through the Rocketdyne offices, seeing some of the unique wall displays in the hallways.

The event will end at 10am.

As with all A&D Forum tours, A&D Forum Members will get first opportunity to sign up. On February 22 the tour will be opened to all US Citizens and those with a green card.

[Pratt & Whitney Rocketdyne](#)

Rocketdyne was formed by North American Aviation after World War II to study the German V-2 missile and adapt its engine to U.S. construction details. Its

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**Upcoming A&D Forum
Chapter Meetings**

February 15: "Making the Jump from 'Big Aerospace' to 'NewSpace'", Rex Ridenoure, co-founder and former CEO of Ecliptic Enterprises, Los Angeles Chapter

February 28: "Nuclear Terrorism--A Solution Utilizing Our Natural Environment", Dr. Gene W. Ray, co-founder and former CEO of The Titan Corporation, San Diego Chapter

March 7: "Grow Your Business by Expanding Aftermarket Services", Peter Collins, Director of Strategic Planning and M&A, Aerospace Group, Parker Hannifin, Orange County Chapter

What's New

A&D Forum members can access these documents from the What's New page

engines have powered the Atlas, Saturn I, Saturn V, and Space Shuttle. In addition to its primary business of building rocket engines, Rocketdyne has developed power generation and control systems. These included early nuclear power generation experiments, radioisotope thermoelectric generators (RTG), and solar power equipment, including the main power system for the International Space Station

In 2012 GenCorp Inc. entered into a definitive agreement to purchase Pratt & Whitney Rocketdyne from United Technologies Corporation, with the transaction expected to close first half 2013.

Pratt & Whitney Rocketdyne Museum

The Rocketdyne Museum, part of the Leadership & Learning Center, contains some of the actual engines and components used to develop advanced concepts and become part of well-known launch vehicles, the Space Shuttle, and the ISS. As part of the sale to GenCorp Inc., the existing Canoga Park facility will be moved. However, there are no plans for a similiar exhibit space at the new facility, so this may be the last time to see these unique devices for a long time.

Presentation: History of Rocketdyne

There will be a brief historical account of Rocketdyne, from its start in 1955 (on the same day that Disneyland opened) to today, with a short video to highlight its diverse products.

Presentation: "If Assembly is Required, Mind the Gap, Not the Part"

In the late 1960's, Frank Pipp, an assembly plant manager for an American automobile company, instructed his team to purchase competitor's cars. His plan was to have the final assembly team disassemble these cars and learn first-hand how they assembled. At that time, if two connecting parts could be assembled in Pipp's plant without the use of a handy rubber mallet, then these parts were known as "snap fit". In Pipp's experience, snap-fit was a rare occurrence. To his amazement, one competitor's car was discovered to be 100% "snap fit", for which his division GM replied, "The customer will never notice."

Slowly, but surely, customers have noticed the assembly and performance results that Pipp's team found in 1969, when they first examined a Toyota pickup truck.

Fast forward to 2013, when the assembly and performance advantages of 100% snap-fit hardware have

(under the Resources tab) of the A&D Forum website.

2/12/13: "Donation Funds Aircraft Mechanic Program",

2/11/13: "2013 Outlook on Aerospace & Defense Interview with Tom Captain"

2/9/13: "Relax! You'll Be More Productive" Paradoxically, the best way to get more done may be to spend more time doing less.

2/9/13: Astronomers ask public to help name Pluto's new moons.

2/7/13: \$100 Travel Credit available for Additive Manufacturing Forum on March 20, 2013.

2/7/13: "The Ripple Effect How manufacturing and retail executives view the growing challenge of supply chain risk"

2/6/13: "Reliance Steel Makes Biggest Acquisition Ever"

2/6/13: "L.A. airports panel approves moving runway closer to homes"

2/6/13: "Departing Space Station Commander Provides Tour of Orbital Laboratory",

2/5/13: "Is Boeing's 787 Battery Design Flawed? Ask Elon Musk",

2/4/13: "Air Lease Makes Large Airbus Purchase"

2/3/13: "Report finds LAX operators ignored requirements to disperse air traffic"

2/2/13: "Boeing Phantom Eye Debuts" (video).

1/30/13: "Herschel Finds Past-Prime Star May Be Making Planets"

Other Meetings

been demonstrated and replicated within Rocketdyne for over 15 years. They do so with an emphasis on "better thinking about thinking," which shifts attention from a traditional focus on parts to the gap between the parts and, thereby, how parts integrate.

Bill Bellows will provide a revealing explanation of how Rocketdyne has achieved this success, using ideas that stretch far beyond the traditional Lean and Six Sigma Quality approaches.

March 15, 2013 Meeting

- Only US citizens and Green Card holders may attend.
- You must sign up on or before March 7
- No cameras are permitted in the facility.
- Please check-in on arrival.
- Attire is business casual.
- [Click here](#) for **directions and parking instructions**
- A light continental breakfast will be available starting at 7:15AM.
- Bring a business card - they will be duplicated and e-mailed to attendees after the meeting.
- Flyers and other material may be placed on the table for that purpose for pickup before and after the meeting. Please do not distribute anything during the meeting.
- Because of the large number of attendees, introductions will be minimal - your name, company, industry, and a 5 word "elevator speech". We encourage you to be creative!
- The meeting will end at 9:00am. You are welcome to stay around and network, see the exhibits, and take the tour after the meeting.
- The event will end at 10:00am.

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

Event Info

Friday, March 15, 2013

7:30AM-9:00AM

Leadership & Learning Center

Pratt & Whitney Rocketdyne

6633 Canoga Avenue

Canoga Park, California

Our Presenter

A&D Forum members can access more information about these events on the Calendar page of the A&D Forum website.

February 16: "Error Prevention, Why Smart People Do Dumb Things and How to Avoid the Same Mistakes", INCOSE

February 21: "Lessons Learned in Utilities and Government Contracting", OC NCMA Meeting, Westminster

March 2: The Space Experience Economy #7 - Space Tourism Society, Los Angeles

March 2: 2013 Region 6 Public Policy Colloquium, Huntington Beach, CA

March 4: SpeedNews 3rd Annual Aerospace Raw Materials & Manufacturers Supply Chain Conference, Beverly Hills, CA

March 4-6: SpeedNews 27th Annual Commercial Aviation Industry Suppliers Conference, Beverly Hills, CA

March 16: INCOSE-LA Mini-conference, LMU

March 18-21: SME's Composites Manufacturing event, Long Beach, CA

March 19-21: AeroDef Conference, Long Beach, CA

March 12-14: Unmanned Aircraft Systems Symposium, San Diego, CA

March 20: Additive Manufacturing Forum, Livermore, CA

March 26-28: AIAA Policy Symposium: Civilian Applications of UAVs- A California Perspective, Westlake Village, CA

March 26: 2013 Aerospace, Defense & Government Services Outlook, La Jolla, CA

March 27: 2013 Aerospace, Defense & Government Services Outlook, Marina Del



Bill Bellows is an Associate Fellow in the InThinking Network at United Technologies' Pratt & Whitney Rocketdyne business unit in Canoga Park, California, where he is known for his efforts to provide insights to the advantages of thinking together, learning together, and working together. Audiences for his classes have also reached after-school program in elementary schools, graduate students at Northwestern University, as well as corporate, university, and public classes across the United Kingdom. Bill earned his BS, MS, and Ph.D. in Mechanical Engineering from Rensselaer Polytechnic Institute in Troy, NY.

Away from work, Bill serves as president of the In2:InThinking Network, and as a board member of the W. Edwards Deming Institute, and the Volunteers of America - Los Angeles chapter. He also serves on the editorial board of the Lean Management Journal. He lives in Valencia with wife, Monica, and their two college-aged children, Allison and Wilson.

The Aerospace & Defense Forum is a global aerospace and defense leadership community of over 600 that provides opportunities for sharing of information, current events, and analysis, mutual support and encouragement, partnering, innovation, and performance breakthroughs.

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