

The Aerospace & Defense Forum

Los Angeles Chapter April 19, 2013 Meeting

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[Click here to attend in person](#)

Both members and non-members must register to attend.

Registration Fees:

Free - A&D Forum member
\$30 - Non-member Early Bird until April 12
\$40 - Non-member after April 12

Please do not register more than once!

[Click here to attend via WebEx](#)

You can register to access the live Webinar stream through WebEx.

After completing and submitting the registration form, you will receive an e-mail confirmation from WebEx containing instructions for accessing the Webinar.



The Expanding Universe: Building Giant Telescopes

Guest Speaker:

Dr. Wendy L. Freedman

Crawford H. Greenwalt Chair
Director, [Carnegie Observatories](#)

WebEx facilities are provided by UKTI.

Become an A&D Forum Member

A&D Forum members attend any chapter 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. Free for those located outside Los Angeles and Orange County, CA.

Join through the A&D Forum website:

aerospacedefenseforum.org

Promote Your Business Be a Breakfast Sponsor

Promote your business to A&D industry leaders by being a Breakfast Sponsor. In return for paying for the direct costs of a chapter meeting breakfast, a Breakfast Sponsor's logo is displayed in all associated meeting notices and has a 5-min presentation at the sponsored chapter meeting.

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

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Astronomical discoveries have followed the development of new telescopes and instrumentation. In the last few decades alone, we have discovered over 800 new planets outside of those in our own Solar System, observed galaxies colliding and merging out to tremendous distances, and observed the entire universe to be expanding at an increasing rate, pulled apart by a cosmic force, unexplained by any of our current physical theories.

Wendy will describe how astronomical telescopes have led to our current understanding of cosmology - the universe on the largest scales. Astronomers have ambitious plans for this decade - with giant new telescopes planned for both the ground and space. She will describe an exciting new international telescope project -- the Giant Magellan Telescope (GMT), a project being led out of Pasadena, CA.

The Giant Magellan Telescope will have a 25m aperture comprised of seven 8.4m diameter mirror segments. It will be located in the Andes mountains of Chile, at Cerro Las Campanas. The GMT will have a resolution ten times that of the Hubble Space Telescope.

The first of the primary mirrors has been completed at the University of Arizona. The surface has been polished to an extraordinary accuracy of 20 nanometers (rms). The second mirror is being fabricated. An adaptive secondary mirror, composed of 3 mm thin mirrors and more than 7000 magnetic actuators will provide the forces needed to correct images distorted by the Earth's atmosphere at a rate of hundreds of times per second. Lasers will provide artificial reference points.

Wendy will give a current status of the GMT project, and discuss its exciting science goals.

April 19, 2013 Meeting

- Please check-in on arrival.
- Attire is business casual.
- Park in the building or for \$1/hour across the street at the Century City Mall
- A light continental breakfast will be available starting at 7:15AM.
- Bring a business card - they will be duplicated and everyone will get a copy of all attendee's cards.
- Flyers and other material may be placed on the

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Upcoming A&D Forum Chapter Meetings

April 4: "Unifying an Organization Through a Shared Vision", Jim Benkie, COO, Ducommun Incorporated, Orange County Chapter

April 25: **Linden Blue**, Vice-Chair. General Atomics, San Diego Chapter

Other Meetings

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

April 3: Aircraft Avionics Platform for the Consumer Market - 2013 Enterprise Program,

receptionist's shelf 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!
- You are welcome to stay around and network after the meeting.

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

Event Info

Friday, April 19, 2013

7:30AM-9:00AM

**Jeffer, Mangels, Butler & Mitchell
1900 Avenue of the Stars, 7th Floor
Los Angeles, California**

Our Presenter



Dr. Wendy Freedman is an astronomer and the Crawford H. Greenewalt Director of the Carnegie Observatories in Pasadena, California. A native of Toronto, Canada, she received her doctorate in astronomy and astrophysics from the University of Toronto in 1984. She received a Carnegie Fellowship at the Observatories in 1984, joined the permanent faculty in 1987, and was appointed Director in 2003. She currently also chairs the Board of Directors for the Giant Magellan Telescope (GMT), a 25-m optical telescope scheduled for construction in Chile in 2020.

In 2003 Dr. Freedman was elected to the National Academy of Sciences and in 2007 to the American Philosophical Society. She received the 1994 Marc

Microcosm Inc., Hawthorne, CA 90250

April 8-9: Asia/Pacific Business Outlook Conference, Los Angeles, CA

April 12: Yuri's Night at the Space Shuttle Endeavour

April 17: Global A&D Industry Insights - Outlook, Trends & M&A, ACG Los Angeles

April 24: 8th Annual Market Meets Market Expanding Boundaries: Strategies to Address Federal Market Realities, Houlihan Lokey, McLean, VA

The Aerospace & Defense Forum is a global aerospace and defense leadership community of over 645 individuals that provides opportunities for sharing of information, current events, and analysis, mutual support and encouragement, partnering, innovation, and performance breakthroughs.

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The Executive Steering Committee of The Aerospace & Defense Forum

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Aaronson Lectureship and prize; and in 2000, she was given the McGovern Award for her work on cosmology, and elected a Fellow of the American Academy of Arts and Science. In 2002, she was awarded the American Philosophical Society's Magellanic Prize. In 2009 she was one of three co-recipients of the Gruber Cosmology Prize. In 2012, she was elected a Fellow of the American Physical Society.

Her principal research interests are in observational cosmology. Dr. Freedman was a principal investigator for a team of thirty astronomers who carried out the Hubble Key Project to measure the current expansion rate of the Universe. Her current research interests are directed at measuring both the current and past expansion rate of the universe, and in characterizing the nature of dark energy, which is causing the universe to speed up its expansion. She is the Principal Investigator of a new large program to use the Spitzer satellite to measure the Hubble constant to an accuracy of 2%.

What's New

A summary from the What's New webpage of the A&D Forum website.

A&D Forum members can access these documents from the What's New page (under the Resources tab) of the A&D Forum website.

3/9/13: Save the Date: ACG Los Angeles: Global A&D Industry Insights - Outlook, Trends & M&A, Date: Wednesday, April 17, Location: California Club, Downtown Los Angeles, Time: 5:00 - 8:00pm.

3/2/13: "Cuts to Achieve Goal for Deficit, but Toll Is High"

3/1/13: "California Aerospace Industry Braces for Cuts"

2/28/13: Message From The Administrator: NASA and Sequestration

2/28/13: "Southland aerospace firms brace for defense cuts"

2/28/13: "Honeymoon to Mars? Multimillionaire makes proposal"

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Alan McIntosh, President, Verify, Inc.
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Davidson & Co.
Robert Jacobson, Desert Sky Holdings, LLC
Ivan Rosenberg, President & CEO, Frontier
Associates, Inc.

Quick Links...

The A&D Forum website
aerospacedefenseforum.org

2/28/13: "FAA presses on with Dreamliner review"

2/26/13: "County probes L.A.'s compliance on transferring LAX traffic"

2/24/13: RESOURCES FOR GOING GLOBAL: A list of upcoming U.S. Commercial Service initiatives designed to connect you to business opportunities around the world.

2/22/13: "Navy proposes establishing a drone center at Point Mugu"

2/21/13: The creation of the NASA Space Technology Mission Directorate.

2/21/13: "Reigniting growth: Advanced Materials Systems"

2/19/13: "Five Great Things You Must Do For Your Business"

2/18/13: "Northrop to Upgrade B-2 in Palmdale"

2/14/13: "Truth or Dare: How to Manage Global Supply Chain Risks?"

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

2/9/13: "Relax! You'll Be More Productive"

2/7/13: "Are You Prepared for the Next Gene"

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"

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

2/1/13: "New Management at Scaled Composites"

2/1/13: "Aerospace adapts to survive in O.C."