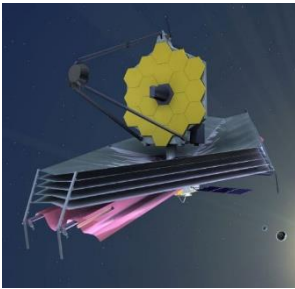


Tours of and Update on the James Webb Space Telescope

Dr. Jonathan W. Arenberg, Chief Engineer
Space Science Missions at Northrop Grumman Aerospace Systems



“The James Webb Space Telescope; Its Mission, Design and Development”

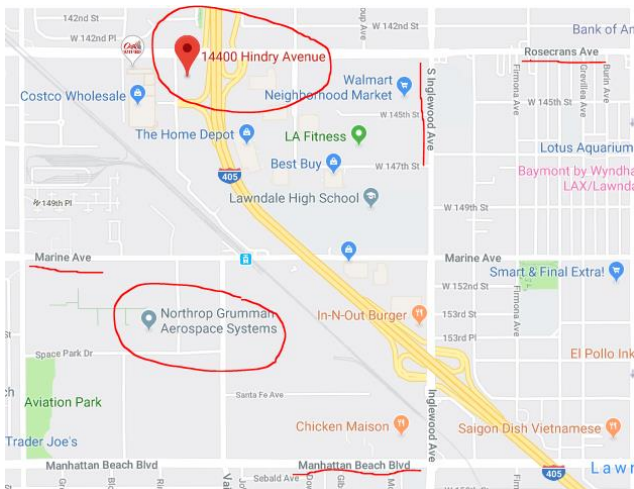
This talk introduces the James Webb Space Telescope, NASA’s next large astrophysics mission. Webb’s science goals; detection of the universe’s first light, assembly of galaxies, birth of stars and observation of planets and exo-planets are introduced. We will explore how the design responds to mission requirements and produces the performance necessary to achieve the mission’s goals. Many of the unique elements of the architecture will be explored. The main engineering challenges for largest telescope ever built in space are discussed and the role of materials highlighted. Finally, the current status of the hardware and path to launch will be given

Dr. Jonathan W. Arenberg is the Chief Engineer for Space Science Missions at Northrop Grumman Aerospace Systems in Redondo Beach, CA. He has over 29 years of experience working on astronomical programs such as the Chandra X-ray Observatory, development of the starshade, NASA’s James Webb Space Telescope and other mission concepts. He held several positions on Webb, in technology development, systems design leader, systems engineering manager and finally chief engineer. In addition to his work on astronomical systems, he has contributed to major high-energy and tactical laser systems, laser component engineering, metrology, optical inspection, technology development projects and the development of US national and international standards. He holds Bachelor of Science in physics, a Master of Science and PhD in engineering all from UCLA. A committed member of the scientific community, Dr. Arenberg is a long serving California State Science Fair Judge and is a referee for several journals. He is a fellow of the international optical engineering society, SPIE, for his contributions to astronomical and laser systems. He is the author of over 180 conference presentations, papers and book chapters and holds a dozen European and U.S. patents in a wide variety of areas of technology. Dr. Arenberg is also a short course instructor for systems engineering and has recent book SPIE press based on the class he teaches with his co-author.



JWST Tours at NGST: 5:00

Group Tours start every 20 minutes
Go To OSSC Website for map, parking,
and JWST Tour Registration
(unfortunately, Foreign Nationals no
longer permitted on tour of JWST)



Venue: Ayres Hotel

[14400 Hindry Avenue, Hawthorne](#)

Networking & Social Hour: 6:00;
Buffet Dinner: 7:00; Presentation: 8:00

Meal \$35 for members
(\$40 for non-members)
registered by 3 October,

\$40 for members
(\$45 for non-members)
registered after 3 October

\$10 for **OSSC** student members who register by 3
October, \$20 for student members who register after

Please Register by Thursday, 3 October 2019

Please post this notice and invite your friends & colleagues to attend!