Matthew Greenhouse, J Aeronaut Aerospace Eng 2015, 4:2
http://dx.doi.org/10.4172/2168-9792.C1.009

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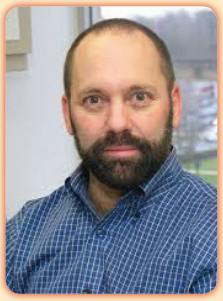
October 05-07, 2015 San Francisco, USA



Matthew Greenhouse

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James Webb Space Telescope program

The James Webb Space Telescope is the scientific successor to the Hubble Space Telescope. It is a cryogenic infrared space observatory with a 25 m^2 aperture telescope that will extend humanities' high angular resolution view of the universe into the infrared spectrum to reveal early epochs of the universe that the Hubble cannot see. The Webb's science instrument payload includes four cryogenic near-infrared sensors that provide imagery, coronagraphy, and spectroscopy over the near and mid-infrared spectra. The JWST is being developed by NASA, in partnership with the European and Canadian Space Agencies, as a general user facility with science observations to be proposed by the international astronomical community in a manner similar to the Hubble. The Webb's technology development and mission design are complete. Construction, integration and verification testing is underway in all areas of the program. The JWST is on schedule for launch during 2018.

Biography

Matthew Greenhouse has served on the James Webb Space Telescope Senior Staff as Project Scientist for the JWST science instrument payload since 1997. He specializes in infrared imaging spectroscopy, development of related instrumentation and technologies, flight project science, and technical management. He has served on several NASA and European Space Agency (ESA) flight mission teams. He supported ESA's Infrared Space Observatory mission as a Member of the Long Wavelength Spectrometer instrument team. He supported the NASA Stratospheric Observatory for Infrared Astronomy mission by serving on its Independent Annual Review Board as Co-Chair, and served on both its Interim Management Review Board, and Science Steering Committee. He supported the NASA Spitzer mission by serving on its Community Task Force as Legacy Science Program Chair and the Hubble Space Telescope Wide Field Camera 3 instrument project by serving on numerous gateway technical review boards. He has been a Member of the NASA Astrophysics Working Group, and has supported ground-based astronomy through Membership on the National Science Foundation Committee of Visitors, and numerous selection committees and review boards for major ground-based instrumentation.

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Notes: