

WEBINAR TALK : "APOLLO 13: LESSONS LEARNED FOR SPACE ENGINEERING"



**Date : 6th April 2024
(Saturday)
Time : 10.00am - 12.00pm
Venue : Zoom Platform -
Virtual**



*Presenter :
Fred Will Haise*



ORGANISED BY
Mechanical Engineering Technical
Division, IEM



CPD
BEM Approved CPD/PDP Hours: 2
Ref No: IEM24/HQ/064/T (w)



REGISTRATION FEES
IEM Students: Free
IEM Members: RM15 (Online) / RM20 (Offline)
Non-IEM Members: RM70



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Synopsis:

The Apollo 13 mission in April 1970, encountered a life-threatening crisis when an oxygen tank exploded, jeopardizing the crew's safety and requiring innovative problem-solving to safely return to Earth. Join Mr. Fred Haise, Lunar Module Pilot of Apollo 13, as he extracts crucial lessons from the mission for future space engineering endeavours. Explore insights into spacecraft design, mission planning, and crew training gleaned from the challenges and solutions of Apollo 13. From redundancy in design to effective communication protocols, attendees discover key principles vital for success in space exploration. Through this webinar, aspiring engineers gain invaluable guidance, inspiring innovation, resilience, and dedication in shaping the future of space exploration.

Speakers Biography

Fred W. Haise retired in 1996 as President of Northrop Grumman Technical Services (GTS). He began his career with Grumman in 1979, serving as Vice President, Space Programs, and later as President of the Space Station Support Division in 1987. Haise, born in Biloxi, Mississippi, on November 14, 1933, graduated with honors in aeronautical engineering from the University of Oklahoma in 1959. His extensive military experience includes serving as a US Marine Corps fighter pilot and instructing at NAS Kingsville, Texas. Haise logged over 9100 flying hours in various aircraft.

His 20-year NASA career commenced in 1959 at Lewis Research Center, followed by roles as a research pilot at NASA Flight Research Center and an astronaut at Johnson Space Center. Haise served as a backup crew member for several Apollo missions and flew as the Lunar Module Pilot on the aborted Apollo 13 Mission in 1970. He also commanded the Space Shuttle Enterprise for the Approach and Landing Test Program in 1977.

Haise's accolades include the Presidential Medal of Freedom, AIAA Haley Astronautics Award, and the NASA Distinguished Service Medal. He holds membership in prestigious aerospace societies and honor societies, such as AIAA, Society of Experimental Test Pilots, and Tau Beta Pi.



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