



A Public Lecture by: Mansoor Ahmed
(Associate Director NASA, Astrophysics Department)
FROM SPACE MISSIONS TO SPACE EXPLORATIONS
Organized by National Centre for Physics Islamabad
(14:00-15:00 on September 19, 2017)

Ever since the humans started to think, they have been curious about the heavens. Over the years, we have taken advantage of technological advances to gain better understanding of the universe. In some cases, this curiosity has propelled the technological advances that have been extremely beneficial in our daily lives as well. In this talk, Mr. Mansoor will discuss how our knowledge has expanded via space based astronomy with observatories such as Hubble Space Telescope and what we hope to learn with the James Web Space Telescope. This talk will further discuss the mysteries yet to be solved, missions yet to be achieved and the technological advances yet to be made. Mr. Mansoor will challenge the young generations of today to finding the answers to some the key questions for the humanity:

- **How does the universe work?**
- **How did the universe evolve from the "Big Bang" to what it looks like today?**
- **Where did we come from?**
- **Is there life beyond earth?**
- **Can humans inhabit other planets?**

Mansoor is currently serving as the Associate Director of the Astrophysics Projects Division as well as the Program Manager for the Physics of the Cosmos program and the Cosmic Origins program at NASA Goddard Space Flight Center.

Mansoor has spent most of his career in serving the Hubble Space Telescope (HST) program in different capacities, including the Flight Operations Manager and the Project Manager for HST operations. He has participated in all but one Hubble repair missions. During a short stint away from HST, Mansoor has served as the Mission Manager for the Compton Gamma Ray Observatory De-Orbit mission, the Deputy Project Manager for the James Web Space Telescope and as the Project Manager for the Laser Interferometer Space Antenna (LISA) mission, a collaborative endeavor between NASA and the European Space Agency with the goal to verify Einstein's theory of relativity by detecting gravitational waves generated by massive objects in our universe, as predicted by Einstein.

Mansoor grew up in Peshawar and studied in PAF College Lower Topa before migrating to the US in 1970. Mansoor has a B.S degree from University of Maryland and M.S. from George Washington University, both in mechanical engineering. He has received the NASA Group Achievement Award, 2001; the Goddard Space Flight Center Group Achievement Award, 1995; and the NASA Exceptional Service Medal, 1995. Mansoor has been a member of the US government Senior Executive Service (SES) in 2007.

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Who Can Participate:

This talk is intended for general public and will be given at the level of Scientific American. The public and all university and advance level college students are encouraged to apply. The desirous to register at caad@ncp.edu.pk with (Name, CNIC, University / Department) by September 18, 2017. No TA/DA will be admissible for this activity. This poster is also available on NCP website at www.ncp.edu.pk.



Venue:

Main Auditorium,
National Centre for Physics,
Quaid-i-Azam University Campus,
Islamabad

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Registration Deadline:

September 18, 2017