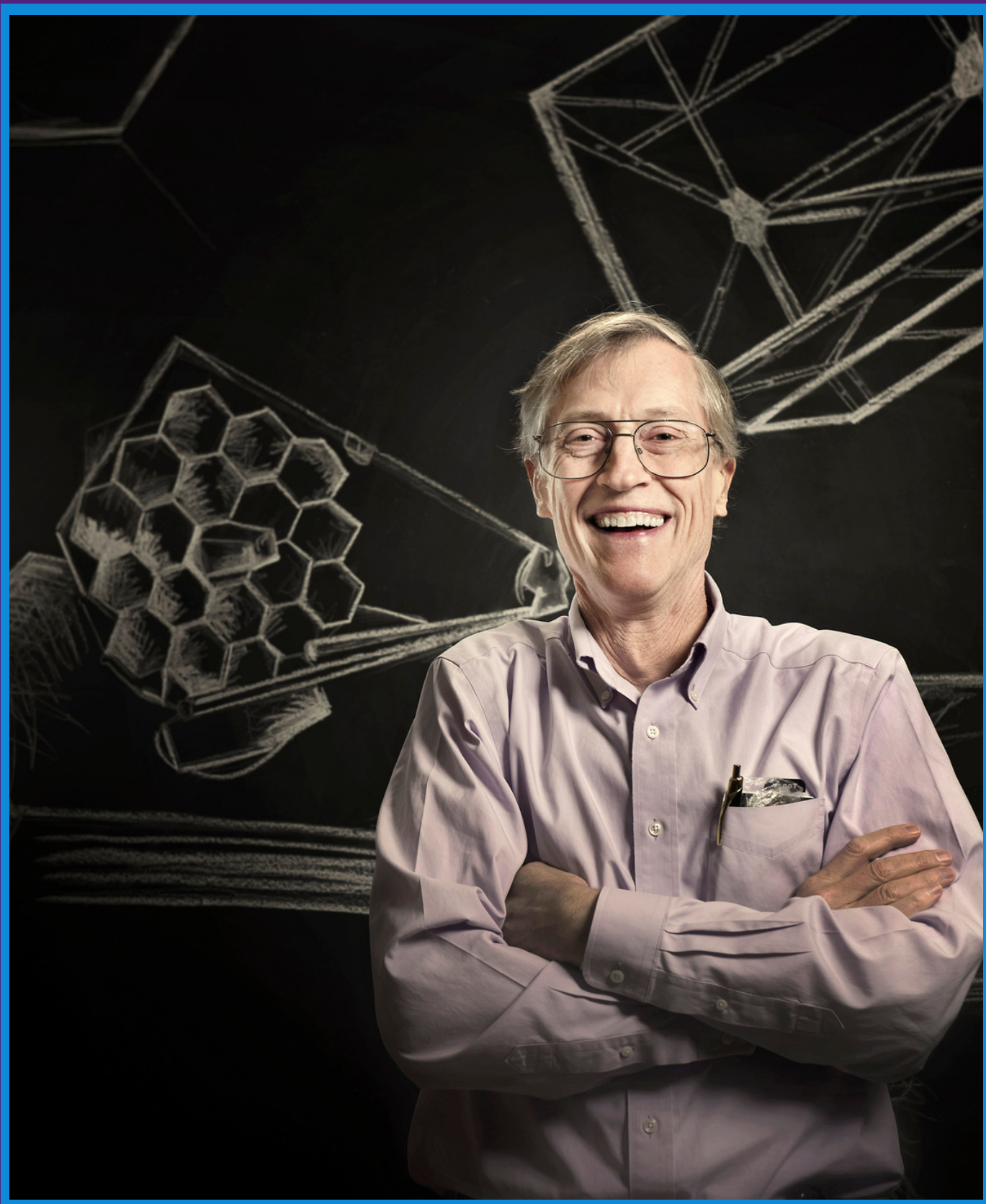


# Nobel Laureate Speaker Series

## Opening the Infrared Treasure Chest with the James Webb Space Telescope

Monday, October 23, from 2-3 pm



The James Webb Space Telescope (JWST) was launched on December 25, 2021, and commissioning was completed in early July 2022. With its 6.5 m golden eye, and cameras and spectrometers covering 0.6 to 28  $\mu\text{m}$ , Webb is already producing magnificent images of galaxies, active galactic nuclei, star-forming regions, and planets. Scientists are hunting for some of the first objects that formed after the Big Bang, the first black holes (primordial or formed in galaxies), and beginning to observe the growth of galaxies, the formation of stars and planetary systems, individual exoplanets through coronagraphy and transit spectroscopy, and all objects in the Solar System from Mars on out. It could observe a 1 cm<sup>2</sup> bumblebee at the Earth-Moon distance, in reflected sunlight and thermal emission. **Dr. Mather will show how he and his team built the Webb and what they hope to find.** Webb is a joint project of NASA with the European and Canadian space agencies.

**Dr. John C. Mather**  
Nobel Prize in Physics 2006

[montgomerycollege.edu/events/nobel-laureate/](https://montgomerycollege.edu/events/nobel-laureate/)

Globe Hall, High Technology and Science Center  
20200 Observation Drive, Germantown MD 20876

This presentation is intended for a general audience.

Light reception following the presentation.

Sponsored by the Office of the Vice President & Provost,  
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