

# Future astronomical observatories on the moon - proceedings of a workshop

National Aeronautics and Space Administration, Scientific and Technical Information Division  
- Infrared astronomy from the moon



Description: -

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Moon -- Observations -- Congresses.

Astronautics in astronomy -- Congresses.

Astronomical instruments -- Congresses.

Lunar bases -- Congresses. Future astronomical observatories on the moon - proceedings of a workshop

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## Proceedings of the Third UN/ESA/NASA Workshop on the International Heliophysical Year 2007 and Basic Space Science

The companion publication, Volume I of the proceedings of this workshop, is a special issue in the journal Earth, Moon, and Planets, Volume 104, Numbers 1-4, April 2009.

## Future Astronomical Observatories on the Moon

In addition, the telescope would simultaneously observe the interaction of the solar wind with the tenuous lunar atmosphere. Lunar radio frequency telescopes are considered in part 3, and engineering considerations for lunar base observatories are discussed in part 4.

## News & Events

The schedule of talks and speaker biographies are available below. Burns was Vice Provost for Research at the University of Missouri - Columbia from 1997 through 2001.

## Astronomy from the Moon: the next decades

We will search for elusive clues on the nature of the infinitesimal fluctuations created in an inflationary epoch from which all structure in the universe emerged.

## Astronomy from the Moon

Speaker abstracts are also available below. While upcoming space telescopes like JWST and ESA's ARIEL will be able to characterise atmospheres of giant exoplanets through transit spectroscopy, the characterisation of Earth-like exoplanets requires the direct detection of a planetary signal. The Space Exploration Initiative presents an opportunity to construct astronomical telescopes on the Moon using the infrastructure

provided by the lunar outpost.

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To learn as much as possible about the difficulties of remote observations in a hostile environment, Antarctic observatories should be used as test beds for the rigors of lunar observations.

**Astrophysics from the moon; Proceedings of the Workshop, Annapolis, MD, Feb. 5**

In recent years considerable progress has been made with ground-based optical interferometry and several major instruments are already in operation or are in the process of development. Observing the latter, however, requires space-based radio interferometry on a massive scale.

**List of proposed space observatories**

Leon Koopmans is full professor at the Kapteyn Astronomical Institute University of Groningen, The Netherlands.

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