

# W e l c o m e t o G r e e n B a n k !



Image credit: R. Rosen

# Who are we?

## The Green Bank site is part of the National Radio Astronomy Observatory

- Funded through the National Science Foundation
- Mission is to enable forefront research into the Universe at radio wavelengths.
- NRAO telescopes are open to all astronomers
- NRAO also provides both formal and informal programs in education and public outreach for teachers, students, the general public, and the media.

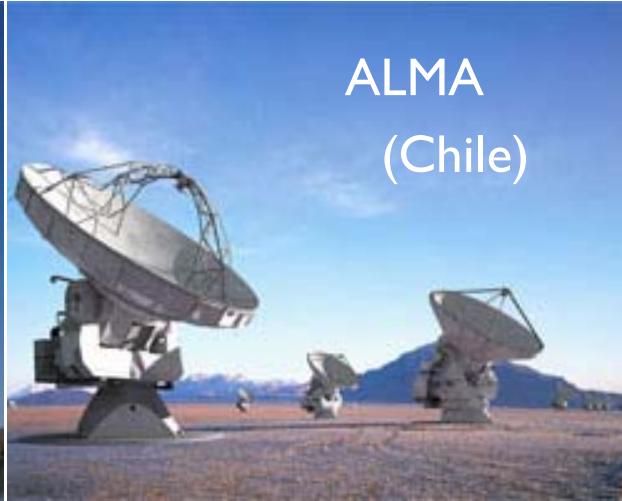


# NRAO has complementary suite of telescopes and facilities

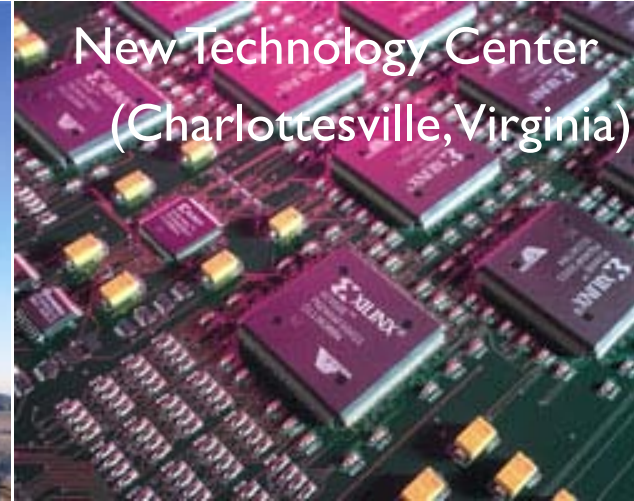
Green Bank  
Observatory



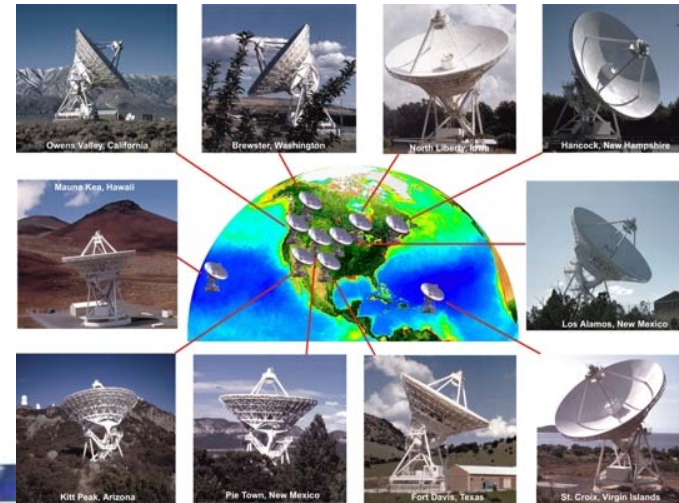
ALMA  
(Chile)



New Technology Center  
(Charlottesville, Virginia)



Very Large Array  
(Socorro, New Mexico)



Very Large Baseline Array

# Green Bank is original NRAO site, with world class telescopes for >50 years

Started 1958  
Completed 1959



Completed 1965



Completed 1995



Completed 2000



Completed 1994

Completed 1962



Completed 1962

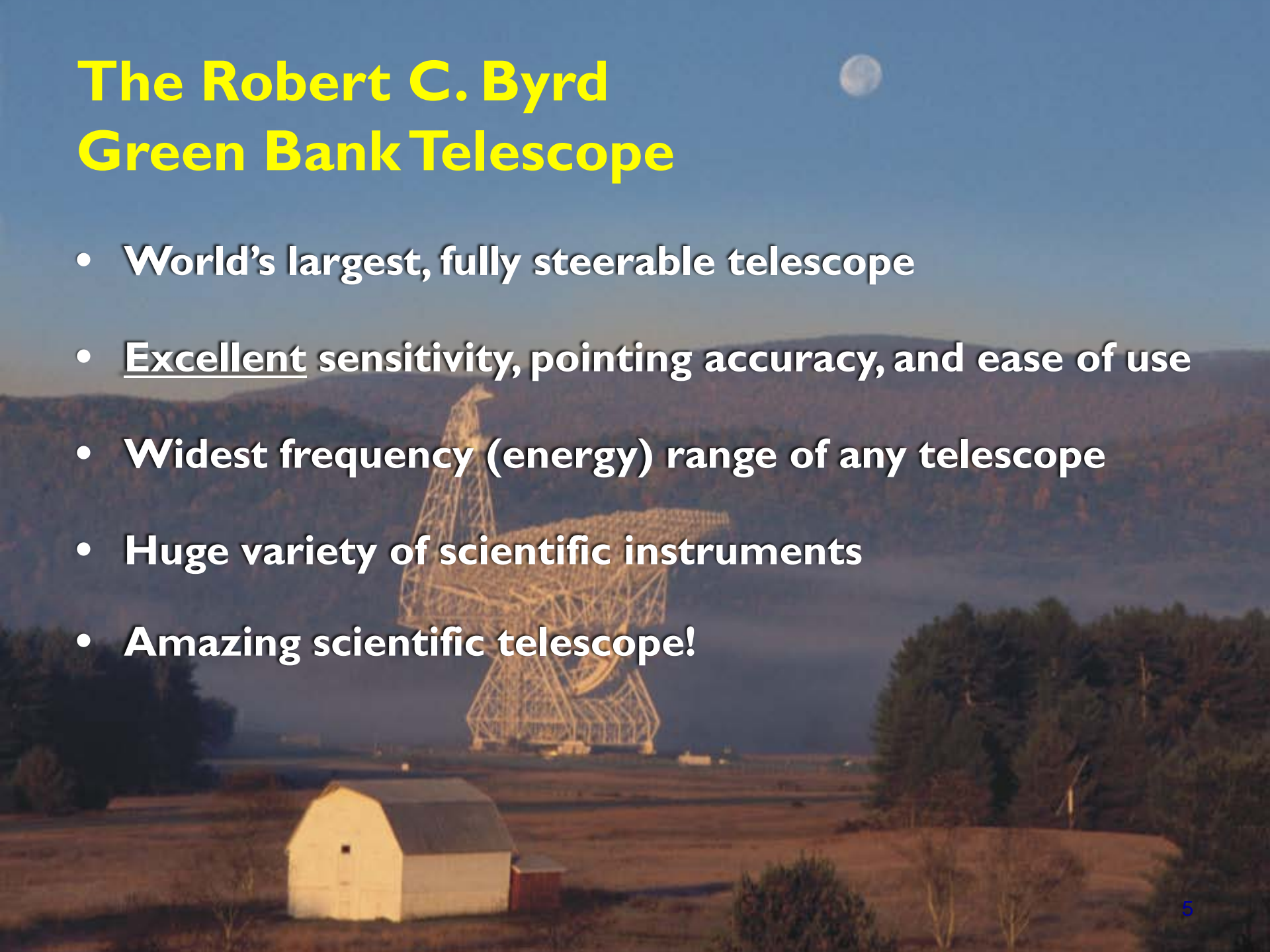


Completed 1967



# The Robert C. Byrd Green Bank Telescope

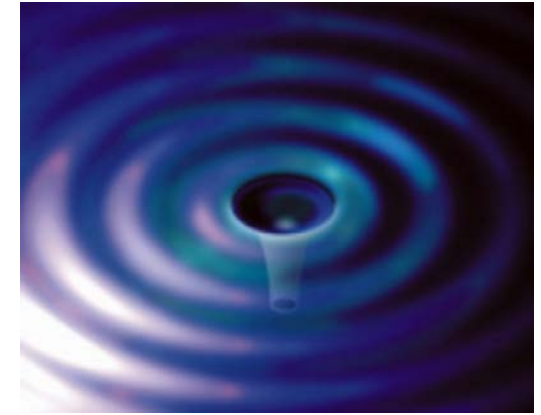
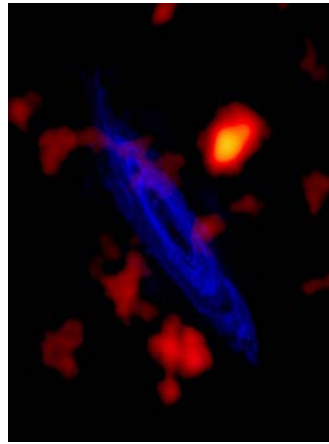
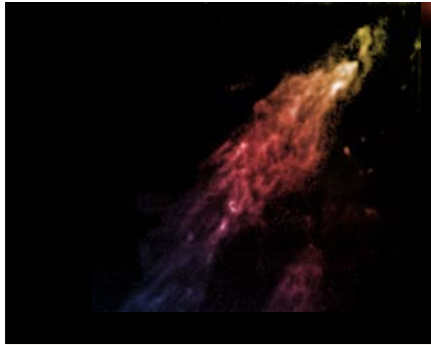
- **World's largest, fully steerable telescope**
- **Excellent sensitivity, pointing accuracy, and ease of use**
- **Widest frequency (energy) range of any telescope**
- **Huge variety of scientific instruments**
- **Amazing scientific telescope!**



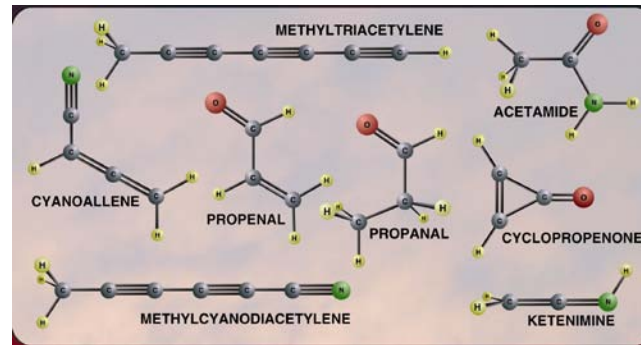
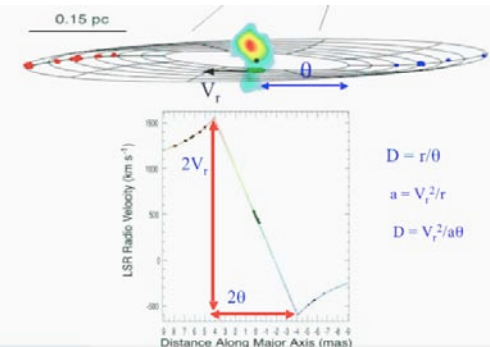
# A World Class Facility for Astronomy Research

## Understanding galaxies

*The formation and evolution of stellar systems*



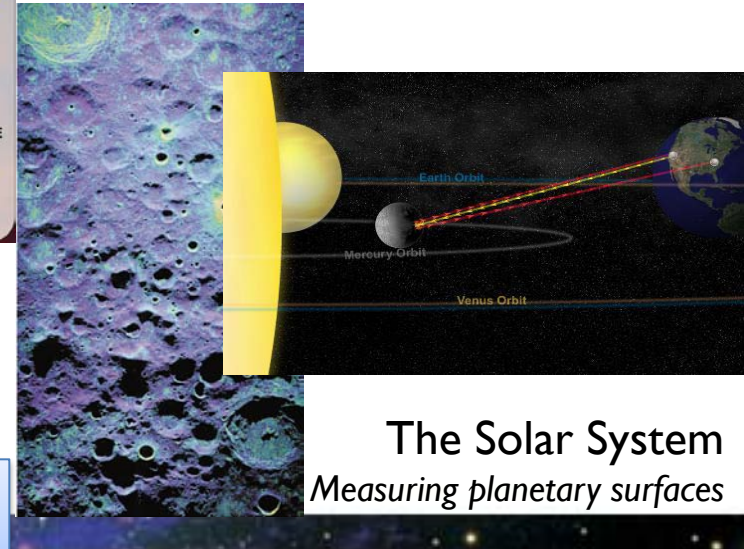
Fundamental Physics,  
*Testing theories of gravity*



Astrochemistry  
*The origin of Life*

## Cosmology,

*The origin and destiny of the Universe*



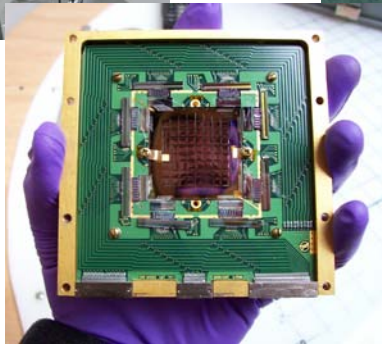
The Solar System  
*Measuring planetary surfaces*



Open Skies Policy:  
*GBT can be used by any qualified researcher in the world*

# A telescope designed to be enhanced

Ongoing development program to ensure the GBT remains a vibrant, cutting-edge instrument for years to come



All development is done in conjunction with college, university, and industry groups around the country and the world

# NRAO's Center for Science Education

*bridging the communities of scientists and educators, creating connections in science, technology, engineering and mathematics*

- Research Workshops and opportunities
- Research Experience for K-12 teachers
- Student training workshops
- Pulsar Search Collaboratory
- Co-op and REU Programs
- Developer and supplier of science education materials (e.g. Quiet Skies)
- WV Governor's School
- StarQuest
- Society for Amateur Radio Astronomers
- school field trips, amateur astronomy clubs, ...
- **More than 50,000 visitors last year**









You are in the Radio Quiet Zone.

Please turn off all wireless devices!

