



West Virginia's
Space Place



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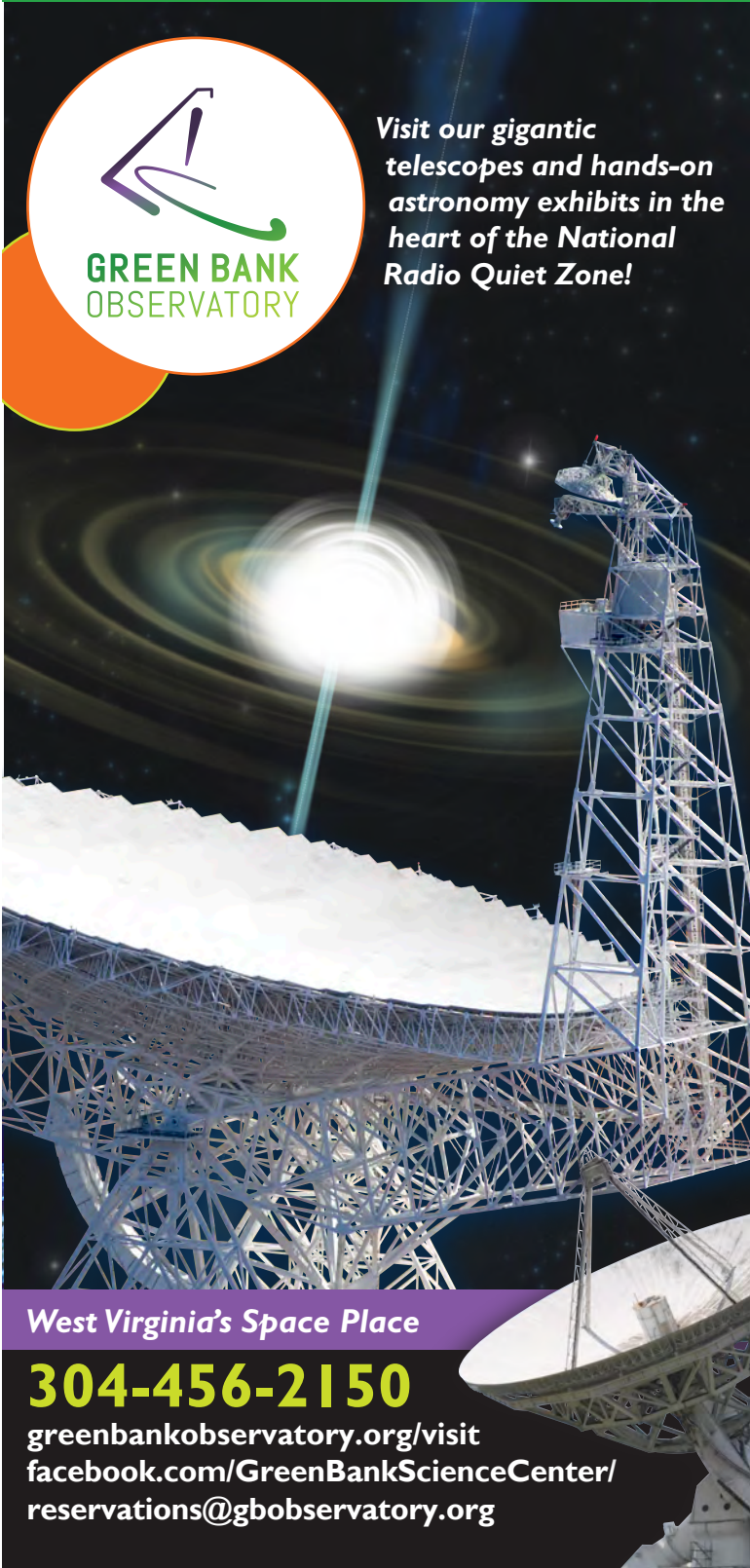


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GREEN BANK SCIENCE CENTER



Visit our gigantic
telescopes and hands-on
astronomy exhibits in the
heart of the National
Radio Quiet Zone!



West Virginia's Space Place

304-456-2150

greenbankobservatory.org/visit
facebook.com/GreenBankScienceCenter/
reservations@gbservatory.org

Top 10 things to do!

1

Project Breakthrough Listen

Learn about the most exciting and comprehensive search for Extraterrestrial life! Try our new SETI tour that guides you through the historical search for life and takes you into restricted telescope facilities.*



3

Galaxy Gift Shop

Out-of-This-World science and astronomy toys and gifts, logo apparel and WV artisan souvenirs.



6

Star Parties!

Once a month, we roll out the optical telescopes for a dark sky viewing!*

8

Explore the grounds

Stretch your legs, bring a bike or walk the dog! How far is Neptune from the Sun? Find out for yourself as you walk through our Solar System Model and discover radio astronomy along the way.

9

Stay a Spell!

Come see what Nature's Mountain Playground offers. Pocahontas County is nestled in state and national parks-see trains, telescopes, live music and more! The historic steam engine excursion train at Cass is just 10 minutes away and Snowshoe Mountain Resort is just 30 minutes away. www.pocahontascountywv.com

4

Catch the Wave Exhibit Hall

Free! Discover how radio astronomers learn about the Universe!



5

Behind-the-Scenes High Tech Tour

Visit telescope control rooms and engineering labs normally off limits to the public!*

2

Telescope Tours

How do I get up close to the GBT? What is a radio wave? Tour the fascinating world of radio astronomy from the pioneering instruments of the 1950s to the world's premier single-dish telescope, the GBT! Includes science demonstrations and bus excursion into the RFI-restricted Zone I. This hour-long, family friendly tour takes you up-close to the world's biggest telescopes. Offered year round, it's the most popular way to explore the site!



7

Starlight Café

Who's Hungry? The Starlight Café offers wraps and deli sandwiches, salads, hot dogs & burgers, nachos & soft pretzels, hand-dipped ice cream, and an assortment of snack foods. Take advantage of our special menu and pricing for groups of 20 or more!



10

Star Lab Sunday!

Every Sunday, we roll out the stars! Gather under our planetarium balloon for a fascinating constellation tour. Offered every Sunday at 2pm, this family-friendly event is limited to 15 participants. Reserve your spot early, this tour sells out fast at \$5pp for a 1 hour program!



GBT Fast Facts

- Day and night, rain or shine, the GBT works to observe fundamental physics, star formation and evolution, cosmic chemistry and the origins of life and galaxies.
- Despite its weight, the GBT can be pointed with an accuracy of one arcsecond. That's equivalent to the width of a human hair seen from 66 feet (20m) away.
- It weighs 17 million lbs (7.7 million kg) - as much as 20 fully loaded Boeing 747s.
- The GBT is the World's Largest Steerable Telescope and has a surface that could hold 2 whole football fields!

- The telescope is designed to handle a great range of wave-lengths from 9ft (3m) long down to 1/8th inch (3mm).
- The telescope only receives signals from space, never sends them.
- The telescope is 485ft (148m) tall - taller than the Statue of Liberty and nearly as tall as the Washington Monument.



Organized Group Tours

Motor Coach groups are welcome. Tours can be scheduled any day of the week. For your convenience, and to guarantee a guided tour, please make advance reservations. A \$3 fee per person is required for motor coach tours. Group meals also available.

School and scout groups are welcome. Tours can be scheduled any day of the week. We can tailor a program to your group. Tour reservations are free for organized school and scout groups, advance arrangements are required. See event calendar for new Boy Scout Weekend opportunities!

Informal groups are welcome. If your group is traveling by car, we will incorporate your group into the regularly scheduled public tours. If you have a group of 20 or more people, we appreciate knowing in advance.



For additional group details and reservations, contact the Green Bank Observatory tour director by calling (304) 456-2011 or email reservations@gbobservatory.org

***Find out more about these activities and more! Visit greenbankobservatory.org/visit/ or Call 304-456-2150 for details!**

Plan your trip!

Please note:
Our hours change seasonally. Plan your trip carefully in order to maximize your experience.



High Tech Tours

Offered on Select Thursdays Year-round at 3:30pm.
\$15 per person. Dates below.

Advance reservations strictly required at least 48 hours before the tour. 15 participants max. No photography.
A special tour through telescope control rooms and engineering labs normally off-limits to the public. Federal regulations require pre-screening attendees age 18 and up.
3/9; 4/6; 5/11; 6/8; 6/22; 7/6; 7/20; 8/10; 8/24; 9/14; 9/28; 10/12; 10/26; 11/9; 12/14
Call 304-456-2150 or email tours@gbobservatory.org for reservations.

For more on our screening policy visit:
greenbankobservatory.org/visit/screening



Telescope Tours

Jan 5 – May 25

Tours at 11am, 1pm and 3pm. Closed Tues. & Wed.

May 26 – Sept 4

Tours hourly from 9am-6pm. Open Daily.

Sept 5 - Oct 31

Tours hourly from 9am-6pm. Closed Tuesday & Wednesday

November 1 – May 25, 2018

Tours at 11am, 1pm and 3pm. Closed Tuesday & Wednesday

Adults - \$6/person; Seniors - \$5/person

Children 10 & under – Free

Active Service Personnel and Veterans – Free

Offered Year Round; Reservations required for groups of 20 or more.
Call 304-456-2011 or email reservations@gbobservatory.org for reservations.

Tour the fascinating world of radio astronomy from the pioneering instruments of the 1950s to the world's premier telescope, the GBT! This family friendly tour is our most popular offering!



Family Science Labs

Offered on Select Saturdays;
Free. Dates below.

Get your family started in science! Kids between ages 4-9 will love our fun-filled, hands-on science projects. We provide all materials. Each lab highlights a different science/engineering theme. 1-3pm (Open House Festival on 9/10 from 12pm-5pm!) 3/18; 5/13; 7/1; 9/10*; 11/11

*Don't miss our
Family Science Day



SETI Tours

Offered on Select Fridays
from 1-3:30pm; \$40 per person.
Dates below.

Advance reservations and screening strictly required at least 48 hours prior to tour. 20 participants max., 4 min.; Ages 12 & up.
Hard hats and light refreshments provided. Also offered as Group Reservation on request-limited availability, 4 participants minimum.

Our new SETI Tour celebrates Green Bank's historic Search for Extra Terrestrial Intelligence. The tour begins with an exclusive presentation right in the control room of our historic 85-1 Telescope where the search began with Frank Drake's OZMA project. From there, guests enjoy rare admittance inside the 140-foot telescope where Jill Tartar's Project Phoenix took place and then to normally-restricted GBT access points. The tour ends in our Drake Lounge where you will be greeted by one of our own NRAO astronomers and learn about the future of SETI as the GBT embarks on the new Breakthrough Listen project. If you've ever wanted to be inside our operation control rooms or to speak to one of our radio astronomers in person, then this is THE opportunity of a lifetime!

Tour dates: 5/12, 5/26; 6/9, 6/23, 6/30; 7/7, 7/14, 7/21, 7/28; 8/4, 8/18; 9/1, 9/8, 9/22; 10/6, 10/20

Please call 304-456-2150, email tours@gbobservatory.org or visit greenbankobservatory.org/visit/ for more information.



Star Lab Sundays

Offered Every Sunday at 2pm; \$5 per person

Family Fun! Crawl into our planetarium balloon for a fascinating night sky tour! Space is limited to 20 participants. Program lasts approximately one hour and includes a DIY star wheel kit! Reservations recommended. Call 304-456-2150 or email tours@gbobservatory.org for reservations.



Star Parties - Free

(Rain or Shine)
Meet at the Science Center

3/25; 4/29; 5/20; 6/24; 7/22; 8/19;
9/16; 10/21; 11/18; 12/16

Green Bank Observatory staff will treat you to views of the night sky through optical telescopes. If it rains, don't worry! You are invited to a stellar presentation.

Save the Date!



Join the Largest Optical & Radio Star Party in the Nation!

Enjoy optical and radio astronomy presentations, hands-on workshops and dark West Virginia skies. Learn to use a radio telescope! Fun activities for children too! The Green Bank Star Quest is sponsored by the Central Appalachian Astronomy Club.



For more information visit
www.greenbankstarquest.org

Star Quest • July 19-22

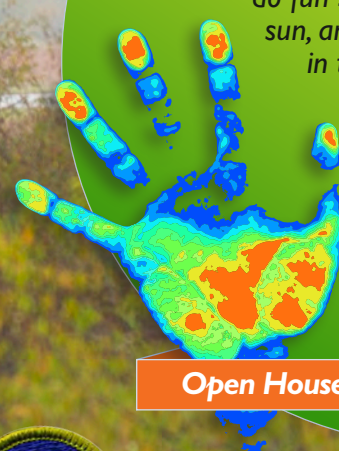
Green Bank Open House & Family Science Day

Where else can you... build and launch a rocket, test your engineering skills, play with liquid nitrogen, do fun science experiments, safely view the sun, and see some of the biggest telescopes in the whole world ALL IN ONE DAY?

Public site tours will be available as well as rare peeks into the control room of the world's largest fully-steerable telescope!

Free Event!
No reservations required.

Open House • September 10



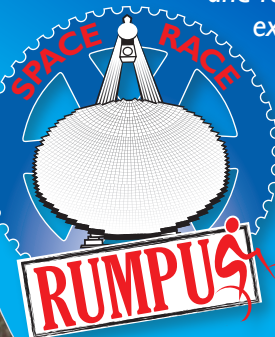
Riders Get Ready!

Join us for a weekend-long cycling festival, where experts will guide you in fun mountain and road rides. Whether you are an experienced mountain biker or complete novice, there will be rides, races and cycling clinics for all ages and levels. The Rumpus also features star parties, bonfires, on-site camping and live music both nights!

Early Registration Discounts!

Find out more information at spaceracerumpus.org

Space Race Rumpus • June 9-11



Merit Badge Weekends!

Earn your Astronomy or Electronics Merit Badge using a real radio telescope!

Free tours and activities for scout troops. Our site is convenient to other popular scout stops such as Seneca Rocks, Snowshoe, Cass Railroad, and the Durbin Rocket. Spots fill up fast! Weekends include:
Feb 17-19, Mar 24-26,
Apr 28-30, May 19-21, Sept 15-17, Oct 20-22,
Nov 17-19, Dec 15-17

Make your reservation today!

Email: reservations@gbobservatory.org
Call: 304-456-2011



Educational Field Trips!

Free tours, activities, and day and overnight field trips for organized groups of K-16 students, Boy & Girl Scouts and clubs. Overnight students experience science first hand by completing research projects with a real radio telescope. More than just a tour, a trip to GBO might just inspire your students to join the next generation of scientists and engineers. Registration required.

Email: reservations@gbobservatory.org

Call: 304-456-2011

greenbankobservatory.org/visit/field-trips/

Create your own event!



Find out about all events and more at:
greenbankobservatory.org

Featured Events

Garth Newel Music Center
Young Artists Showcase
August 1st

Total Solar Eclipse Party
August 21st

Green Bank Turkey Trot
5K/10K, November 25th



Green Bank Public Lecture Series
See www.greenbankobservatory.org for details.

Support the Green Bank Observatory!

Making a gift to the observatory supports our daily operation and mission including our Education and Public Outreach program reaching nearly 10,000 students annually. All donations and memberships can be made in honor or in memorium of and make a thoughtful gift.

Visit greenbankobservatory.org/engage/ or call 304-456-2011 to learn how you can become a part of our team!

Dates and events subject to change.
Visit greenbankobservatory.org/visit for updates.

For event reservations call: 304-456-2150

We'll come to you!

Request a college ambassador from our West Virginia Space Public Outreach Team (SPOT) to visit your school or group and deliver standards-based slideshows and hands-on activities. Presentation titles include: "How to Make a Planet... with Life!", "The Star of Our Universe" and "The Invisible Universe: Radio Waves, Gravity Waves and the Green Bank Telescope".

Request a presentation and activities today!



greenbankobservatory.org/education/outreach



Visit the Green Bank Telescope

Green Bank Observatory

Science Center & Tour Hours

Jan 5 – May 25

Open Thursday-Monday; ** 10am-6pm
Telescope Tours at 11am, 1pm and 3pm

May 26 – Sept 4

Open Daily; 8:30am-7pm
Telescope Tours Hourly 9am-6pm

Sept 5 - Oct 31

Open Thursday-Monday; ** 8:30am-7pm
Telescope Tours Hourly 9am-6pm

November 1 – May 25, 2018

Open Thursday-Monday; ** 10am-6pm
Telescope Tours at 11am, 1pm and 3pm

** Closed Tuesday and Wednesday some seasons.

Closed: 4/16 for Easter Holiday
11/21-11/24 for Thanksgiving Holiday
12/24-12/27 for Christmas Holiday
12/31-1/3 for New Year's Holiday

**General Admission to the
Science Center is FREE!**

Telescope Tour Rates

General Pass (Ages 11-64)	\$6.00
Senior Pass (65 & Up)	\$5.00
Children (10 & Under)	Free
Veterans and Active Service Members	Free

HOURS SUBJECT TO CHANGE.
**In inclement weather, please
call ahead at 304-456-2150.**

Green Bank Observatory

GPS coordinates
38d-25'-48.2"N
79d-49'-03.93"W

**Only
30 minutes
to Snowshoe and
only
10 minutes
to Cass!**



Welcome to the Quiet Zone! The Green Bank Science Center is at the heart of the National Radio Quiet Zone, a 13,000 square mile region of minimized radio signal interference designated by the U.S. Government in 1958 to create a safe haven for radio astronomy. Please plan to turn off your cell phone and other wireless devices when you arrive. To learn more, visit <http://greenbankobservatory.org/nrqz>



The GREEN BANK OBSERVATORY is a facility of the National Science Foundation operated under cooperative agreement by Associated Universities, Inc.

The Green Bank Observatory
155 Observatory Road, Green Bank, WV 24944
25 miles north of Marlinton, 53 miles south of Elkins,
and 65 miles west of Staunton, VA.