



Green Bank Observatory Communications

Jill Malusky, Public Relations Specialist



GBO Communications

Resources & how stuff works

- Platforms
 - Web & Social
- Content
 - Virtual, Graphic, Photo & Video resources
- Press Releases
- Media/Press Requests
- Tracking & Analytics



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Winter 2022 SCIENCE NEWSLETTER **READ ME**

proposal call+workshops+student opportunities
+new projects+new staff+STEM education+more



- Calendar
- Media Library
- Conversations
- Analytics
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- Linkin.bio
- Learning Center

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Show Filters

Schedule to

greenbank... Green Ban... greenbank... Greenbank... green-ban...

Today
<
>
Jan 23 - 29, 2022

America/9

	23 SUN	24 MON	25 TUE	26 WED	27 THU	28 FRI
4AM						
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9AM						
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11AM						
12PM						
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6PM						
7PM						

Light pollution post - IDSA video

Dark skies - how to make an observ...



Green Bank Observatory

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11:20

Draw An Alien with Rebekah!

No views • 17 minutes ago



17:37

Learn Stellarium with Luci!
Constellations, Myths, &...

No views • 27 minutes ago



1:00:07

AMA Will Armentrout

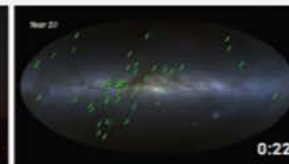
18 views • 8 days ago



0:19

Green Bank Time Lapse

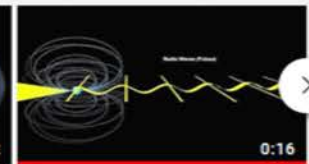
19 views • 13 days ago



0:22

NANOGrav 11yr psrs

11 views • 13 days ago



0:16

nrao19cb06 FINAL hiQ

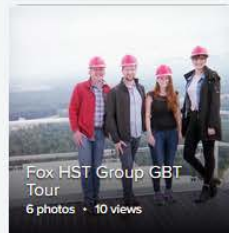
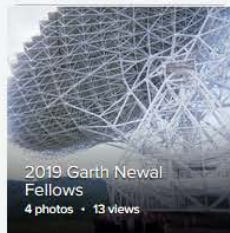
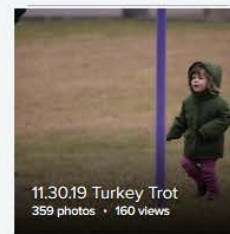
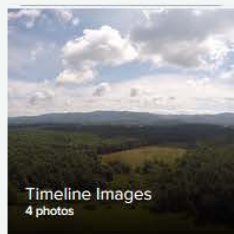
4 views • 13 days ago















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ZOOM & DESKTOP BACKGROUND
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The Green Bank Observatory Brand and Logo

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The brand of the Green Bank Observatory what sets us apart in the world of radio astronomy – it is what is presented to scientists, advocates, partners, and radio astronomy enthusiasts around the world. It is more than just the logo used to represent the Observatory, it is a recognition of history, education, and excellence in scientific research and discovery. Whenever the Green Bank Observatory name appears in public, the brand is at work, therefore it is critical that the brand is protected.

Logo

One of the key elements of the Green Bank Observatory mission and vision of the Observatory.

The logo can be used as a link to the Observatory website.

Logo Versions and Use

Standard Logo Versions



GBO Community Zooms



Green Bank Observatory Community Zoom

The Observatory has been sharing news and information about its operations and science in bi-weekly Zoom meetings. The recordings are linked below, and include a description of topics and presenters in the recording descriptions.

If you would like to listen in live, please use the form at the bottom of this page to subscribe to our Community Update email list. You may unsubscribe at any time.

2021 Community Zoom Webinars

Please note, latest calls appear first:

May 26 – Natalie Butterfield (Green Bank Observatory) **Dense Molecular Gas in the Galactic Bar**

May 12 – Helene Courtois (University of Lyon) **Cosmic-Flows in Green Bank : Discovery of Laniakea and Beyond**

April 28 – Laura Wolz (Manchester University) – **HI constraints from the cross-correlation of eBOSS galaxies and Green Bank Telescope intensity maps**

April 14 – Amy Sardone (Ohio State University) **Quantifying the diffuse HI around 18 MHONGOOSE**

March 31 – Jean-Luc Margot (UCLA) **Spin state and moment of inertia of Venus**

March 17 – Brett McGuire (MIT) **An update from the GOTHAM Large Project: New molecules and formation**

March 3 (PDF presentation) – Charles Romero (Green Bank Observatory) **Insights into Intracluster Media**

February, 17 – Kristine Spekkens (Royal Military College of Canada; Queen's University) **HI in Ultra Diffuse Galaxies**

February 3 – Tom Bania (Boston University) **GBT Observations of 3He++ Planetary Nebulae**

January 20 – Kat Barger (Texas Christian University) **Hydrodynamic Instabilities along the Infalling HI**

January 6 – Jesse Bublitz, Will Armentrout, Pedro Salas, Ryan Lynch: **GBO Staff Presentations at the AAAS**

Join our Green Bank Observatory Science Community Updates

We hold a bi-weekly community update - currently through Zoom - to provide information on the state of the Observatory, facility updates, and upcoming conferences, training, or events.

A part of this time is also devoted to a short presentation from a scientist in the field of radio astronomy. If you would like to receive notifications for future meetings, please complete the form below.

Email Address

first_name

last_name

Organization (work, university, etc.)

☐ I agree to receive these updates and know that I can easily unsubscribe at any time.

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About the Green Bank Observatory

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Mission Statement

Green Bank Observatory enables leading edge research at radio wavelengths by offering telescope, facility and advanced instrumentation access to the astronomy community as well as to other basic and applied research communities. With radio astronomy as its foundation, the Green Bank Observatory is a world leader in advancing research, innovation, and education.

Our Facility

The first trailblazers of American radio astronomy called Green Bank Observatory home over 60 years ago. Today, their legacy is alive and well. Nestled in the mountain ranges and farmland of West Virginia, within the National Quiet Zone, radio astronomers are listening to the remote whispers of the universe, in order to discover answers to our most astounding astronomical questions.

[Download a PDF of our 2022 Green Bank Observatory booklet.](#)

Specifically, the Green Bank Observatory:

- provides state-of-the-art telescopes, instrumentation and expertise
- trains the next generation of scientists, engineers, and technicians;
- promotes science, technology and engineering to foster a more scientifically literate society;

- Annual publication
- Distributed to scientific community, education, business, etc.



How are galaxies able to keep forming stars and planets? Astronomers from Texas Christian University used the Green Bank Telescope and simulations of gas instability processes to study high-velocity clouds that are being drawn into our Milky Way galaxy by its gravitational pull. Dr. Kat Barger led a team observing Complex A, a high velocity gas cloud containing enough material to make more than 2 million Suns – if all of it could reach our Milky Way.



Venus is an enigma. It's the planet next door and yet reveals little about itself. An opaque blanket of clouds smothers a harsh landscape pelted by acid rain and baked at temperatures that can liquify lead. New observations from the Green Bank Telescope and the Goldstone antenna are lifting the veil on some of Venus' most basic properties. By repeatedly bouncing radar off the planet's surface over the last 15 years, a UCLA-led team has pinned down the precise length of a day on Venus, the tilt of its axis and the size of its core.

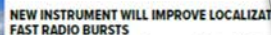
The GBT was outfitted with a new transmitter developed by Raytheon Intelligence & Space, allowing it to transmit a radar signal into space. The NRAM's continent-wide

Very Long Baseline Array (VLBA) received the reflected signal and produced images of the Apollo 15 moon landing site. The proof-of-concept test, culminating a two-year effort, paves the way for designing a more powerful transmitter for the telescope.

More power will allow enhanced detection and imaging of small objects passing by the Earth, moons orbiting around other planets and other debris in the Solar System.



For the next three years, astronomers from the North American Nanohertz Observatory for Gravitational Waves (NANOGrav) will have increased access and new technologies to use on the Green Bank Telescope in their breakthrough scientific studies of gravitational waves. This new technology and additional observation time is supported by funding from the Moore Foundation.



West Virginia University recently announced that a \$17 million Science Foundation grant will be used to construct a new telescope. The new instrument will be used in association with the Canadian Hydrogen Intensity Mapping Experiment, or CHIME, which is located half a continent away in British Columbia. CHIME is studying Fast Radio Bursts, or FRBs. The new instrument at Green Bank will work with the existing CHIME telescope to triangulate the location of FRBs.

This composite image of a giant cosmic collision was created by an international team of astronomers using radio, X-ray, and optical data collected with the MUSTANG-2 receiver on the GBT, the European Science Agency's (ESA) XMM-Newton Satellite, and the National Astronomical Observatory of Japan's (NAOJ) Subaru Telescope in Hawaii. The dazzling colors reveal a dramatic temperature increase resulting from the collision-induced shock – a rise from 40-million°C in the overall body of the cluster to a whopping 400-million°C



The GBT detected a massive, gaseous structure in our Milky Way, using OH as an alternative tracer of H₂. The find was so unexpected, the 20-meter telescope was used to confirm it. What impact will this have on astronomy? The existence has implications for star formation theories, as well as the structure, make-up, and total mass of the interstellar medium.

PUBLICATIONS See our extensive list of recent and past papers
greenbankobservatory.org/science/publications





Visit

In response to the health concerns posed by COVID-19, the Green Bank Observatory Science Center is closed and several public programs and events are postponed.

Programs and events affected have been removed from our Events calendar and notifications have been added to specific program and event web pages.

Take a self guided walking tour of the site. [Download a map here.](#)





Press Releases

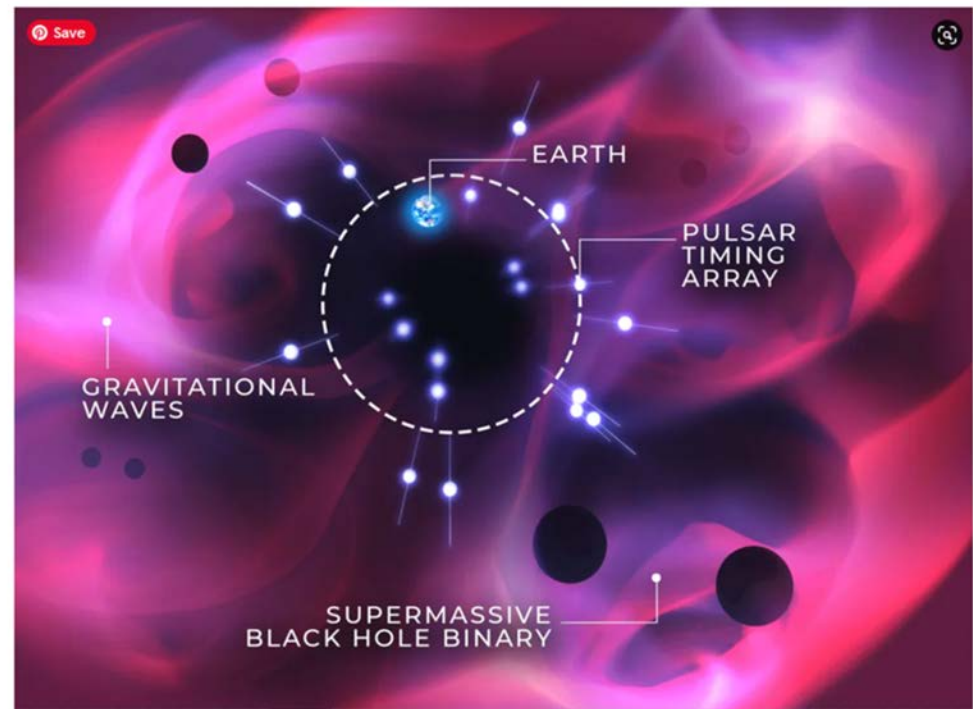
- Published papers using GBT data
- Project announcements
- Conference presentations

Are astronomers seeing a signal from giant black holes?

Posted on 2022-01-12 at 8:00 am.

Written by Jill Malusky

World-wide radio telescope network strengthens evidence for signal that may hint at ultra-low frequency gravitational waves



Press Releases

- Contact Jill
- Complete form
- Loop in any institutional contacts or partners
- Establish timeline
- Review release text
- Jill distribute to GBO news contacts & post on GBO outlets



The screenshot shows the 'Green Bank Observatory Press Release Form'. At the top, there are logos for NSF, Green Bank Observatory, and AUI, followed by the text 'GREEN BANK OBSERVATORY SCIENCE NEWS'. Below the logos is a silhouette of a mountain range. The form title is 'Green Bank Observatory Press Release Form'. The instructions state: 'Please answer the following questions to help us interpret your results for the press and public.' The form asks 'We are looking for:' and lists three criteria: 'Concise answers (1-2 sentences or a paragraph)', 'Use of metaphors or comparisons to everyday concepts', and 'Lay terms, please simply define any objects, actions, or processes that are not common knowledge'. There is a link to 'See examples of great press releases'. The form includes an 'Email' field with a red asterisk, a 'Valid email' label, and a message 'This form is collecting emails. [Change settings](#)'. The final question is 'What is the "elevator pitch" for this finding?' with a red asterisk and a 'Short answer text' label.

NSF GREEN BANK OBSERVATORY AUI GREEN BANK OBSERVATORY SCIENCE NEWS

Green Bank Observatory Press Release Form

Please answer the following questions to help us interpret your results for the press and public.

We are looking for:

- Concise answers (1-2 sentences or a paragraph)
- Use of metaphors or comparisons to everyday concepts
- Lay terms, please simply define any objects, actions, or processes that are not common knowledge

See examples of great press releases

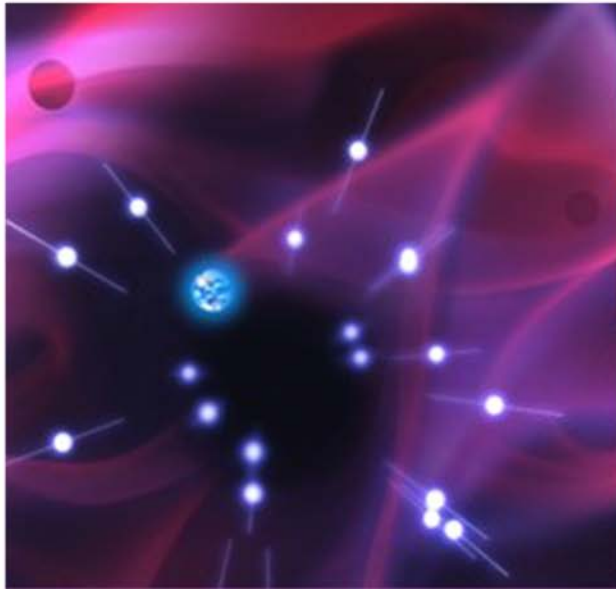
Email *

Valid email

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What is the "elevator pitch" for this finding? *

Short answer text



**Thursday
January 20th
7PM EDT**



LIVE



**ASK ME
ANYTHING:
Scientist
Ryan Lynch
& NEW signals
from giant
black holes**

- New & Media Requests
- Regional, national, international



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COVID-19 Update: Observatory operations and closures. [Learn More](#)



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Press Requests




SAFETY PRECAUTIONS DUE TO COVID-19 HAVE PLACED NEW RESTRICTIONS ON PRESS ACCESS LIMITING THE SIZE OF CREWS AND LOCATIONS.
PLEASE ENSURE THAT YOU ALLOW EXTRA TIME WHEN PLACING YOUR REQUEST.











Press Requests Database & News Tracking Apps

33			asked if we were a party of https://gray-dcc-gray-prod.cdn.arcpublichi	Bruce Young WDBJ7 Lexington Bureau Chief 20 West Nelson Street Lexington, Virginia 24450 540-855-1655
34	1-22	WDBJ		
	1-22	Stephen Kurczy	Authro releasing paperback edition of The Quiet Zone, interview Jim fo	Stephen Kurczy kurczy@gmail.com 860-556-38
35				Cheryl "Sherry" Kellier Coordinator Middle and Secondary Services WVDE Office of Teaching and Learning
	2-22	WV Governors School	image request, confirm captions/use	
36				Melissa Wade, Host/Producer/Writer We're Here Podcast Debuting April, 2022 Mwade1523@gmail.com
	2-22	podcast	podcast visit and interview request, replied through Help Desk ticket -	
37				Robert J. Gronan Green Bank Observatory 304-4
	2-22	Greenbrier River Trail Assoc.	request for 140-foot photo for interpretive sign at Droop Mountain Turn	
38				Tam Senior Social OD/C Natio 2415 Alex (703) tdetr
	2-22	NSF	review document produced about resources shared	
39				Just 304-4
	2-22	Charleston Rotary	send link to release about Jim for photo/bio	











Report Type: **Detailed Report**

Date Range: 02/14/2022 - 02/15/2022 Date Time: 02/15/2022 07:34:15

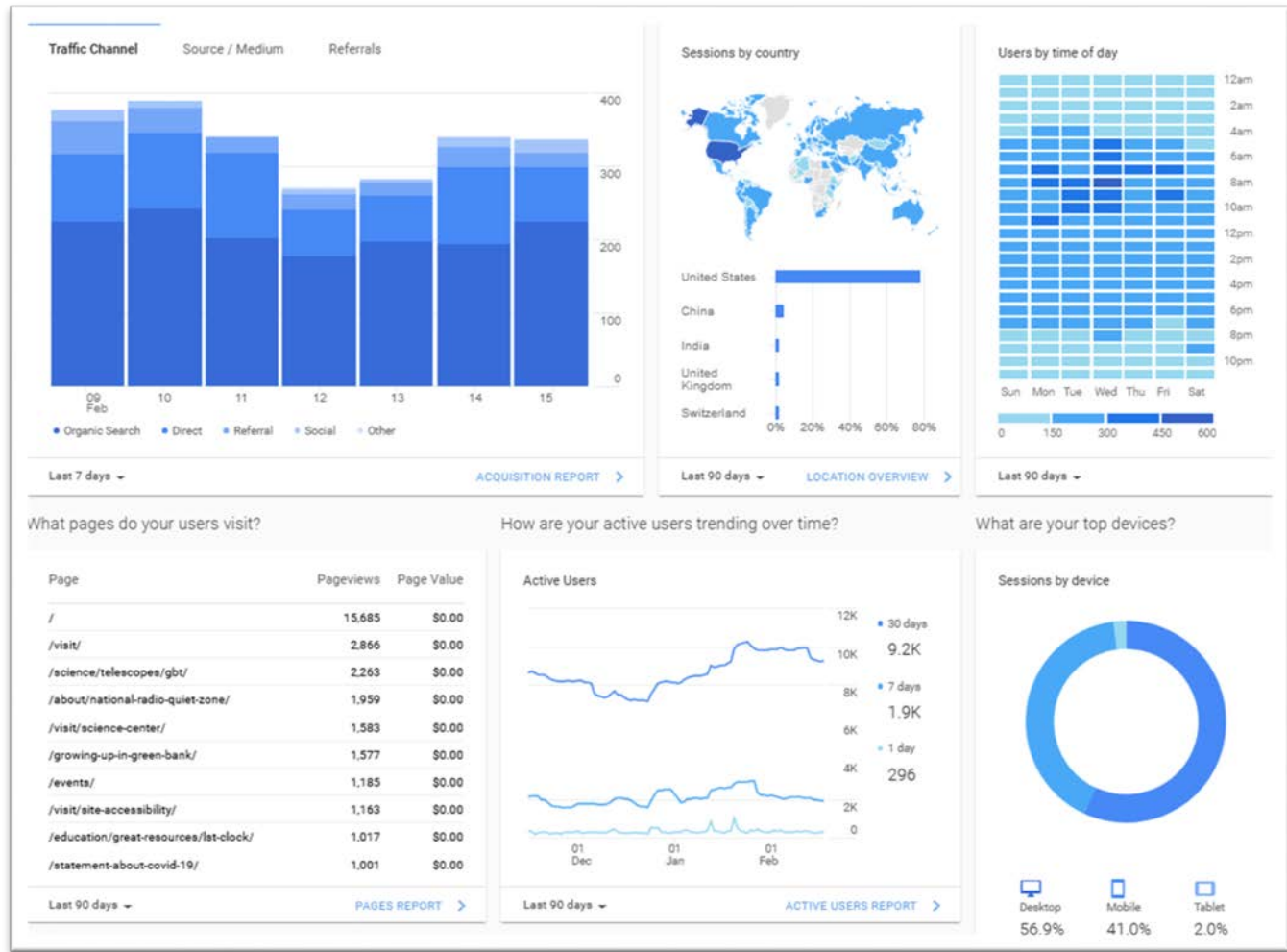
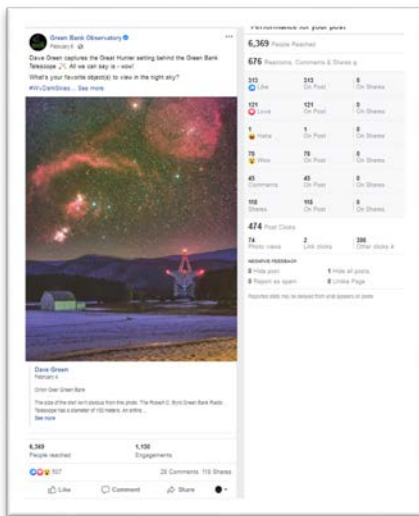
#	 Print	 Web	 TV	 Radio	 Podcast	 Blog	 Wire	 Social
Stories	0	3	0	0	0	0	0	0

Total Stories: 3 Total Stories in Folders: 3

Folders	Total	 Print	 Web	 TV	 Radio	 Podcast	 Blog	 Wire	 Social
Green Bank Observatory	3	0	3	0	0	0	0	0	0



Analytics





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