# FORUM 2025 OFFICIAL SOUVENIR PROGRAM



FRED HAISE
Apollo 13 Astronaut
Lunar Module Pilot



First female Space Shuttle
Commander and first female Shuttle
pilot



**GERRY GRIFFIN**Apollo Flight Director.

PRO/AM CONFERENCE ASTROSTEM WORKSHOPS BEGINNER'S CLASSES SOLAR STAR PARTY OVER 120 VENDORS



#### RAC ROCKLAND ASTRONOMY CLUB<sup>TO</sup>

Rockland Astronomy Club, Inc. 225 Route 59 Suffern, NY 10901-5203 info@rockland astronomy.com

# Board of Directors

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Cover Image: Pillars of Creation, Eagle Nebula James Wedd Space Telescope



# ABOUT THE ROCKLAND ASTRONOMY CLUB



The Cold War was raging and amateur radio operators began reporting that they could hear signals from space. There were huge Newspaper headlines and people were upset and concerned. It was October 4, 1957 and the Soviets had just placed a satellite

in orbit. The world was shocked and would never be the same again.

However, for a small group of neighbors in

Rockland County, it was a chance to get together and look up to the night sky for the new Russian satellite called *Sputnik*. In fact, they had such a splendid time scanning the sky with binoculars that they all agreed to reconvene in a few months. One of the neighbors even promised to bring along a new telescope he had been tinkering with.

Vew York

It was now 1958 and a new agency called NASA had been formed to answer the space threat that had been posed by our Russian rivals,

at the same time our group of neighbors began meeting on a regular yet informal basis to explore the night sky.

Word eventually spread of this fascinating 'get-together', and the group quickly grew beyond just neighbors and even attracted a soon to be prominent politician. By October of 1958, it was decided to form a club and Rockland Astronomy was born. Leadership changed hands several times in the early years, but the interest and the club grew steadily, adding the Joy of the Universe (JOU) star

parties in the early 1980's, the Summer Star Party (SSP) in the

late 80's, the Northeast
Astronomy Forum (NEAF)
in 1991, the Northeast
Astro Imaging Conference
(NEAIC) in 2006, the
Children's Space & Astronomy

Fair (CSAF) and the Lecture Series (RLS) in the early 2000's and the Northeast Pro/Am Conference (NPAC) in 2013.

The Rockland Astronomy Club continues to grow and create important pubic programs to enrich the awareness of space and astronomy. Now, as a 501c3 educational organization with 250 members and volunteers, RAC's mission to bring these kinds of educational programs and outreach to the general public and to the astronomical community is even more focused.

Welcome Back!

The past three years have been trying times for everybody and certainly not any less for those of us here at NEAF and Rockland Astronomy. Postponing shows has been heartbreaking for our team as well as for our patrons and exhibitors. With those decisions governed by state and county regulations as well as the economic risks in a pandemic environment and the concern to keep everybody safe and healthy, there was little recourse in the postponements. However, as we move beyond those times, we here at NEAF & RAC have been working extremely hard this past year to reassemble our professional team of show experts and bring NEAF back to all its pre-pandemic glory. As a result, Rockland Astronomy is proud to announce our 32nd annual blockbuster event!

NEAF's 90,000 square foot exhibition space is brimming with over 120 vendors and exhibitors. NEAF also features two theaters overflowing with exciting lectures and presentations, as well as our classroom sessions and workshops. Be sure to check out our Pro/Am Conference, where you can learn how to do science that will aid real astronomers in important research projects.

I encourage you to review all the event schedules and plan your day accordingly – there is just so much to see and do!

We hope you enjoy this year's Forum.



Ed Siemenn and the NEAF Team

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# WHAT IS NEAF?

NEAF has been a world renowned forum of astronomy and space interests for a quarter century. It's the world's prëeminent symposium for award winning Talks, Workshops, Classes, and Conferences.

It's an annual gathering of more than 4,000 professionals, amateurs, and space and astronomy enthusiasts, all coming together to share interests and passions.

Additionally, NEAF brings together over 100 vendors and exhibitors from around the world, representing every major manufacturer and dealer in the business, which also makes it one of the largest trade shows and collaborative venues of its kind in the world, not to mention an enthusiast's shopping Mecca for all their astronomy gear needs.

Started in 1991 by the Rockland Astronomy Club as an outreach project, NEAF quickly grew into a world renowned meeting place for Amateurs and Professionals to gather and share ideas through Lectures, Workshops, Pro/Am Conferences, classes, informal gatherings and much, much more.

NEAF is a true 'Forum' of events for anyone who has gazed upward to the night sky and found a curiosity to understand the cosmos that lies beyond our own pale blue dot.

Each year NEAF searches the globe to present an all star line-up of amazing guests that are making history today. Nowhere else can you find such an exciting array of programs brought together in one place and at one time.

If Space and Astronomy interest you, then attending NEAF's a must.

NORTHEAST ASTRONOMY FORUM™

Sponsored by



**Astronomy DISCOVER** 













# **6 NEAF TALKS SCHEDULE\***

NEAF features two theaters in addition to classes & workshops. Please see our other schedules for additional events & times.



#### **SATURDAY, APRIL 15**

Exhibit Hall Hours: 9:00 am - 6 pm

	·
11:30-12:00	Welcoming remarks with Joe Rao and Vince Coulehan
12:00-1:00	<b>Robert Reeves</b> , Astrophotographer & Author, "Post Cards from the Moon"
1:15- 2:15	<b>Alyssa Pagan</b> , Science Visuals Developer, Space Telescope Science Institute, "Webb Imagery, The Art and Science in Translating Cosmic Infrared Light"
2:30-3:30	<b>Nagin Cox</b> , JPL Systems Engineer- Mars Rover Mission, "Dare Mighty Things: Mars Rovers Paving the Way"
3:45-4:45	<b>Holly Ridings</b> , Deputy Program Manager for NASA's Gateway project, "Artemis and the Gateway Program, NASA's pathway to the Moon"
5:00-6:00	<b>Eileen Collins w/Jonathan Ward</b> , First Female Space Shuttle Commander. / Author "Through the Glass Ceiling to the Stars"
6:00-6:45	Book signing with Eileen Collins and Jonathan Ward
	SUNDAY, APRIL 16 Exhibit Hall Hours: 10 am – 5 pm
12:15-1:15	<b>Jani Radebaugh</b> , Planetary Scientist, team member of Saturn's Dragonfly Mission, Wind, Sand and Organics: Exploring Saturn's Moon Titan through the Dragonfly Mission
1:30-2:30	<b>Felix Schlang</b> Space news journalist and host of YouTube's What about it!? "The Success of New Space"
2:45-3:45	Fred Unice Apollo 12 Astronaut Lupar Modulo Dilet
	<b>Fred Haise</b> , Apollo 13 Astronaut, Lunar Module Pilot, "Never Panic Early"
4:00-5:00	
	"Never Panic Early"  Gerry Griffin, Apollo Flight Director,

<sup>\*</sup>Speakers and schedule are subject to change.



FIRST FEMALE PILOT AND FIRST FEMALE COMMANDER OF A SPACE SHUTTLE.

JONATHAN WARD CO-AUTHOR OF <u>THROUGH THE GLASS CEILING TO THE</u>
<u>STARS: THE STORY OF THE FIRST AMERICAN WOMAN TO COMMAND A</u>
<u>SPACE MISSION</u>

Through the Glass Ceiling to the Stars: The Story of the First American Woman to Command a Space Mission

EILEEN COLLINS was the first female pilot and first female commander of a Space Shuttle. She is a retired NASA astronaut and United States Air Force colonel and a former military instructor and test pilot. She was awarded several medals for her work. Colonel Collins has logged 38 days 8 hours and 20 minutes in outer space. Collins retired on May 1, 2006, to pursue private interests, including service as a board member of USAA

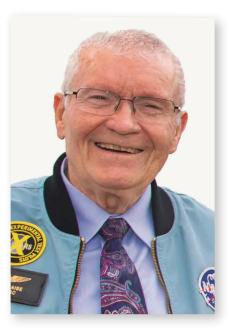
JONATHAN H. WARD is a lifelong amateur astronomer. His love for bringing the wonders of space exploration to life for the general public began in high school, when he volunteered as a tour guide at the Smithsonian's National Air and Space Museum during the Apollo 15 and 16 missions. He continues his public outreach today, as a Solar System Ambassador for NASA's Jet Propulsion Laboratory, as a frequent speaker on space exploration topics to interest groups and at national conferences, and as an author of three recent books on the Apollo and Space Shuttle programs. When he's not outside with his telescope or writing at his computer, Jonathan serves as an executive coach at the Center for Creative Leadership in Greensboro, North Carolina.

#### **NEAF TALKS**

**FRED HAISE – SUN, 2:45-3:45 PM** *Apollo 13 Astronaut and Lunar Module Pilot* 

#### **Never Panic Early**

FRED W. HAISE JR. was one of the 19 astronauts selected by NASA in April 1966. He served as backup lunarmodule pilot for the Apollo 8 and 11 missions. Haise was the lunar module pilot on Apollo 13 (April 11-17, 1970. Fred was also backup spacecraft commander for the Apollo 16 mission. He has logged 142 hours and 54 minutes in space.



Apollo 13 was the seventh crewed mission in the Apollo space program and the third meant to land on the Moon. The craft was launched from Kennedy Space Center on April 11, 1970, but the lunar landing was aborted after an oxygen tank in the service module failed two days into the mission incapacitating the capsule. The crew instead looped around the Moon and utilized the LM as a lifeboat. although the LM was designed to support two men on the lunar surface for two days, Mission Control improvised new procedures so it could support three men for four days. The crew experienced great hardship, caused by limited power, a chilly and wet cabin and a shortage of potable water, they returned safely to Earth on April 17.

#### **HOLLY RIDINGS - SAT, 3:45-4:45 PM**

First Female Chief Flight Director, deputy program manager for NASA's Gateway project.

#### Artemis and the Gateway Program, NASA's pathway to the Moon

HOLLY RIDINGS began her NASA career in 1997 at the Goddard Space Flight Center in Greenbelt, Maryland, before becoming a flight controller at NASA's Mission Control Center in Houston, Texas, where she led teams supporting the International Space Station. Holly Ridings, the first female chief of NASA's flight directors, will now help lead the agency's Gateway Program, an international partnership to establish humanity's first space station around the Moon. In her new role, Ridings will serve as the deputy program manager, where she will lead teams to build and launch NASA's foundational infrastructure in deep space.

Based at NASA's Johnson Space Center, the Gateway Program is an international collaboration that is building a small, human-tended space station that will orbit the Moon as a vital component of NASA's Artemis missions. Gateway will host many capabilities for sustained exploration and research in deep space, including docking ports for a variety of visiting spacecraft, space for crew to live and work, and on-board science investigations to study heliophysics, human health, and life sciences, among other areas. Gateway will be a critical platform for developing technology and capabilities to support future Mars exploration.



#### GERRY GRIFFIN - SUN, 4:00-5:00 PM

Apollo Flight Director

#### SPACE FLIGHT: Where Have We Been, and Where Are We Going

GERRY GRIFFIN served as a flight director during the Apollo program and director of Johnson Space Center, succeeding Chris Kraft in 1982 Flyer. In 1964 Griffin joined NASA in Houston as a flight controller in Mission Control, specializing in guidance, navigation and control systems during Project Gemini. In 1968 he was named a Mission Control flight director and served in that role for all of the Apollo Program manned missions including all manned missions to the Moon.

In October of 1957, almost sixty-six years ago, the Soviet Union launched the first artificial satellite into low-earth orbit. Since that time nations around the world have sent into space all kinds of automated payloads as well as humans (and sometimes both together). Question: why have they done this? Answer: in order to learn and do things worthwhile in the "now-



accessible" environment beyond earth's atmosphere...some looking for worthwhile and peaceful purposes, some others for different reasons. Gerry will take a look at what is going on today in space, both government and commercial activities. With the past and current space activities set as the foundation Mr. Griffin will review what we are going to do in the near-term exciting future, and what is planned for the long-range future.



NAGIN COX - SAT, 2:30-3:30 PM JPL Systems Engineer- Mars Rover Mission

#### **Dare Mighty Things: Mars Rovers Paving the Way**

NAGIN COX graduated from Cornell University with a BS in Operations Research and Industrial Engineering and was commissioned as an officer in the US Air Force. She worked in F-16 Aircrew Training and received a masters degree in Space Operations Systems Engineering from the Air Force Institute of Technology. As a captain, she served as an Orbital Analyst at NORAD/Space Command in Cheyenne Mountain, Colorado Springs. In 1993, Nagin joined the Jet Propulsion Laboratory (JPL) and has since served as a systems engineer and manager on multiple interplanetary robotic missions including NASA/JPL's Galileo mission to Jupiter, the Mars Exploration Rover Missions and the Kepler telescope mission to search for Earth-like planets around other stars

Since the beginning of time, people have been entranced by the night sky and by our nearest planetary neighbor- Mars. Nagin will share stories of NASA's "Journey to Mars" from the early rovers to the Mars 2020 Perseverance Rover and Mars Helicopter. Percy and Ingenuity are the start of the Mars Sample Return campagin. Robotic exploration is the first step in the longer term vision of international exploration of Mars by humans.

#### **NEAF TALKS**



JANI RADEBAUGH - SUN, 12:15-1:15 PM Planetary Scientist, team member of Saturn's Dragonfly Mission

# Wind, Sand and Organics: Exploring Saturn's Moon Titan through the Dragonfly Mission

The newly selected, \$1 billion NASA mission Dragonfly, now in design, is a quadcopter-like rotorcraft lander for Titan. This capable spacecraft will image the surface up close, in the vein of Mars rover exploration, but could vastly outstrip these rovers in ground coverage, easily exceeding several hundred miles. And it will analyze samples, helping us understand if conditions are right for life in the distant reaches of our solar system.

JANI RADEBAUGH is a planetary scientist and an Science Team Member for the newly selected Dragonfly rotorcraft lander mission to Saturn's moon Titan.

#### ALYSSA PAGAN - SAT, 1:15-2:15 PM

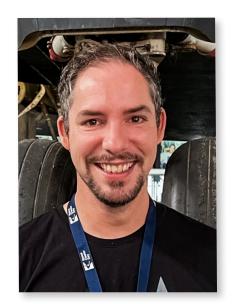
Science Visuals Developer, Space Telescope Science Institute

#### Webb Imagery, The Art and Science in Translating Cosmic Infrared Light



Alyssa Pagan is a Science Visuals Developer in the Office of Public Outreach at the Space Telescope Science Institute. She obtained a bachelor's degree in art and design from Towson University and a second bachelor's in Astronomy from the University of Maryland, College Park. Leveraging art and science, Alyssa applies an in-depth technical understanding of image formats, image quality, resolution, color management, metadata, and photo printing, along with the principles of photography and design to the presentation of astronomical data.

The amazing visions from the Webb Space Telescope have captivated the world. However, there is a long and involved process by which the scientist's black and white observational data are transformed into dynamic color imagery for the public. Join image specialist Alyssa Pagan as she discusses the art and science of translating infrared light into amazing images.



#### FELIX SCHLANG - SUN, 1:30-2:30 PM

Space news journalist and host of YouTube's What about it!?

#### The Success of New Space

FELIX started his career in space news reporting in 2019 with the launch with of his YouTube channel What about it!? and in only a few short years has become one of the most prominent and respected sources of news regarding all things in the exciting world of private space development. In his weekly videos he brings us up to date with everything concerning SpaceX, Blue Origin, Rocket Lab and all the upstart companies developing new rockets. In this short time he has achieved 2 million views on his videos and live streams to 60,000 people on YouTube.

New Space companies are pushing the boundaries of spacecraft design, creating new and innovative solutions for space transportation, exploration,

and colonization. There is a paradigm shift disrupting an entire industry. Private sector involvement is ramping up outpacing Government driven projects. The involvement of private companies in space exploration has inspired innovation and creativity, leading to new breakthroughs in Aerospace technology.

#### **ROBERT REEVES - SAT, 12:00-1:00 PM**

Astrophotographer, Author

#### **Postcards from the Moon**

Robert Reeves has been exploring the cosmos since 1958 and took his first lunar photograph in 1959. In 1984 Reeves began publishing articles about astrophotography in Astronomy magazine. Since then, Robert has published over 250 magazine articles and 250 newspaper columns about astronomy. His articles have appeared in Sky and Telescope, Astronomy, Deep Sky, Deep Sky Journal, Amateur Astronomy, and The Astrograph. In 1994 Reeves published his first book, The Superpower Space Race, followed by The Conquest of Space, co-authored with Fritz Bronner. In 2000, Robert published Wide-Field Astrophotography, followed by Introduction to Digital Astrophotography in 2005 and Introduction to Webcam Astrophotography in 2006.

The Moon presents delightful apparitions throughout the month, ranging from the fanciful Cheshire Cat smile of a crescent moon above the sunset horizon to the friendly face of the Man-in-the-Moon rising in the east at full moon. But how much does the average observer really understand

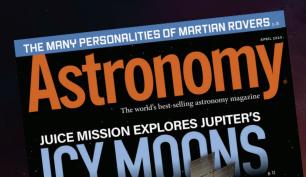


about Earth's nearest celestial neighbor? Robert Reeves unravels the mystery of the Moon's face and shows it to be a geologic wonderland, seemingly frozen in time, yet changing night by night, Reeves visits the sentimental favorite features enjoyed by both novice and seasoned lovers of the Moon and explains in non-technical terms the Moon's geology and topography and how the Moon's face evolved over billions of years. Robert Reeves strips the mystery from the Moon and reveals it as a world waiting to be explored and understood through a telescope.

# TELESCOPE LIVE THEATER (FIELDHOUSE)

	SATURDAY, APRIL 15 Exhibit Hall Hours: 9:00 am – 6 pm
10:30–11:45	<b>Dr. Bernard Sokolowski</b> , 'Telescopes for Beginners' (FREE walk-in class). The three basic kinds of telescopes and mounts and what to look for when buying and using them.
12:00–12:45	<b>Dr. Marco Rocchetto</b> Reaching for the Stars: Telescope Live's Transformative Role in Amateur Astronomy and Astrophotography
1:00–1:45	<b>Eric Kopit</b> Astroimaging Made Easier than Ever
3:00–3:45	<b>Eric Kopit</b> Smartphone-Guided Astronomy with Celestron StarSense Explorer Dobsonians
4:00-4:45	<b>David J, Shuman</b> , ShadowChasers: The Great American Total Solar Eclipse
5:00-5:45	<b>Simon Lewis</b> : ZWO 2023 New Products Premiere: The Future of Astrophotography is Here
	SUNDAY, APRIL 16 Exhibit Hall Hours: 10 am – 5 pm
10:30–11:45	<b>Dr. Bernard Sokolowski</b> , 'Telescopes for Beginners' (FREE walk-in class). The three basic kinds of telescopes and mounts and what to look for when buying and using them.
12:00–12:45	<b>Refath Bari</b> , Simulating the Action Principle in Optics
1:00-1:45	<b>Temple Dudes,</b> Musical Entertainment
2:00-2:45	<b>International Dark-Sky Association</b> , Ruskin Hartley, Exec Director, 'Light Pollution is Increasing at Close to 10% Per Year'
3:00–3:45	<b>Kevin Schindler</b> , Clyde Tombaugh's Remarkable 9-inch Telescope
3:00-3:45	<b>Keith Murdock</b> The James Webb Space Telescope - A New and Powerful Tool for Exploring our Universe
5:15-6:00	Raffle Drawing in the Celestron (Main) Theater

\*Speakers and schedule are subject to change.



# THE WORLD'S BEST-SELLING ASTRONOMY MAGAZINE

Explore our universe with spectacular photography, expert observing tips, top-notch science reporting, and more.

WHAT YOU SHOULD KNOW FOR THE COMING SOLAR ECLIPSES ... EXPLORING LIFE ON EXPLORING LIFE ON

Starless image processing P.44
Celestron StarSense Dob reviewed P.44
Complete guide to sky events P.28



Astronomy.

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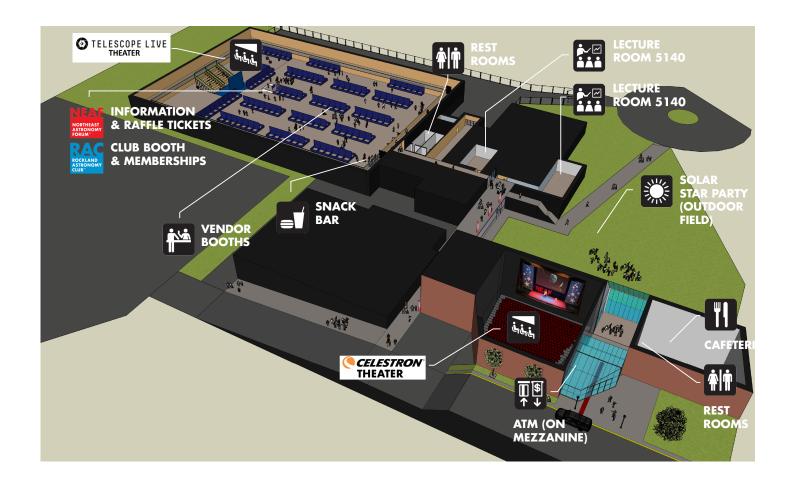


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Image of Veil Nebula taken with QHY163M camera and filter wheel through a 4" refractor courtesy Ha Tran

# **14 FACILITY & BOOTH LOCATION MAPS**



#### **Booth Exhibitor**

116	10MICRON BY COMEC - ITALY	534	ASTROWORLD	132	DIFFRACTION LIMITED
438	ADM ACCESSORIES	142	ATIK CAMERAS/QSI	126	DIGITAL OPTICA
418	AMATEUR ASTRONOMERS	543	BIG BANG PRINTS.COM	514	DISTINCT SOLUTIONS – APT
	ASSOCIATION OF NY	58	BURTON AULISIO	130	DYNAMIC DEEP SKY
538	AMATEUR ASTRONOMERS INC.,	509	CAMERA CONCEPTS & TELESCOPE	140	EPHEMER ADK
	SPERRY OBSERVATORY		SOLUTIONS	421	EXPLORE SCIENTIFIC LLC
430	ANDOVER CORPORATION	62	CAMERA CONCEPTS FOR KIDS	436	FIELD TESTED SOFTWARE
139	ANTIQUE TELESCOPE SOCIETY	441	CELESTIAL CHART	238	FOR THE LOVE OF TOFFEE
237	ANTLIA FILTER	409	CELESTRON	235	FORNAX MOUNTS/FERVENT ASTRONOMY
424	APPLIED SURFACE TECHNOLOGIES	517	CHERRY SPRINGS STAR PARTY	143	ICSTARS
536	ASTRONOMERS WITHOUT BORDERS	443	CHROMA TECHNOLOGY	426	INFINITEES SCIENTIFIC APPAREL
529	ASTRONOMICAL LEAGUE	138	CLOUD BREAK OPTICS	325	INNOVATIONS FORESIGHT LLC
313	ASTRONOMY MAGAZINE (KALMBACH)	55	CLOUDY NIGHTS CLASSIC TELESCOPE	512	INTERNATIONAL DARK-SKY ASSOCIATION
329	ASTRONOMY NOW MAGAZINE		FORUM	109	INTERNATIONAL OCCULTATION TIMING (IOTA)
440	ASTRONOMY SHOPPE	7	CUNY ASTRONOMY	309	IOPTRON
104	ASTRONSCIENTIFIC	133	DARK DRAGONS ASTRONOMY LLC	240	LEAFFILTER NORTH LLC
221	ASTRO-PHYSICS, INC.	521	DAYSTAR FILTERS LLC	226	LOSMANDY
		318	DEEP SKY SOUTH	9	LOWELL OBSERVATORY

# **DEALERS, MANUFACTURERS & CLUBS**



#### **Booth Exhibitor**

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243	MAIN SEQUENCE SOFTWARE	531	QHYCCD	65	SUFFERN ROBOTICS
510	MAINE ASTRONOMY RETREAT (MARS)	341	ROCKLAND ASTRONOMY CLUB	229	TAKAHASHI AMERICA
225	MATRIX ASTRO PRODUCTS	523	ROWAN ASTRONOMY	114	TELESCOPE ENGINEERING COMPANY - USA
214	MYCASEBUILDER	228	SEA WEST OBSERVATORIES	525	TECHWORKS! (CENTER FOR TECHNOLOGY
5	NASA NIGHT SKY NETWORK	417	SIMULATION CURRICULUM		& INNOVATION, INC.)
435	NASA INFORMATION BOOTH	4	SKY & TELESCOPE MAG	342	TELESCOPE LIVE
542	NEW JERSEY ASTRONOMICAL ASSOCIATION	321	SKY-WATCHER	337	TELESCOPE SUPPORT SYSTEMS
121	NEW MEXICO SKIES ASTRONOMY ENCLAVE	327	SKYHOUND	522	TELEVUE OPTICS
508	NEXDOME	335	SOFTWARE BISQUE	136	THE VISIBLE UNIVERSE
419	NIMAX GMBH (OMEGON)	54	SOLAR SYSTEM AMBASSADORS	118	TOLGA ASTRO COMPANY - NJ
128	NPAE PRECISION ASTRO ENGINEERING	50	SPRINGFIELD TELESCOPE MAKERS	544	UNITED ASTRONOMY CLUBS OF NJ
123	OBERWERK	53	STAR IN A STAR	239	USS ABRAHAM LINCOLN
339	OBSTECH	129	STARFIELD OPTICS INC	230	VERNONSCOPE
131	PEGASUS ASTRO	217	STARIZONA	541	WESTCHESTER AMATEUR ASTRONOMERS
537	PHOTONIC CLEANING TECHNOLOGIES, LLC	216	STARLIGHT INSTRUMENTS, LLC	331	WILLIAM OPTICS
535	PLANEWAVE	223	STARLIGHT XPRESS, LTD.	219	WOODLAND HILLS TELESCOPES
137	PRACTICAL ASTROPHOTOGRAPHY MAGAZINE 213		STARTORIALIST	209	ZWO



### **NORTHEAST PRO/AM CONFERENCE**

Held right here at NEAF, NPAC brings together advanced amateurs and professional astronomers seeking collaborative assistance in research projects.

MODERATED BY DR. ARNE HENDEN, Past Executive Director of the AAVSO LOCATION: ROOM 5151

#### **SATURDAY, APRIL 15**

1:15 – 2:15	<b>Dr. Dennis Conti</b> AAVSO Helping the Pros Find the Next Earth 2.0
2:30-3:30	<b>Dr. Franck Marchis</b> Protecting planet Earth with the Unistellar Network
3:45-4:45	<b>Dr. Arne Hendeni,</b> AAVSO Pro-Am Collaboration Opportunities with the AAVSO

#### **SUNDAY, APRIL 16**

12:00-1:00 **Peter Bealo** AAVSO 2023 AAVSO Collaboration Enhancements

1:15–2:15 **Roxanne Kamin**, IOTA Chasing Tiny Shadows

2:30-3:30 **Rachel Freed**,

Preparing the Next Generation for Scientific Research

# BARLOW BOB'S NEAF SOLAR STAR PARTY 2023

## **FEATURING**

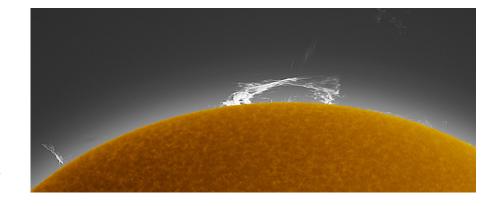




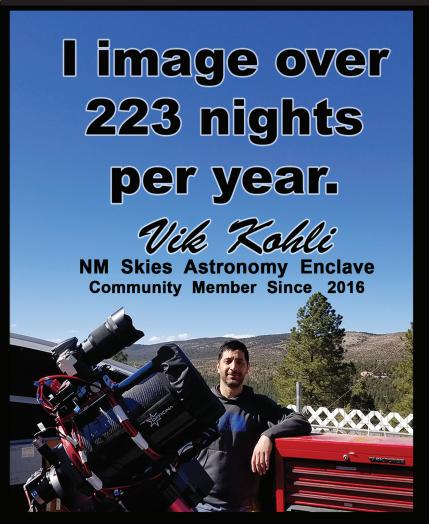
#### **2023 Solar Star Party Dates**

Saturday, April 15 9 am – 4 pm Sunday, April 16 10 am – 4 pm

The Solar Star Party is a free event held at NEAF. It is located in the center courtyard on the campus of Rockland Community College. Volunteers come from around the world bringing some of the finest solar telescopes available. Meet Stephen Ramsden from the Charlie Bates Solar Astronomy Project.



<sup>\*</sup>Speakers and schedule are subject to change.



The Skies are so GOOD, that I can see Mag 8.5+ Objects WITH MY NAKED EYE!!!

(M1, Virgo Supercluster, etc.)

Vik Kohli

#### NM SKIES ASTRONOMY ENCLAVE

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#### NM SKIES ASTRONOMY ENCLAVE: WHEN ONLY THE BEST WILL DO

You can expect up to 300 sunny days and 300 clear nights per year at NM Skies Astronomy Enclave. If your telescope is in a Clam-Shell, like Vik Kohli's or in roll-off, you can expect about 223 nights of great imaging per year. If your telescope is in a dome, you can expect about 265 nights (or more) per year of high quality imaging. You can get more nights of great images with a dome, because the dome offers better wind protection for the scope. Some of our best, Sub-Arcsecond Seeing occurs when the winds are 15+ MPH out of the west, so a dome can help you capture the most challenging faint objects. -- Exceptionally dark skies: You can see your shadow from the summer Milky Way.

Here at NM Skies Astronomy Enclave, we have some of the BEST and DARKEST night skies around. We have a Micro-Climate that sets us apart. Most of the year we have low humidity (high humidity adversly affects your imaging). We have EXCELLENT clean and clear skies. We get very little dust or particulate matter in our skies (unlike the dusty desert areas). The Seeing at NM Skies Astronomy Enclave averages about 1.5 arcseconds ( too many places experience 3 to 5 arcseconds - yuck ).

With our most excellent night skies and with our amazing infrastructure, NM Skies Astronomy Enclave is unique. We have a fully equipped Machine Shop, Wood Shop, and Welding / Work Shop, plus we have a 2,200 sq. ft. Rec. Center. We have 4 community water wells & water to every lot; an on-site High-Pressure, High-Volume Fire Hydrant; excellent roads; Giga-Bit Fiber Optic Internet & electricity to every lot. About our neighbors... Our little mountain has hosted telescopes for NASA, JPL, Cal Tech, Darpa, over a dozen World-Wide Universities, NOAO, and we have over 100 privately owned telescopes. We have new amateur astronomers, and we have world renown expert imagers. There's a limited number of 2+ acre, Mountain-Top and Mountain-side lots available.



A lot of things got interrupted while we were all wearing masks and avoiding social situations. But one thing that persisted was Sky-Watcher's commitment to quality and innovation. In case you missed it, here are a few of the things that launched while we were all at home binging Netflix and waiting for our sourdough to rise:

**CQ350 Pro Observatory-Class Mount.** This 77-pound payload, all-metal construction mount features dual belt drives and an integrated cable management system.

**Star Adventurer GTi.** Weighing just 5.7 pounds while supporting an 11-pound payload, the fully GoTo Star Adventurer GTi is astronomy's new favorite grab-and-go mount.

**Quattro 150P f/4 Newtonian Astrograph.** Fast, lightweight, and comes with a matched 0.85x reducer/coma corrector for the astrophotographer on the move.

Evolux 62 & 82mm Wide-field Doublet Refractors. The perfect blend of superior, extra-low dispersion glass and affordability, Evoluxes are for the savvy astrophotographer looking for a lightweight scope that packs a punch.

Virtuoso GTi 130 & 150mm GoTo Tabletop
Dobsonians. Sky-Watcher's renowned Newtonian
optics combine with full-size apertures and GoTo
convenience to deliver genuine astronomic
instruments in a compact package.

Heritage 130 & 150mm Tabletop Dobsonians. With the same diffraction limited Newtonian optics as our full-sized Dobsonians and our proprietary Flextube collapsible OTAs, portability and superior views are both on the table.

Now that you know what you may have been missing, go to your preferred authorized Sky-Watcher dealer or visit skywatcherusa.com for more details.











See our Night Vision Demo to learn how to take your observing to the next-level.

