

# THE ROCHESTER ASTRONOMER

Newsletter of the Astronomy Section, Rochester Academy of Science

November 2023

Volume 42 No. 3

<http://www.rochesterastronomy.org>



## ASTRONOMY SECTION ELECTED OFFICERS (VOTING BOARD MEMBERS)

President	Tony Golumbeck
Vice President	Dave Bishop
Secretary	Mary Winzenburg
Treasurer	Eric Day
Director	Bill Schlein
Director	Craig Kaplan
Director	Joe Altieri
Past-President	Mark Minarich

## ASTRONOMY SECTION VOLUNTEERS

ASRAS Newsletter Editor	Peter Blackwood
Education Liaison	Joe Altieri
The Sky at Night Coordinator	Dee Sharples
Library Director	John Rhoades
Membership Chair	Craig Kaplan
Planetarium Liaison	Jim Seidewand
Program Chair	Dave Bishop
Public Star Parties	Jim Seidewand
RAS Bulletin Editor	Robert Crumrine
Site Manager	Roger McDonough
Webmaster	Peter Bonneau
ASRAS Forum	Carol Latta
ASRAS Historian	Carol Latta
Facebook Administrator	Jeff Debes

Submissions for the Rochester Astronomer must be received by the 20th of the prior month of the issue. E-mail submissions are preferred (most word processor and graphic file formats are acceptable), but typed or hand written submissions are fine provided they are legible. Please send all submissions to the address below, and indicate if original photos or sketches must be returned. You may not submit copyrighted materials without written permission from the copyright holder. Submissions may be edited for grammar, spelling and/or clarity. Submissions will be published at the editor's sole discretion.

### Please send submissions to:

The Rochester Astronomer  
c/o Peter Blackwood

ASRAS Official Address:  
**Astronomy Section**  
Rochester Academy of Science  
P.O. Box 20292  
Rochester, NY 14602

*Are you changing your address? Please send new address to the Membership Chair  
You can use the Contact Us link on the ASRAS web site to let us know!*

As our Astronomy Section President Tony Golumbeck is away on important family business there will be no 'President's Message' this month.

## ASRAS Board Elections in November

In November we will transition to having our meetings back at the RIT Campus, and we will have our annual ASRAS election on November 3 to elect officers for 2024. The Nominating Committee has come up with a full slate for 2024:

President: Tony Golumbeck	Vice President: David Bishop
Secretary: Bill Gassman	Treasurer: Eric Day
Director 1: Craig Kaplan	Director 2: Bill Schlein
Director 3: Devon Dice-Jaffri	Past President: Mark Minarich

IF YOU CANNOT ATTEND IN-PERSON, you may authorize Mary Winzenburg (as Secretary) to cast your proxy vote by sending an e-mail to [REDACTED] with your instructions. Example: "I authorize the ASRAS Secretary to act as my proxy and cast my ballot for the slate of nominees at the ASRAS meeting" followed by your name. Use this option only if you are voting YES to ALL in the attached slate.

You may also print, fill out your selections, scan, and email this ballot to Mary at [REDACTED]. A copy of the ballot is in this newsletter.

If you would like to snail mail your ballot, email [REDACTED] to request the mailing address. Mailed-in ballots must be received by Mary by November 3 to count in the election.

**From former ASRAS President and Strassenburgh liason Mark Minarich:**

**We are having our annual Holiday Extravaganza, at full capacity, at the Strassenburgh Planetarium on Friday, December 1, 2023.** Bring an appetizer, snack or beverage to share in the planetarium lobby before we go into the Star Theater for our meeting, including a 22 minute movie on DESI : “5000 Eyes”, followed by a star show, and finally a montage of member images on the dome.

Please observe the following guidelines when sending me your images:

Send to [REDACTED]

Deadline November 24<sup>th</sup>, please restrict the subject of your images to nature, sky, or astronomy.

There is space for 4 or 5 images from each member.

Any resolution is OK, but if you save your image with a 200 or 300 dpi it will look better through the Strassenburgh projectors.

If you would like your image on the full dome, 4096 x 4096 pixels (or close) its 4K - use it!

For a half dome panorama make your images 2 x 3 in landscape ratio.

Please send JPEG images only. Do not send RAW or TIFF file formats.

**Dues renewal** season is starting. Please renew your dues with Craig Kaplan by December 31.

Remember, ASRAS has rejoined the Astronomical League. This means you can become a member of the AL for a mere \$8 per year (compare to \$40+ per year if you join AL as an individual). Include this with your dues renewal; it is on the new renewal form.

**Save the Date for next year:** ASRAS RocheStar Fest 2024 date has been selected as Friday July 26 and Saturday July 27, 2024.

**Design competition for ASRAS 2024 eclipse T-shirts.** The winner will receive their choice of a family ASRAS membership OR a family RSF registration, plus 2 T-shirts. Submissions are due by November. The winner will be decided by ASRAS board over email.

### **Public Observing at the Strassenburgh Planetarium**

Free Strassenburgh telescope observing is scheduled for November 4th and 11th. Hours for public observing are 7:00 to 9:45pm Members are welcome to help out!

For any information or late updates call Jim Seidewand at [REDACTED]

### **Regular Monthly Meeting**

**Friday November 3rd, 7:30PM at RIT Liberal Arts Building Room A-205.**

Jeffrey R. Miller of St. Lawrence University Physics Department will speak about the DART Mission “Deflecting an Asteroid”. A map of the meeting location at RIT is at the end of this newsletter.

### **Board of Directors Meeting**

**Wednesday November 1st, 7:00 PM** at the Farash Center in Ionia, with a Zoom option.

Contact Tony Golumbeck via email at: [REDACTED] if you wish to attend.

### **Farash Center Open House Sunday November 5th Noon - 3:00PM**

Come out and learn to use some of the equipment available at the Farash Center!

# The Sky in November 2023

Dee Sharples

If you aren't looking forward to the upcoming colder temperatures and shorter daylight hours, there's still a plus. Setting our clocks back to standard time on November 5th this year does offer an opportunity. You can enjoy a clear night sky at a much earlier hour but be sure to dress appropriately – warm layers, and maybe a hot drink, will make the experience much more comfortable.

The Leonid meteor shower is a highlight in the month of November peaking in the early morning hours of the 18th. From around 2:00 a.m. until dawn begins to brighten the morning sky, you can expect to see 15 meteors per hour from a dark sky site. The radiant, or area from which the meteors will appear to originate, is in the backwards question mark of the constellation Leo the lion, which depicts the lion's head. The debris left behind by Comet 55P/Tempel-Tuttle on past visits through our solar system create the flashes of light as dust and particles burn up in our atmosphere, traveling at over 45 miles per second!

Two other minor meteor showers occur in November. The Southern Taurids peak on the night of November 5–6. The rate of the display is only five meteors per hour. The peak of the Northern Taurids is on the night of November 12-13 with a slightly higher rate of 5-10 meteors per hour. Both are connected to debris left behind by Comet 2P/Encke and will appear to originate in the constellation Taurus from an area  $20^{\circ} \times 10^{\circ}$  south of the Pleiades star cluster.

Venus rises with the crescent moon one hour before sunrise on November 9th. Look East-Southeast for this beautiful sight in the constellation Virgo.

Jupiter and the waxing gibbous Moon

November 24 and 25

Looking east 45 minutes after sunset

Nov. 24



Nov. 25



Jupiter

The planet Jupiter and an almost full waxing moon put on a show of their own on November 24th and 25th. Look toward the East 45 minutes after sunset on both evenings for different configurations. Jupiter will shine at bright magnitude -2.8, three weeks since its opposition when it had reached an even brighter magnitude -2.9!

## MEMBERS Astro Images Section

MANY members of ASRAS excel at astrophotography. Here are just a few of them presenting recent results. Please respect that all images are copyrighted by the individual photographers.

**Gary Opitz**

**NGC 7635**

**Bubble Nebula**

The iconic Bubble Nebula (NGC 7635). This object is located in Cassiopeia and is around 7,100 light years distant.

The "bubble" itself is shaped by the powerful solar winds from a Wolf-Rayet star impacting a molecular cloud of gas and dust.

I acquired the data for the image with my refractor at f/7 using my ZWO ASI2600 mono camera equipped with a set of three narrowband filters and processed in the Hubble Palette. Total exposure time was just under five hours.





**Rick Albrecht**

## **Deer Lick Group (with NGC 7331)**

The largest member of the Deer Lick group, NGC7331, is about 46 million Ly distant. This galaxy was discovered by William Herschel in 1784. The four other galaxies are much more distant at around 350 million Ly. These four galaxies are sometimes affectionately referred to as the “Fleas”.

Scope: C11-HD 1960mm EFL, f/7

Camera: ZWO2400MC-P

Filter: IDAS LPS-D1

Two-minute Subs Total Integration Time: 10hr

Guide Scope: 80mm, 480mm EFL

Guide Camera: ZWO 174MM

Mount: Software Bisque MYT

Polar alignment: iOptron iPolar

Operating Software: The Sky, PHD2, ZWO image capture

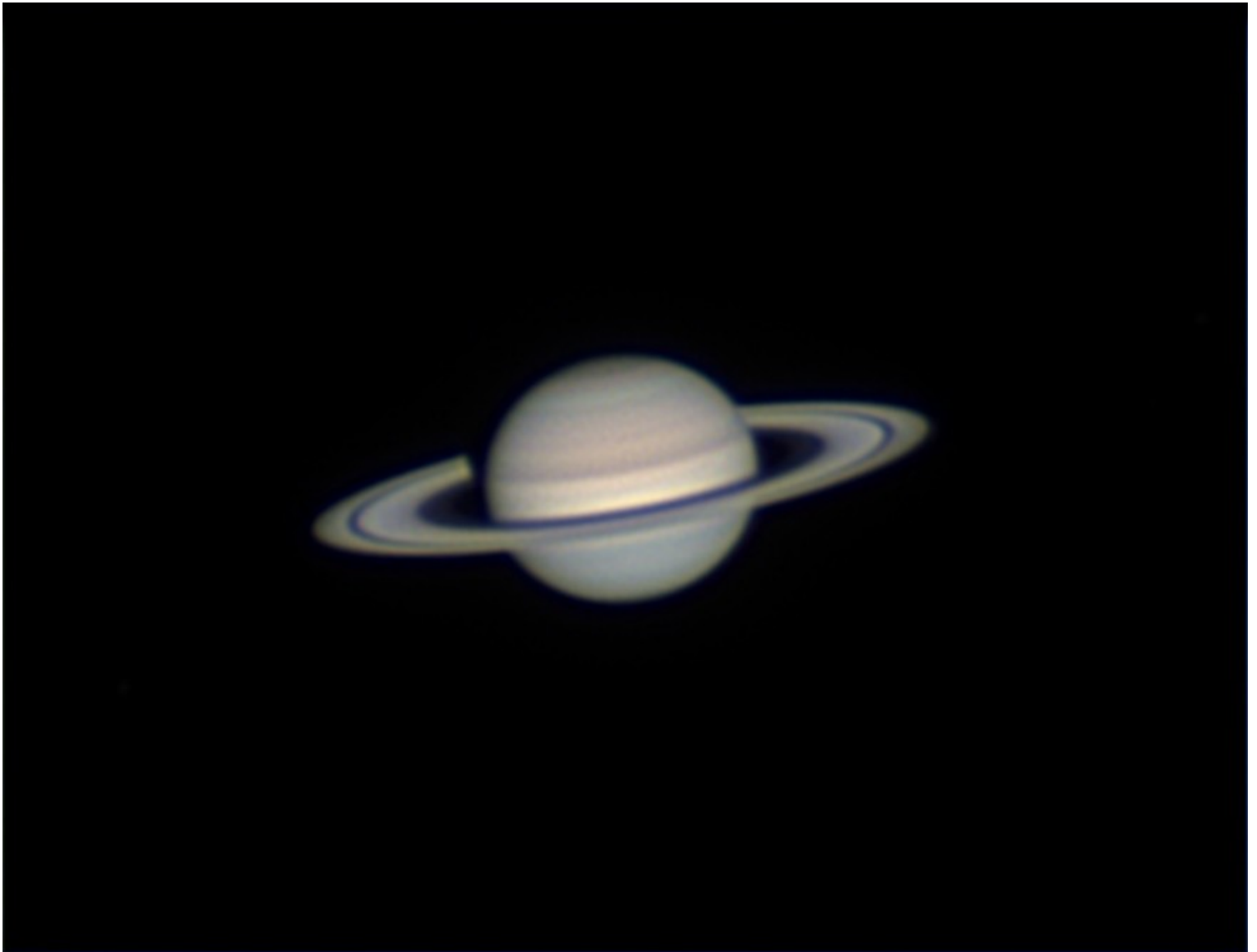
Processing Software: Deep Sky Stacker, PixInsight, Photoshop.



**Kevin Lyons**

**Saturn**

This image is a stack of 40% of 4700 frames using Autostakkert, and sharpened in Registax. Recorded with a ZWO 585MC color camera with a 12" Meade SCT at f/15. Then the clouds moved in right at 10pm!



**Chris McNiffe**

**Eclipse from Floyd, Virginia**

Clouds parted for just long enough. Taken with a Canon R5 at 500mm, f8 and 1/320 sec.







# 2024 Rochester Academy of Science, Inc.

<b>Check one:</b> <input type="checkbox"/> New <input type="checkbox"/> Renewal ( <u>unchgd</u> contact info) <input type="checkbox"/> Renewal ( <u>new</u> contact info)  <b>Payment methods (check one):</b>  <input type="checkbox"/> Mail with check. Please make check to ASRAS:  ASRAS Attn: Membership Chair PO Box 20292 Rochester, NY 14602  <input type="checkbox"/> Pay by PayPal (include \$2 fee) to <a href="mailto:asraspaypal@gmail.com">asraspaypal@gmail.com</a>	<b>Enter First Name</b>		<b>Enter Last Name</b>		<b>Enter Phone</b>		
	<b>Enter Street Address</b>				<b>Enter Email</b>		
	<b>Enter City</b>				<b>Enter ST</b>	<b>Enter Zipcode</b>	

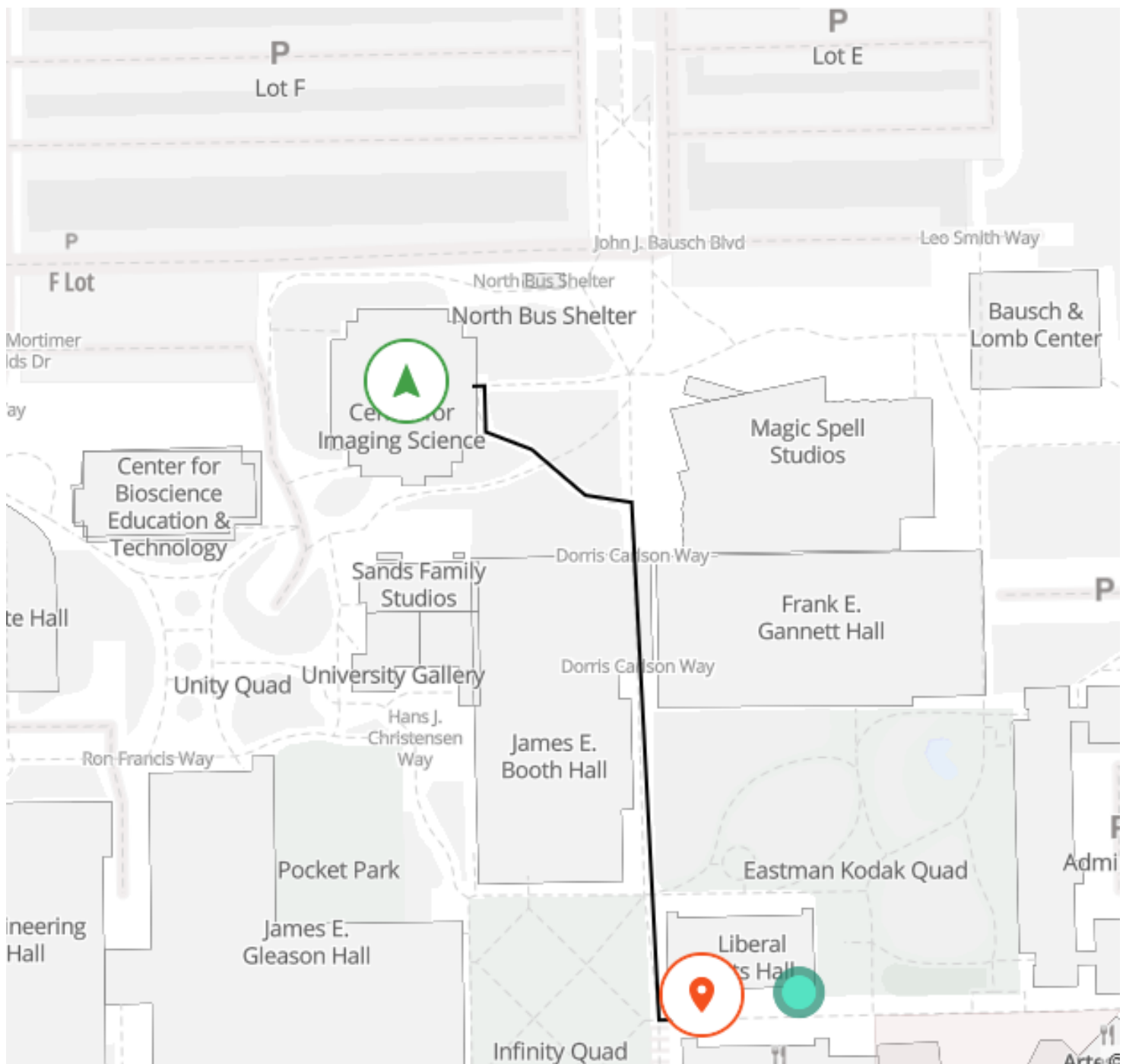
If renewing, check "new contact info" box to left if phone, email, etc. have changed since last renewal. Otherwise, check "unchgd contact info" box.  
  
 Payment methods: Pay by mail with check OR you can pay by PayPal (must include additional \$2 PayPal fee). See instructions in box to left. If paying by PayPal, this form can be mailed separately or emailed to [asraspaypal@gmail.com](mailto:asraspaypal@gmail.com).  
  
 You must join the Rochester Academy of Science PLUS individual Sections including ASRAS. Check the amount you are paying for RAS (shaded column) plus amount(s) for any Section(s) you would like to join. Check PayPal fee if paying by PayPal.

Membership Categories (Note: must pay for both RAS and section(s))	Rochester Academy of Science	Anthropology Section	Astronomy Section	Life Sciences Section	Fossil Section	Mineral Section	Subtotal(s)
Member (individual age ≥18)	<input type="checkbox"/> \$10	<input type="checkbox"/> \$2	<input type="checkbox"/> \$25	<input type="checkbox"/> \$2	<input type="checkbox"/> \$10	<input type="checkbox"/> \$5	\$
Family (includes students age <18)	<input type="checkbox"/> \$15	<input type="checkbox"/> \$3	<input type="checkbox"/> \$30	<input type="checkbox"/> \$3	<input type="checkbox"/> \$10	<input type="checkbox"/> \$6	\$
Student (age ≥18 thru full-time college undergraduate)	<input type="checkbox"/> \$5	<input type="checkbox"/> \$1	<input type="checkbox"/> \$5	<input type="checkbox"/> \$1	<input type="checkbox"/> \$5	<input type="checkbox"/> \$2	\$
Supporting (individual or family)	<input type="checkbox"/> \$20	*****	<input type="checkbox"/> \$40	<input type="checkbox"/> \$10	<input type="checkbox"/> \$20	<input type="checkbox"/> \$10	\$
Patron (individual or family)	<input type="checkbox"/> \$30	*****	<input type="checkbox"/> \$50	<input type="checkbox"/> \$20	<input type="checkbox"/> \$30	<input type="checkbox"/> \$20	\$
Life (individual only)	<input type="checkbox"/> \$200	*****	<input type="checkbox"/> \$300	<input type="checkbox"/> \$40	*****	*****	\$
PayPal fee (if paying by PayPal)	*****	*****	<input type="checkbox"/> \$2	*****	*****	*****	\$
Farash Key Payment (\$25 for initial; \$20 for renewal. NOTE: <u>must</u> be a member for 3 years and be recommended to qualify for a key.)	*****	*****	<input type="checkbox"/> \$20 or <input type="checkbox"/> \$25	*****	*****	*****	\$
Astronomical League Membership (optional \$8/year for annual renewal as an ASRAS member)	*****	*****	<input type="checkbox"/> \$8	*****	*****	*****	\$
Gift (Thank you!) Fill in amount	\$	\$	\$	\$	\$	\$	\$
TOTAL payment (remember to include \$2 PayPal fee if paying by PayPal.)	*****	*****	*****	*****	*****	*****	<b>Total Paid</b> \$
Check if you are interested in becoming a Volunteer	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	*****

If you are a new member, please tell us how you heard about ASRAS (check all that apply): ☐ ASRAS meeting or event, ☐ ASRAS website, ☐ friend, ☐ article (where? ), ☐ interest email list, ☐ other (please explain: ).

## As Noted in the Events:

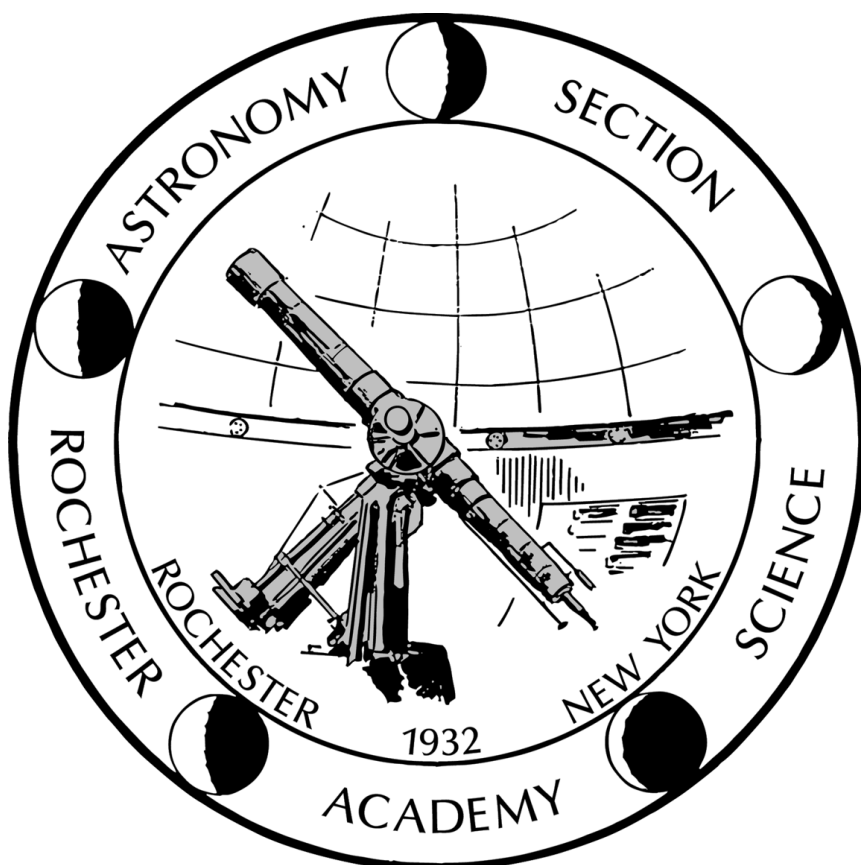
Please see the meeting location for our **November 3rd** Member meeting. We are in the **Liberal Arts (LBR) Hall, room A-205**. You can park in the same location as usual (lot F), but it is an additional three (3) minute walk than last year.  
(See map below)



# THE ROCHESTER **ASTRONOMER**

Newsletter of the Astronomy Section, Rochester Academy of Science

November 2023    Volume 42    No 3    <http://www.rochesterastronomy.org>



**The monthly publication of the Astronomy Section of the  
Rochester Academy of Science, Rochester's Astronomy Club  
Rochester, NY**

**Latitude: 43° 09' 41" North**

**Longitude: 77° 36' 21" West**

*The Rochester Astronomer* is published monthly, except in August.  
Articles may be reprinted from *The Rochester Astronomer* provided credit is  
given to the author and *The Rochester Astronomer*, including volume.

**ASRAS**

P.O. Box 20292  
Rochester, NY 14602