



## Editor's Note

Well, Fall is coming to an end and we begin to see some of our winter favorites creeping higher into our Ohio night sky! Perhaps too cold for extensive viewing, but too beautiful to resist!

Our November issue offers some interesting and important reminders for all of us!

Please check out this month's "News Notes". Dues are due and our club president will explain what changes our esteemed board has made!

The Winter Dinner is being planned for December 18. Your loyal and hard-working vice-president/newsletter editor/dinner planner gives the details below! Hope to see you all there!

Check out our upcoming speakers in the "Calendar". I think you will enjoy what is planned for this month and also for next year!

Club member Dave Watkins offers some gear for sale in the brand new "FOR SALE OR TRADE" section. This section is open for all so if you have good astronomical gear that you would like to sell or trade, you can send your submissions directly to me at [camtimothy@aol.com](mailto:camtimothy@aol.com).

As always, this is OUR club and OUR newsletter, so if there is anything that you would like to contribute, please do! Articles, items for sale, pictures are always welcome. I do run things by President Murmann to make sure that content is appropriate and family-friendly!

The CAA is now 60 years old and going strong.

Published Pictures. A couple of members have approached me with

**the suggestion that I publish picture in a larger size, one more conducive for detailed viewing. That of course uses up pages as well as ink if you are printing the newsletter. In this issue, I am publishing a shot by Dave Watkins in a larger size; please give me your feedback. Is the better view worth the extra ink and paper? Keep in mind that webmaster Jim Guilford generally publishes the same images on our club website in full resolution. Let me know what you think!**

**As always keep looking up!**

**Tim Campbell, Editor**

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## News Notes for November

### **CLUB DUES ARE DUE THIS MONTH!**

Club officers and board members have approved a suggestion by Treasurer Ron Palcic to start collecting our annual CAA dues at the same time every year at our November monthly meeting. Members who have already paid their dues for the year will have the amount due prorated. Here is information from Ron regarding the new procedure:

**The 2018 membership dues will be collected at the November meeting. As discussed at the October meeting, members who paid their dues earlier during the year will receive a pro-rated rate for 2018. The Treasurer will send an email to the members whose rate will be discounted for 2018.**

**In the future, only members who join the club during the calendar year will have their next year's rate pro-rated.**

**To expedite the payment process, it would be greatly appreciated if members would fill out the membership form and have it ready prior to the meeting.**

Our annual wallet-size CAA member cards are now being accepted as the official Observing Permits for the Cleveland Metroparks and for Letha House in the Medina County Park District. You don't need a membership card to be a CAA member. However, if you plan to observe after hours in either park system, you can pick up your 2018 member card when you pay your annual dues at our monthly meeting on Monday, November 13.

Best wishes,

--Bill  
CAA President

## **WINTER DINNER!**

This year's Winter Dinner is scheduled for Monday December 18 at Mahle's Restaurant and Bar located at 24945 Detroit Road in Westlake. Cocktails at 6, Dinner at 7. The restaurant menu is online (mahlesrestaurant.com) and we DO need you to sign up or let me know if you can make it and what you would like to order to eat! Guests are of course welcome! Separate checks! Hope you all can come out and celebrate the end of another great year of our club!

Please RSVP to me directly at [cantimothy@aol.com](mailto:cantimothy@aol.com)!

Tim Campbell

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## **CAA CALENDAR OF EVENTS**

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**Our Letha House events are finished for the year. Stay tuned for next year's exciting and very busy schedule!**

### **Speakers Scheduled through the end of 2017**

**November 13, 2017**

**Stanley K. Borowski, Assistant Engineer in Propulsion Systems and Technologies at NASA Glenn Research Center**

**"The Use of Nuclear Rocket Engines for Future Human Missions to the Moon and Mars".**

**Dr. Borowski will discuss propulsion research here at Cleveland's Glenn Research Center and how the development and use of nuclear rocket engines may change the future of manned space exploration!**

**December 18, 2017**

**There will be no meeting in December. Please plan to join us at Mahle's Restaurant in Westlake for a social dinner on Monday December 18, 2017!**

### **SPEAKERS SCHEDULED FOR 2018**

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**January 8, 2018**

**“Journey to Another Solar System!”**

**Research Astronomer & Host of WKYC’s “In The Sky”:** Jay Reynolds will discuss, how scientists are working now on a project to send high speed probes to our nearest star, with data results in less than 40 years of launch!

**February 12, 2018**

**“Parallax: How we managed to measure the distance from us to the stars!”**

**Club member and self-professed astronomy nerd Tim Campbell will follow Jay Reynolds by showing how through history, humans used cleverness, a basic principle of vision, and a succession of instruments to go from throwing spears at our food to calculating just how far away those little dots in the nighttime sky really are!**

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**Reminder: our observatory is located in the Medina County Park District's Letha House Park, 5800 Richman Rd., Chatham Twp. OH 44256.**

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## **Highlights of our November Skies**

**Our thanks to Sky & Telescope magazine and to Orion Telescopes & Binoculars for this brief list of what-to-see in November. —Bill Murmann.**

**Andromeda Galaxy—The Andromeda Galaxy is the nearest galaxy to our own Milky Way. This spiral giant is moving toward us and will eventually collide with the Milky Way in millions of years. The Andromeda Galaxy will be positioned high in the eastern sky near the constellation Andromeda in November. A 6-inch or larger scope will give the best views. It can also be seen as a fuzzy patch through binoculars.**

**Pleiades—M45, the Pleiades star cluster, is one of the gems of the fall and winter night sky. Known as the “Seven Sisters,” it can be seen with the unaided eye and looks great through binoculars or with a low-power wide field scope like the Astroscan. Look for Pleiades above the constellation Taurus the Bull.**

**Hyades**—This open star cluster is visible in the constellation Taurus overhead near the ecliptic. Look for the reddish star Aldebaran, which is considered the “eye” of Taurus the Bull. At only 153 light years from us, the Hyades is the nearest star cluster to our solar system. Binoculars or a wide-field scope will give the best view of the Hyades.

**Leonids Meteor Shower**—Around midnight on November 16 into the morning hours of November 17 will be a good time to see the annual Leonids meteor shower. Look for the meteors radiating from the constellation of Leo the Lion. The Leonids are debris left over from comet Temple-Tuttle, a short-period comet that orbits the Sun every 33 years.

**Veil Nebula**—Use an OIII filter and low power with a 4-inch or larger scope under dark skies to see this nebula on the eastern side of the constellation Cygnus the Swan. Use a star chart to locate the star 52 Cygni to help locate the Veil. Cygnus is a summer constellation that currently is setting early in the evening.

**Triangulum Galaxy (M33)**—Spotting this galaxy on the opposite side of the constellation Andromeda from the Andromeda Galaxy can be a test used to judge the darkness and transparency of an observing site. See if you can spot it from our Letha House site.

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## Club Members Photo Gallery



### NGC 7331 Deer Lick Group

We had one clear night on Friday October 20th and I was able to spend some time imaging in the driveway again.

Telescope Celestron Edge HD8 with 0.7x reducer

Camera ZWO ASI 178MM-cooled 6MP camera

Starlight Xpress Adaptive Optics

ZWO USB Filter wheel 32 x 30 sec Luminance (gain 0, offset 25)

120 x 15 sec (gain 270, offset 340) each of Red, Green, and Blue Total of 4 hours 16 minutes

Not quite enough time to bring out the faint spiral arms, or the faint distant galaxies. But the target moved behind the trees before I could finish and we haven't had a clear night since!

NGC 7331 is about 40 million light years from earth, the more faint distant galaxies (NGC 7335, 7336, 7337, and NGC 7340) are closer to 300 million light years away.

Dave Watkins

## FOR SALE OR TRADE

From Club member Dave Watkins:

I have a couple of items that I no longer use. I'm selling these items to pay for a new guiding camera. These items are lightly used and all in excellent condition.

If interested contact:

Dave Watkins

[dave@watware.com](mailto:dave@watware.com)

[dwultrabike@att.net](mailto:dwultrabike@att.net)

(330) 203-8186 mobile

1. Lumicon SCT Rear Cell Deep Sky filter  
2028 #14  
Lightly used

\$140.00

I used this when I was imaging with my DSLR. I don't really image with the DSLR on the SCT anymore so I don't have a need for this filter.

It can be used visually or for imaging.

This filter was designed to block light at wavelengths from typical sources of light pollution like mercury, sodium vapor, neon lights, and airglow.

96% transmission @ 486nm Hydrogen Beta  
97.4% transmission @ 496nm OIII  
96.3% transmission @ 501nm OIII  
94.9% transmission @ 656nm Hydrogen Alpha

This filter is designed to screw on to the rear cell of a Schmidt Cassegrain Telescope with 2 inch 24TPI threads.

When using this with a DSLR it may give a reddish cast to some of the images. That can be corrected in post processing by changing the white balance or using the SCNR tool in PixInsight. Sometimes the reddish cast can help with a Hydrogen rich target, since a DSLR tends to be weak in the Ha wavelengths.

In the box:

\* Original box

\* Lumicon Deep Sky Filter for Rear SCT Cell

2. Orion 05578 1.25 inch Extra Narrowband OIII Imaging filter  
7 nanometer FWHM band width

Lightly used

\$100.00

I am now using the Astrodon 3nm filter, so I no longer need this one.

Over 90% transmission at 500.7nm wavelength.  
Blocks all other light at wavelengths below 485nm and above 515nm  
FWHM bandwidth = 7nm

With narrowband filters you can image in heavy light pollution or even during a full moon.  
Though with OIII you will not want to image within several degrees of the full moon.

Targets like the Veil Nebula and many planetary nebula are rich in the OIII line.

In the box:

- \* Original box
- \* Original Protective plastic case
- \* Orion 1.25 inch mounted Extra Narrowband OIII 7nm filter
- \* Transmission data sheet
- \* Orion OIII manual

## Secretary's Report

### Secretary's Report

#### Cuyahoga Astronomical Association

#### General Membership Meeting Minutes: October 9, 2017 6:30 PM

**Treasurer's Report:** Treasurer's report stands as published in *The Observer*.

**Secretary's Report:** Secretary's report stands as published in *The Observer*.

#### President's Report:

- a. CAA recruited one new member this month, bringing current total to 116!
- b. All Letha House events for the year have wrapped up. The next official event is in March.
- c. Due to the Medina County Parks frequent renting of Letha House, we have already been asked to provide event dates for 2019! This will be added to the official club calendar as they are organized.
- d. A new dues policy will be implemented starting in November, where each member will pay their annual dues at this time. Because members currently have individual due dates, any payments due for the 2018 year will be pro-rated.
- e. CAA members have access to monthly NASA webinars. The next will be held on 10/17 at 9PM with the topic of NASA and social media.
- f. Our own Jay Reynolds has a periodic segment on Channel 3 titled "In the Sky." Be sure to watch for him!

- g. Please remember to check the Letha House calendar before using the observatory. CAA is not allowed to use the observatory if the building is rented for an event until after 10PM.
- h. A donation of door prizes was received late from Orion Telescopes. These items will likely be raffled off at the winter dinner.

**Vice President's Report:**

- a. Winter dinner for 2017 will be at Mahle's on 12/18. Menu options will be sent out via club e-mail. Sign up with Tim Campbell.

**Observatory Director's Report:**

- a. All equipment in the observatory is currently functioning and ready for use.

**No old business to discuss**

**No new business to discuss**

**Observation reports were given.**

**Meeting Adjourned 9:00 PM**

**Trevor Braun, Secretary**

## Treasurer's Report

<b>CAA Financial Report</b>	<b>Oct-17</b>
Beginning Bank Bal.	7,721.29
Beginning Petty Cash	<u>420.86</u>
Total Beginning Cash	8,142.15
<b>Income - Bank</b>	
Memberships	155.00
Prepaid Magazine Subscriptions	133.90
Interest	0.06
Donations	475.00
Cash Transfer	111.00
<b>Income - Petty Cash</b>	
Donations	55.30
Membership	75.00
<b>Expenses - Bank</b>	
CAA Newsletter & Copies	23.44
Copies/Namecard Holders	71.61
Magazine Expense	133.90
<b>Expenses - Petty Cash</b>	
Refreshments	23.97
Cash Transfer	111.00
Net Bank	8,367.30
Net Petty Cash	<u>416.19</u>
Total	<u><u>8,783.49</u></u>

**Ron Palcic, Treasurer**

## Club Contacts

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