

*** CAS ***

Charlottesville Astronomical Society Monthly Meeting



February 3, 2016

 ***WELCOME!******NEW MEMBERS AND GUESTS***

- **New Members**
 - **Andrew S. Johnston**
 - **Bill Dannermann**
 - **Others?**
- **Guests?**

Agenda

- **Welcome ~ New Members and Guests**
- **Heidi Winter Memorial Lecture**
- **Club Business**
 - Financial and Membership Status
 - Membership Benefits
 - Equipment Discounts
 - 2016 CAS Organization, Special Election – Appointed Offices
 - Astronomical League Awards
- **Member Activities**
 - Club Observing
 - Monthly Meetings, Field Trips, Retreats, and Special Events
 - Mentoring, Training, and Certification
 - Club Loaner Equipment
 - Web Site
- **CAS Outreach Activities**
- **Comments and Questions?**
- **Door Prize Drawing**
- **Closing Thoughts**



Heidi Winter Memorial Lecture

Steve Layman



- **CAS Outreach Director** – 2015-Present
- **Co-Lecturer** - Albemarle County's Open Doors Astronomy Class
- **AL Awards** - Basic & Stellar Outreach; Binocular Messier
- **Charlottesville Municipal Band Director** - 40+ concerts annually
- **Municipal Arts Center Manager** - \$1.4 million area resource
- **Nationally Registered Music Educator** – Masters, Music – Univ. of Kentucky; Bachelors, Music Ed. - Ohio Northern Univ.
- **Awards** - John Philip Sousa Citation; 1996 Piedmont Council for the Arts Education Award; two Virginia Governor's School President's Citations
- **Member** - Kappa Kappa Psi Band Fraternity; Music Honorary, Phi Kappa Lambda
- **UVA's Symphonic Band and Brass Ensemble Director** - 1984-90
- **Currently, Adjunct Music Faculty Member** - Piedmont Virginia Community College

***Plus Five-Terms as CAS President
and One-Term as Vice-President!***

Club Business




Financial and Membership Status

a/o January 31, 2016

- CAS Checking Account Balance : \$5058.57
- Uncleared Checks : \$13.17
- Net Balance : \$5,045.40
- Petty Cash : \$112.00
- **Total CAS Cash Assets :** **\$5,157.40**
- **New Members:** 1
- CAS Memberships:
 - Individual 33
 - Family 13
 - Senior 34
 - Student/Military 2
 - Educators 6
 - # of Memberships 88
- **Total Members* 101** (* Includes one additional person per family membership)

Michael Hegedus, CAS Treasurer
February 1, 2016

A stylized, low-poly mountain range graphic in shades of brown and tan, positioned at the bottom of the slide against a blue gradient background.

Membership Benefits

- ***Club Observing at Private and Restricted Dark Sky Sites***
- ***Club Retreats and Special Events (e.g. 8/21/2017 solar eclipse)***
- ***Club Field Trips***
- ***Club Social Events***
 - *Family Day: Monthly Mtg at JMU's John C. Wells Planetarium (Sun. June 5th at 2 PM)*
 - *Picnic (tentative, July – August timeframe, tbd)*
 - *Christmas Party (December tbd)*
- ***Club Mentoring, Training, and Certification Program***
 - *26" Clark Refractor Operator Training & Certification*
 - *New/Novice Member Mentoring Program (e.g., the purchase and use of astronomical telescopes, celestial navigation, how to read star charts, how to locate/identify galaxies, nebulae, and star clusters generally not visible to the naked eye, etc.)*
- ***Club Loaner Equipment***
- ***Club Monthly Meetings and Guest Speakers***
- ***Membership in the Astronomical League***
- ***Membership in the International Dark Sky Association***
- ***Discounts***
 - *Astronomy and Sky and Telescope Magazine Subscriptionss*
 - *Equipment at Selected Manufacturers and Retailers*



Equipment Discounts

- **OPT (Oceanside Photo and Telescope)** (Call 800-483-6287 - Mention Charlottesville Astronomical Society) Publicized Discounts are:
 - 2% - Mounts
 - 10% - TPO Accessories
 - 5% - Everything Else
- **iOptron** <http://www.ioptron.com/> - Club members can save 5% off the regular price for a limited time (US and Canada only) when five (5) or more members make purchases in the same week. Just type “Charlottesville Astronomical Society” club name in the notes when ordering.

Where do you shop and what manufacturers and retailers would you like to see included on this list?

See Fritz



2016 CAS Organization

Special Election – “Appointed Offices”

- **Officers (*elected and appointed*)**

- Fritz Repich, President
- Rich Drumm, Vice-President, (*advocate for CAS Member Observing activities*)
- Larry Saunders, Secretary
- Michael Hegedus, Treasurer
- *Steve Layman, Director, Outreach (*advocate for CAS Outreach activities, events, and programs*)
- *Ed Preston, Custodian, Club Equipment (*advocate for members use of CAS loaner equipment*)
- *Marianne Kish, Director, Member Mentoring, Training, and Certification (*advocate for CAS Member mentoring, training, and certification*)

- **Executive Council**

- Consists of the four elected officers and the three, at-large, appointed members

* **Appointed Office**

A stylized, low-poly mountain range graphic in shades of brown and tan, spanning the bottom of the slide.

Astronomical League (AL) Awards

- **AL Messier Object Observing, see:**
<https://www.astroleague.org/al/obsclubs/messier/mess.html>
- **AL Outreach Award Requirements**
 - *Five 2-hour outreach sessions*
 - *Document using an AL spreadsheet*
 - *Confirm with club officer*



Member Activities

Club Observing



Six Local Observing Sites

- **Three Residential**
 - Rich Drumm's Farm
 - Susan Bender's Farm
 - John Avellone's Spontaneous Star Parties
- **One Private**
 - Market at Grelen – (*Scott Duresky*)
- **Two Restricted**
 - Leander McCormick Observatory – (*Rich Drumm and Fritz Repich*)
 - Fan Mountain Observatory – (*Rich Drumm and Fritz Repich*)



Two Retreat Observing Sites

- **Fan Mountain** - *Rich Drumm, Coordinator*
- **Bear Mountain** – *Scott Duresky, Coordinator*



February 2016 ~ “What’s Up”

- https://www.youtube.com/watch?v=EOo_qBNWpbc



Upcoming Club Observing

- **Saturday February 6, 2016, 5PM-10PM**, Club Observing at Susan's Farm (New Moon)
- **Wednesday, February 17, 2016, 5PM-10PM**, Club Observing at Rich's Farm, Lombardi Observatory, (1st Quarter Moon)
- **Tuesday, March 8, 2016, 5PM-10PM**, Club Observing at Susan's Farm (New Moon)
- **Saturday, April 2, 2016, 7-11PM**, Messier Stroll/Walk and Member Observing at Rich's Farm



Saturday, February 6th

Observe/Cancel Decision: Susan Bender and Rich Drumm

Club Observing, 5 PM – 11 PM

Susan's Farm

New Moon

New Moon	First Quarter	Full Moon	Third Quarter
<i>Jan 9, Sat, 20:31</i>	<i>Jan 16, Sat, 18:27</i>	<i>Jan 23, Sat, 20:46</i>	<i>Jan 31, Sun, 22:29</i>
Feb 8, Mon 09:40	<i>Feb. 15 Mon. 02:47</i>	<i>Feb. 22 Mon. 13:20</i>	<i>Mar 1, Tues, 18:12</i>

- Directions: Susan Bender's Farm - 3129 Old Lynchburg Road, North Garden, VA ~** *Coming from Charlottesville, South on US 29, turn left at Rt 708, turn right at 4-way stop, go 1.9 miles and turn left into the driveway and pick your place in the field*



Wednesday, February 17th

Observe/Cancel Decision: Rich Drumm

Club Observing, 5 PM – 11 PM

Rich's Farm

First Quarter Moon

New Moon	First Quarter	Full Moon	Third Quarter
<i>Jan 9, Sat, 20:31</i>	<i>Jan 16, Sat, 18:27</i>	<i>Jan 23, Sat, 20:46</i>	<i>Jan 31, Sun, 22:29</i>
<i>Feb 8, Mon 09:40</i>	Feb. 15 Mon. 02:47	<i>Feb. 22 Mon. 13:20</i>	<i>Mar 1, Tues, 18:12</i>

Directions: Rich Drumm's Farm – Lombardi Observatory,
3140 Burnley Station Road, Barboursville, VA ~ *Coming from*
Charlottesville, North on US 29, turn right at Burnley Station Road (shortly after Proffit
Road), 3140 will be on the left – Leo's trailer (Lombardi Observatory will be in the field)



Member Activities

*Monthly Meetings, Field Trips, Retreats,
and Special Events*



Upcoming Member Activities

- **Thursday, February 11, 2016, 7PM-9PM**, Ms. Jill Prince, Chief Engineer, NASA/Langley Research Center, Destination Mars: Journey to the Red Planet! Wilson Hall Auditorium, JMU, Harrisonburg
- **Saturday, February 13, 2016, 10AM – 12 Noon**, 26” Clark Refractor Operator Training & Certification at LMO
- **Wednesday, March 2, 2016, 7-10PM**, CAS Monthly Meeting at LMO
- **Wednesday, April 6, 2016, 7-10PM**, CAS Monthly Meeting at LMO
- **Thursday- Friday, April 7-8, 2016**, Northeast Astro-Imaging Conference, at Crowne Plaza Conference Center, Suffern, NY
- **Friday-Sunday, April 8-10, 2016**, Northeast Astronomy Forum, at SUNY Rockland Community College, Suffern, NY



2016 Monthly Meeting Schedule

- **Mar 2, 2016, LMO** – Ed Preston, CAS Member, “The Cosmic Distance Ladder”
- **Apr 6, 2016, LMO** – Trey Wenger, UVA Graduate Student
- **May 4, 2016, LMO** – Nicholas Troup, 4th Yr, UVA Grad Student, “Combing the Brown Dwarf Desert with APOGEE”
- **Jun 5, 2016, JMU** – CAS Family Day, Sunday - 2 PM, JMU’s John C. Wells Planetarium
- **July 6, 2016, LMO** – Sabrina Stierwalt, Astrophysicist, UVA, NRAO (“ALMA Telescope, Chile” or “About Galaxy Mergers”)

Guest Speakers for the August - December 2016 Monthly Meetings are actively sought, if you know of potential speakers please see or contact me.



Field Trips

- **How Many?** 1 to 2 per Year
- **When?** Weekday in April, May, June, August, or September
- **Where?**
 - NASA Goddard (via Dave Rossetter's contact)
 - NASA Wallops Island (via Dave Rossetter's contact)
 - Orbital Sciences (via Marilyn Kozak's contact)
 - Green Bank, WV, NRAO (Via Fritz) – Combine with Retreat to Bear Mountain (coordinate w/Scott Duresky)

Field Trips to NASA Goddard, Wallops Island, and Orbital Sciences are being pursued for this Spring (April, May, June) – more to come at the March Meeting



Retreats

- **How Many?** 1 to 2 per Year
- **When?** A weekend (Friday dusk to Sunday morning)
 - Spring (May or June)
 - Early Fall (September or October)
- **Where?**
 - Fan Mountain - Rich Drumm
 - Bear Mountain – Scott Duresky (Combine with Field Trip to Green Bank – NRAO)



2016-17 Special Events

- **JMU Planetarium Family Day** 2-5 PM, Sunday, June 5, 2016
- **Family Picnic-Star Party** – to be scheduled for July or Aug 2016, 7-11 PM
- **Christmas Party**, Friday ??, 7-9 PM, to be scheduled for early December 2016
- **Solar Eclipse**, Monday, Aug 21, 2017 – Hopkinsville, KY area, Pennyryle Forest State Resort Park (*Dave Miller and John Lynch coordinating reservations*)



Member Activities

Mentoring, Training, and Certification



Clark 26" Refractor Operator Training & Certification

Saturday, February 13, 2016, 10 AM - Noon

- **Certification/Recertification Indoctrination:** *Dr. Ed Murphy and Dr. Ricky Patterson provide "Recertification Training" to Certified CAS 26" Operators and Initial Indoctrination to CAS Candidate Operators*
- **CAS Mentor (Recertified Operator)** *Assigned to each CAS Candidate Operator for Several OJT Sessions*
- **Candidate Operators,** *After Successful OJT Completion, Solo under Mentor Supervision at an Outreach Event*

***Candidate Operators become Certified Clark 26"
Refractor Operators after a Successful Solo***



New/Novice Member

~ Mentoring and Training

- **Volunteer Mentors (7)**

- Steve Layman
- Wes Epperly
- Bill Phillips
- Allan Mayer
- Rich Drumm
- Ed Preston
- Karl Stein

- **New/Novice Members**

- Jane and Bill Clarke
- Carolyn Chionchio
- Ed Tourangeau
- And any member with an unused telescope in a closet or garage

Assigned Mentor and New/Novice Member get together at a club observing activity for Astronomy 101 training and hands-on OJT sessions



Member Activities

Club Loaner Equipment



Club Loaner Equipment

- **Club Equipment Status as of Feb 1, 2016**
- **What's Available for Member Check-out?**

<http://cvilleastro.com/club-telescopes-available-for-club-member-use/>

- **Contact Ed Preston to Checkout Club Equipment or for additional information**



Member Activities

Web Site



CAS Web Site Status

- **Larry Saunders will conduct Course on Website Management**
 - Interested Members?
- **Calendar Updates**
 - Member Activities
 - CAS Outreach Activities
 - NRAO and UVA Colloquium – Live and Video
 - UVA and JMU Lecture Schedules
- **Solar and Lunar Live Feeds**
- **Other???**



CAS Outreach Activities



Upcoming Outreach Activities

- **February 5, 2016 , 7-10PM**, 1st Fridays at Ivy Creek - **Steve**
- **February 20, 2016, 10AM-3PM**, KidVention, Discovery Museum, Charlottesville - Solar observation (weather permitting) and literature/information table - **Steve**
- **March 5, 2016, 1-4PM**, Ruckersville, Elementary School Science Exposition - **Rich**
- **March 24, 2015, 9AM-3PM**, VPRS Fair, JPJ Arena (Judge Physics and Astronomy category exhibits) - **Steve**
- **April, 1, 2016, 7-10PM**, 1st Fridays at Ivy Creek - **Steve**
- **April 8, 2016, 6-11PM**, UVA Public Night at Fan Mt - **Rich**
- **April 29, 2016, 7-10PM**, Heidi's Night at LMO - **Steve**
- **May 12, 2016, 7-10PM**, Astronomy Night at JMRL Northside Branch - **Fritz**
- **May 14, 2016, 10AM-10PM**, Astronomy Day at LMO - **Steve**



Comments and Questions?



Door Prize Drawing

*Did you enter
your name for
the door prize
drawing?*



Closing Thoughts

- *“I never said most of the things I said.”*
~ Yogi Berra
- *“We are all here on earth to help others; what on earth the others are here for I don't know.”*
~ W. H. Auden
- *“If you haven't got anything nice to say about anybody, come sit next to me.”*
~ Alice Roosevelt Longworth

