THE EVENT HORIZON

ST. LOUIS ASTRONOMICAL SOCIETY

Devoted to the Interest and Advancement of the Science of Astronomy

VOLUME 29, Issue 3
March, 2019

Rocks From Outer Space

by

Bruce Stinchcomb
Florissant Valley Community College

Professor Bruce Stinchcomb of Florissant Valley Community College, will be featured at the March meeting of the Saint Louis Astronomical Society. The meeting will begin at 7:30 PM Friday, March 15 in McDonnell Hall, Room 162, on the Washington University campus, Saint Louis, MO 63105.

Meteorites are the pieces that remain after a chunk of metal or stone smashes into the Earth. Most of the material that bombards our planet every day is about the size of the head of a pin, or smaller. These meteoroids hit the upper atmosphere at speeds of thousands of miles per hour and vaporize, causing the air around them to glow. We see the glowing streaks as meteors. Perhaps two dozen rocks from outer space each year are large enough that some pieces survive their passage through the atmosphere to strike the surface. Professor Stinchcomb will talk about the different kinds of meteorites and where they come from. He will also explain what these space rocks reveal about the early history of the Earth, Moon, and other solar system objects.

Bruce Stinchcomb is a retired Professor at Saint Louis Community College at Florissant Valley. In addition to a long teaching career, Dr. Stinchcomb is the author of several books about meteorites and about fossils.

Presentations for 2019
April Bob King "Astro Bob" (1)
May Craig O'Mara Flying SOFIA NASA
June Josiah Lewis, PhD
Presolar Grains: Solids from Other Stars Wash U
July TBA
August Angela Speck, PhD
2019 Solar Eclipse Results University of Missouri
September Don Hampton,PhD
Aurora Borealis & Steve (1) UAF
October Claire Chandler, PhD Super-Earths and the Formation of the Solar System NRAO
December Duncan Lorimer, PhD
Fast Radio Bursts: "Lorimer Bursts" (1) UWVA
(1) Skype event UAF: University of Alaska: Fairbanks UWVA: University of West Virginia

Outreach Awards for 2018

Awards for Volunteers for Outreach for 2018 to be Presented at the March Meeting

(please check to see if you are on the list!)

At the March meeting, awards for outreach volunteers for 2018 will be presented. At the meeting, Night Sky Network pins and certificates will be given to all members who volunteered at 5 or more events. In addition, Bill Neubert will be presenting an additional gift of a water bottle to the awardees. If you are on the list below, it would be great if you could attend the meeting so we may make the presentation to as many volunteers at once! The awards were moved to March because of the inclement weather we were having in February

In 2018, SLAS members volunteered for 138 events and logged 1350 hrs for NSN events
214 events and logged 1658 hrs in 2017
159 events and logged 1620 hrs in 2016
102 events and 1430 hrs in 2015
72 events and 736 hrs in 2014
59 events and 716 hrs in 2013
Since June 2007 SLAS members have logged 9736 hrs for NSN events

Scroll down to page 2 for the full list of volunteers for last year.

(Continued on page 2)

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Presidents Corner *by* Jim Small

The March meeting will feature Bruce Stinchcomb talking about Meteorites. We will also be awarding the Night Sky Network pins and certificates as well as other awards. Many thanks to Bill Neubert for providing additional COOL gifts for our outreach stars!

Homemade Fest was great again this year with lots of good food and plenty of talks! Thanks to all the speakers and we will make it up to Jim and Bill as we ran out of time! The weather was a factor in both the February meeting and Homemade Fest. Again, MANY thanks to Kirkwood Parks for providing the space for our event once again.,

MSRAL is coming up June 14-16 in Kansas City. Watch for registration information to be available soon.

ALCON 2019 will be July 25-29. The league has procured a good deal on a cruise to the Bahamas for the weekend leaving from Cape Kennedy. Tours of the Kennedy Space Center will be part of the convention. I'm excited to be attending this event. Can't wait for the behind the scenes tour of Kennedy Space Center and the trip to the Bahamas!

If you missed Apollo 11 at the IMAX a couple of weeks ago, at least see it at the regular theater while it's still showing. I've been a big fan of several movies about the Apollo missions, but this is the best film ever. It's all original NASA film, including film never before seen, a lot of it shot on 65 mm film! Favorite scenes were the Saturn V liftoff and never before seen footage of reentry from INSIDE the capsule! Go see it Tuesday for $5!

(Continued from page 1)

Volunteer Hours for 2018

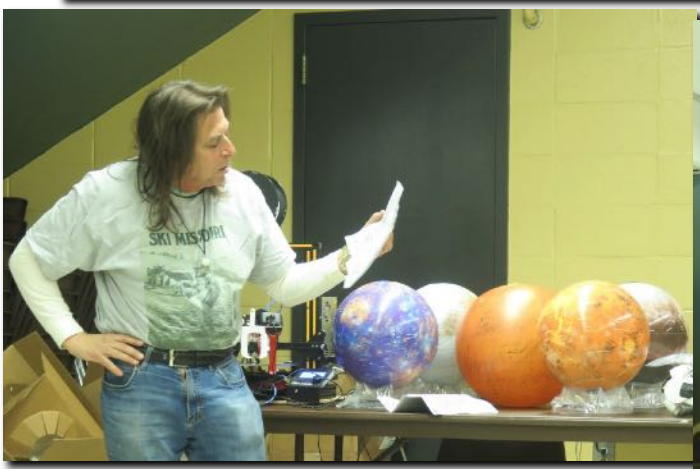
We are hoping 2019 brings in even more volunteers that qualify for outreach awards. See the calendar to select star parties for which you can volunteer.

Donald Ficken	79	events	195.5	hours
Cook Feldman	56	events	178.5	hours
Bradley Waller	52	events	146	hours
Mark Jones	28	events	87.5	hours
Richard Jennings	22	events	58.5	hours
James Small	16	events	53.5	hours
John Beaury	16	events	51.5	hours-
Richard Fefferman	18	events	49	hours
Bill Breeden	13	events	45.5	hours
Larry Campbell	18	events	41.5	hours
Rita Breeden	11	events	39.5	hours
William Neubert	9	events	33.5	hours
Frank Mack	15	events	33.1	hours
Sharon Bertram	15	events	32.5	hours
Raymond Mueller	9	events	28.5	hours
Shanna Ramirez	8	events	23	hours
Rick Menendez	8	events	22	hours
Rich Heuermann	5	events	21	hours
Alfred Schovanez	4	events	19	hours
Charles Laughton	6	events	18.5	hours
Ann Trull	5	events	17	hours
Jim Trull	5	events	17	hours
Opal Andrews	4	events	15.5	hours
Brent Buch	3	events	10	hours
Carl McCullough	3	events	10	hours-
Phyllis Nolan	4	events	9.5	hours
Robert Drzymala	3	events	9.5	hours
Ramesh Babu Nagarajan	3	events	8.5	hours
Tom Keutzer	3	events	7	hours
John Strebeck	2	events	7	hours
Alan Whitson	2	events	6.5	hours
David Barry	2	events	6	hours
William Winningham	2	events	6	hours
John Duchek	3	events	5.5	hours
Maryanne Angliongto	2	events	5.5	hours
Rebecca Schroeter	1	events	4.5	hours
Brian Mills	1	events	4	hours
Daniel Maloney	1	events	4	hours
Marc Sandberg	1	events	4	hours
Murray Fishman	1	events	3	hours
Daniel Tadrick	1	events	2.5	hours
Louise Davison	1	events	2.5	hours
John Newcomer	1	events	2	hours
Lance Traylor	1	events	2	hours-
Mark Goldenberg	1	events	2	hours
Benjamin Winningham	1.5	events	1.5	hours

From the Editor: Corrections and Additions

In the January issue, we published photographs of the lunar eclipse from the niece of member John King. Here we would like to publish full credit for the photos. Her name is Erin McKenna and the photos were taken from her home in Westminster, Massachusetts. John says: "She wrote "I froze my batooski off." Yeah she had clear skies with a temperature down around zero (0) with the wind blowing. Wind chill was about minus -30. That's dedication." John also says: "My name should not have been on those photos. I was here and inside where is was nice and warm. LOL" Thanks to Erin and John for sharing the photos with us!

Last month, we published a nice article by Carl Masthay with some etymology. Unfortunately, due to lack of room, we published the photograph at a ridiculously small size. We are republishing the article with a full size photo this time so it is much more presentable. Apologies to Carl for the error. I hope you enjoy the more presentable article this month!



Top left: Display at the Twin Chimneys STEAM event.

Top right: Thane Bopp shows off one of his gadgets at Homemade Fest, a pair of binoculars with a wide angle view.

Middle: Grant Martin explains how a fork mount from a C8 can be modified.

Above left: Rick Menendez shows some of the new globes he uses to talk about the solar system, including Mercury and Europa

Above right: Carl Masthay shows off some of his early artwork

Top left: Talking with patrons at the science center.

Top right: On the archery field during the SLSC Public telescope viewing

Above left: Mike Malolepszy talking about submillimeter observations to a sparse February crowd.

Above right: Mike M. in a mug shot with Bradley Waller

Left: Mark Jones and Cook Feldman work with Library Telescope mirrors

Below left: Mark Jones with his new glove box for handling meteorites at LaSalle Springs Middle School

Below center: Jim Small with a view of the Pleiades in 20 degree weather at LaSalle. Heated coats are great!

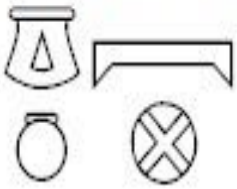
Below right: John Beaury discussing library telescope eyepieces with Randy Harrison

About Canopus

I just saw Fred Schaaf's article "The second star" in *Sky and Telescope*, Feb. 2019, p. 45, about the star Canopus, Alpha Carinae, in which he states that next month's *S&T* article will be a follow-up on the origin of the name and so forth. Alas, I may be too late to have the following information included in that next column because it may already have been typeset and laid out, but here it is, and I hope it can be included if not then later as a letter to the editor:

Paul Kunitzsch and Tim Smart's *Short guide to modern star names and their derivations*, Wiesbaden, 1986, Otto Harrassowitz, on p. 25, shows the following:
α Canopus (kŭ nŏ' pŭs): From its ancient Greek name Κάνωβος (Ptolemy's spelling), an untranslated proper name that was introduced rather late into Greek astronomy (perhaps in the 2nd century B.C.). There seems to be Egyptian influences in the name's development. Reapplied in Renaissance times.

There is in E.A. Wallis Budge's 2-volume *An Egyptian hieroglyphic dictionary*, London, 1920, John Murray (New York, 1978, Dover Publications, Inc.) on page 1049b the town name
Canopus = Genp



Genp (Gardiner's German-derived transcription: *gnpt*), that is, *gnp(t)* + unpronounced determinative *niwt* (*nut*) 'town, village with crossroads'. That's the phonetic transcription, but literally the ideograms are *nst* (*nes-t*) *nw* (*nu*) *pt* (*pet*) = *nest nu pet* = 'seat of heaven', which can indicate "the second star" in the night sky, an important star in Egyptian mythology.

Carl Masthay, retired medical editor, linguist, Algonquianist
838 Larkin Ave., Creve Coeur (St. Louis), MO 63141-7758, USA, cmasthay@juno.com 314-432-4231.

178

179

['? + stellar constellation' *? + najmī burju*]

180

181

[From J.M. Rogers, editor of and translator from Turkish of Filiz Çağman and Zeren Tanındı: *The Topkapı Saray Museum: The Albums and Illustrated Manuscripts*, Boston, 1980, Little, Brown and Company] [p. 256]

The seventeenth and eighteenth centuries and Westernization [Constellation artwork during Ottoman Turkish times]

178–181

Star-pictures from al-ʿAynī, *ʿIqd al-Jumān fī Tārīkh Ahl al-Zamān*, dated 1160/1747–8, copied by Baltacı Ibrāhīm b. Ḥācī Meḥmed b. Khalīl; B.274.

178 Ursa Minor and Ursa Major, diameter 10·5 cm; and Draco, 7·4 × 12·7 cm; f. 19a. [and Draco]

179 Equus, 10 × 12·5 cm; and Equus Major, 11 × 12·5 cm; f. 22b.

180 Taurus, 8·4 × 12·5 cm; and Gemini, 9 × 12·5 cm; f. 26b.

181 Libra, 11 × 12·5 cm; and Scorpio, 10·5 × 12·5 cm; f. 28a.

The *ʿIqd al-Jumān*, an encyclopaedic work by the Mamlūk author, Abū Muḥammad Maḥmūd b. Aḥmad al-ʿAynī (died 1451) was translated into Ottoman Turkish by Muḥammad Emīn al-Üsküdārī. This work was copied in three volumes in 1104/1692–3 (Istanbul University Library, T.5953) and the first volume was given star-pictures after Western European models. These were the source of the later copy in the Topkapı Saray Library (B.274). The illustrations may have been derived from a celestial globe. On the other hand, they may derive from the *Atlas Major* of Willem and Jean Blaeu (1662), which, as usual, contained various star-maps and constellation figures – a work which was presented to Sultan Meḥmed IV (1648–87) and translated into Ottoman Turkish by Ebu Bekir Efendi. Its influence was long-lasting for it was one of the works printed by Ibrahim Müteferrika at his press in Istanbul.

☐ Günsel Renda, *Batılaşma döneminde Türk resim sanatı: 1700–1850* (Ankara 1977), 32–3, 43–4; F. Edhem and I. Stchoukine, *Les manuscrits orientaux illustrés de la Bibliothèque de l'Université de Stamboul* (Paris 1933), 21–2; Georg Thiele, *Antike Himmelsbilder. Mit Forschungen zu Hipparchos, Aratos und seinen Fortsetzern, und Beiträge zur Kunstgeschichte des Sternhimmels* (Berlin 1898).

['Necklace of Pearls in the History of Contemporary people']

ALCon 2019 - July 25-29, 2019
Kennedy Space Center,FL
and Southern Skies Cruise
to Bahamas

https://www.astroleague.org/images/solar/alcon-2019-july-25-29-2019-kennedy-space-centerfl-and-southern-skies-cruise-bahamas

Join the Astronomical League to commemorate the 50th anniversary of the first moon landing! First, tour the Kennedy Space Center, the site of the Apollo 11 launch. Then, enjoy a three-day cruise to the Bahamas on a ship by Royal Caribbean and see the southern Milky Way of Sagittarius and Scorpius! Thursday July 25, after the KSC tour, stay onshore at a hotel in Titusville (to be arranged).

You will need a passport valid through January 2020 or later. (Yes, at least six months after the cruise!)

Royal Caribbean cruise ship leaves Port Canaveral Friday afternoon July 26 and returns Monday morning July 29.

Cruise cabins are limited. Reservations are being accepted, with a $100 initial down payment. Pricing (based on double occupancy) for the whole weekend cruise including meals is set at $399 per person (PP) for inside cabins, $579 PP for outside cabins, and $589 PP for Balcony cabins. Singles, triples, and quad rates are available upon request with our agent.Members of the Astronomical League only: To reserve your cabin with a $100 deposit, and for additional cruise details, please contact Marsha at Lin-Mar Travel, 631-736-1049 or marsha@travelwithlin-mar.com.

St. Louis Astronomical Society Executive Board Meeting Minutes February 7, 2019

1. Opening Activities: Attending: Jim Small, Larry Campbell, Tom Nickelson, Bradley R Waller, Brent Buch, Mark Jones, Bill Winningham Meeting called to order 7:07pm January minutes were distributed before the Feb meeting. Motion to accept the January minutes made by Tom N. second by Bill W. Minutes approved

2. External Business: Science Center Liaison: From Cook Feldman: You may want to start thinking about someone to take over acting as the liaison and lead for the events at the SLSC. I have been doing it for going on 26 years and it may be the time to pass the baton at the end of 2019.Cook recommended it not be a Board member. Publish in newsletter **Next board meeting:** Meetings posted on NSN Board meetings will be held at Nicoletti's Restaurant in Valley Park until further notice. Dates left for 2019: March 7, April 4, May 2, Jun 6, July 11 (4th is 1st Thursday), Aug 1, Sept 5, Oct 3, Nov 7, Dec 5

3. Director Reports: President: Jim Small Homemade Fest will be Saturday, Feb 16, at Kirkwood Community Center, doors open at 4pm, need to be out by 11pm. Brad Waller will MC the event again this year. Budget for the event is $100. Brad will buy the door prizes. Rich H. will provide the video projector, screen and laptop. Larry C. will provide the paper goods and drinks. Tom N will bring the ice. February SLAS meeting, plan to hand out NSN pins and certificates. Mark J. and Brad will print the certificates.

Vice President: Bradley R Waller Brad is looking for attendance prize suggestions Moon Card SLAS brochure ¼ card. Originally brought 4000. Inventory is low. We need to order more for upcoming outreach season. Printer might be able to print 4 different photos for same price. Need ideas for new photos We might have a replacement for Astro Bob if he cannot do a video presentation. Possibility one of Dr. Gibb's students Also Jim Small has some astronaut contact info to send to Brad.

SLAS Monthly Meetings **Presentations 2019**

Month		Name	Topic	Sponsor
15-Feb-2019		K Michael Malolepszy	Probing the Sub-Microwave Universe	SLAS
15-Mar-2019		Bruce Stinchcomb, PhD	Meteorites	Flo-Valley
19-Apr-2019	*	Bob King	"Astro Bob"	
17-May-2019		Craig O'Mara	Flying SOFIA	NASA
21-Jun-2019		Josiah Lewis, PhD	Pre-Solar Grains: Solids from Other Stars Studied in the Lab	Wash U
19-Jul-2019				
16-Aug-2019		Angela Speck, PhD	2019 Solar Eclipse Results	Mizzou
20-Sep-2019	*	Don Hampton, PhD	Aurora Borealis & Steve	UAF
19-Oct-2019		Abigale Bollenbach	Hubble and His Telescope	Bartlesville Astronomical Society
15-Nov-2019	*	Claire Chandler, PhD	Super-Earths and the Formation of the Solar System	NRAO
20-Dec-2019	*	Duncan Lorimer, PhD	Fast Radio Bursts: "Lorimer Bursts"	UWVA

*Skype Event NRAO: National Radio Astronomy Observatory UAF: Univ of Alaska: Fairbanks UWVA: Univ of West Virginia

***Astro 101:** Mark Jones 2019 events *Welcome Aboard Meetings for new members are still planned for each month.

Secretary: Mark Jones: Jefferson College Observatory status. **Jefferson College Observatory Task Force** The Jefferson College (JC) Board meeting is scheduled for Thursday, February 14 at 5:30 p.m. Trish Aumann will be presenting an overview about the Capital Improvement projects which received funding for 2019. After this meeting, it will be completely official, full-steam ahead, we may publicly promote the Jefferson College and SLAS partnership and observatory plans, give interviews and write articles, fund-raise, etc. The timeline for all of those funds is July 1, 2019 - June 30, 2020. The observatory project is funded at $37,900. The observatory Task Force can begin the planning and bid process without having to present to the JC Board. Our observatory task force will meet again soon, and include Dale from JC Building and Grounds department and the architect firm, so that we can hash out what all is included in the first phase. The Buildings and Grounds department has foam-board renditions from the architects that we can borrow

Treasurer/ALCor: Bill Winningham Bill has 2019 SLAS budget setup in Quickbooks. Sold one loaner scope. We are getting bad customer service from Kahlbach Publishing during the last 4 months. Kahlbach Website isn't working, phone customer service terrible. Astronomy price keeps fluctuating. Renewed one SLAS Certificate of Deposit for 13 months

Hospitality: Larry Campbell Need to buy more soda to cover Homemade Fest and SLAS meetings. Bill W is mailing out the remainder of the 2018 member recognition pins with any renewals.

Membership Recognition:

Board Member at Large Reports

Rich Heuermann (2019) Rich has placed McDonnell Hall room reservations requests for February through May with the Earth and Planetary Sciences department. Rich will relay a conformation notice to Jim once received. Don Ficken is setting up Library lecture and lecture/demonstration programs for the summer. These are one-hour programs to be given by any of several vetted SLAS persons on night sky orientation or exploring the Moon, including coverage of the Apollo 11 Moon landing. Rich will provide a PowerPoint version of each program with some (not extensive) notes. Demonstrations can, at presenter's option, utilize any of several Night Sky kits that SLAS has copies of. Each presenter modifies the programs to individual taste, within the general description given to the library system coordinators. There will also be some ancillary programs on different topics that Rich will do. The topics picked by the County Libraries are "A Tourist's Guide to Mars" and "A Warp-10 Tour of the Universe".) Don has already scheduled most of the summer sessions with the St. Louis County Library system. The St. Charles group will also do some of these programs for their area. Don will send them the PowerPoints and provide some training.

Tom Nickelson (2020) No Report

Brent Buch (2021) Video update for website. Draft terms and conditions for site included in separate report. Please find the attached Draft Terms and Conditions for advanced consideration before this week's board meeting. Unless something comes up at work I do plan to be at the meeting. **Motion to approve by Jim second by Larry. Motion passed**

Draft of Terms and Conditions for the use of SLAS Meeting Video website -- 2/7/2019 The following is provided for consideration, feedback and additions by the board in preparation of future SLAS Meeting Video website deployment. Thanks – Brent Buch, Board Member at Large (2021).

By using the SLAS Meeting Video website you agree to the following terms and conditions: Video website login username and password are provided for SLAS member use only. No one, other than the SLAS Board, shall distribute the login username and password. Videos are provided for streaming on the provided website only. The download and ubsequent saving in any way of SLAS videos is expressly prohibited. The SLAS Board reserves the right to change the login username and password or disable/remove the SLAS Meeting Video website at any time. Violations of these terms and conditions will result in discipline up to and including the revoking of SLAS membership and privileges. If you disagree with any of the above terms and conditions the SLAS Board requests you cease use of the SLAS Meeting Video website immediately.

6:38 PM
03/07/19
Accrual Basis

St. Louis Astronomical Society
Profit & Loss Budget vs. Actual
January through February 2019

	Jan - Feb 19	Budget	$ Over Budget
Ordinary Income/Expense			
Income			
Loaner Scope Sales	75.00	0.00	75.00
Magazine Subscription			
Astronomy Magazine Sales	143.75	59.90	83.85
Sky & Telescope Sales	194.75	98.85	95.90
Total Magazine Subscription	338.50	158.75	179.75
Membership Dues	680.00	1,035.00	(355.00)
Total Income	1,093.50	1,193.75	(100.25)
Cost of Goods Sold			
Magazine Subscriptions			
Astronomy Magazine Cost	143.45	59.90	83.55
Sky & Telescope Cost	194.75	98.85	95.90
Total Magazine Subscriptions	338.20	158.75	179.45
Merchandise		100.00	(100.00)
Total COGS	338.20	258.75	79.45
Gross Profit	755.30	935.00	(179.70)
Expense			
1-Programs & Events		580.67	(580.67)
2-Newsletter	93.62	85.00	8.62
3-Library expense	80.00	117.50	(37.50)
5-Loaner Scopes		17.00	(17.00)
6-Brochures		110.00	(110.00)
8-Website	179.40	285.00	(105.60)
9-Administrative Expenses	15.29	46.67	(31.38)
Total Expense	368.31	1,241.84	(873.53)
Net Ordinary Income	386.99	(306.84)	693.83
Other Income/Expense			
Other Income			
Donations			
SLAS Club Members	0.05	0.00	0.05
Total Donations	0.05	0.00	0.05
Interest Income	55.84	17.00	38.84
LTP Receipts*	1,475.00	0.00	1,475.00
YMCA Trout Lodge Scope Proceeds	250.00	0.00	250.00
Total Other Income	1,780.89	17.00	1,763.89
Other Expense			
LTP Escrow Funding**	500.00	500.00	
Total Other Expense	500.00	500.00	
Net Other Income	1,280.89	(483.00)	1,763.89
Net Income	1,667.88	(789.84)	2,457.72

* Includes donations and funding for winter 2019 Library Telescope build
** Reflects the $500 SLAS budgeted for the Library Telescope Escrow for 2019.

St. Louis Astronomical Society
Balance Sheet
As of February 28, 2019

	Dec 31, 18	Feb 28, 19
ASSETS		
Current Assets		
Checking/Savings		
Checking - First Bank	9,990.59	9,537.72
Deposit, Certificate of	20,239.11	20,276.20
Library Telescope Escrow	91.35	1,566.35
PayPal	0.00	444.91
Savings - First Bank	46,379.35	46,398.10
YMCA Trout Lodge Escrow	627.87	877.87
Total Checking/Savings	77,328.27	79,101.15
Other Current Assets		
Inventory Asset	821.53	821.53
Undeposited Funds	105.00	0.00
Total Other Current Assets	926.53	821.53
Total Current Assets	78,254.80	79,922.68
Total Fixed Assets	0.00	0.00
TOTAL ASSETS	78,254.80	79,922.68
LIABILITIES & EQUITY		
Equity		
Opening Bal Equity	8,497.66	8,497.66
Retained Earnings	65,418.58	69,757.14
Net Income	4,338.56	1,667.88
Total Equity	78,254.80	79,922.68
TOTAL LIABILITIES & EQUITY	78,254.80	79,922.68

(Continued from page 8) ***Board Meetiung Minutes***

4. Committee Reports: If needed
Library Telescope Program:
Membership: Attached is the January 2019 membership report. Membership is currently: 177. This is down 6 from last year on 1/31/2018 and down 2 from the end of 2018. We have seen a noticeable decline in "Family Memberships".
Merchandise: T-shirts for sale
Telescope Making: No report
Librarian: Bought 2 Great Courses DVDs.
Newsletter: Please forward articles to newsletter@slasonline.org
|**Website**: Current speaker listed on website, 2019 speakers updated.
Social Networking: Twitter – Jim did live streaming on Twitter at Feb first Friday at the SLSC
Night Sky Network: No report
SLASdialogs: 120+ members now
Dark Site: Spring events listed on calendar
Publicity: The February press release is out to all media sources normally given notice.
Observing Programs: No report
Star Parties: Great Rivers Greenway Festival at Creve Coeur Park. This event at Creve Coeur Park will draw several thousand visitors from the regional area. Event hours are typically 10 am – 4 pm. We have supported this event since its inception in 2017. Participation by vendors and the public continues to grow and our display has been very popular. Typically, I handle this event but I have a conflict this year. At the request of Angela Speck, I will be attending an AAS event held that same weekend. I will be joining other speakers to talk about the 2017 eclipse with my talk focusing our St. Louis Task Force. An email that St. Louis County Park was sent to request registration. If we participate, we will need a certificate on insurance.
5. Old Business: None 6. New Business: None
7. Closing Activities: Motion to adjourn at 9:05 pm by Bradley R Waller and seconded by Tom. Motion carried.

Upcoming Star Parties and Other Events

For details on these and other upcoming events, check out the Night Sky Network Calendar linked on the Home Page for SLAS at http://www.slasonline.org

SLAS Executive Board Meetings *Location will be at Nicoletti's Restaurant in Valley Park* All meetings are on First Thursdays unless noted.
Apr 4, May 2, Jun 6, Jul 11 (4th is 1st Thursday), Aug 1, Sep 5, Oct 3, Nov 7, Dec 5

Dark Sky Observing Dates

4/6

Francis Park Events: These events are on Wednesdays of the week nearest the first quarter Moon
4/10, 5/8, 6/5, 7/10, 8/7, 9/4, 10/2, 10/30

Sky Orienteering Events For members who want to gather and do some relaxed observing at Babler State Park
orienteering. Please RSVP if you plan to come!

SLSC Public Telescope Viewing Events: These events are held the first Friday of the month Planetarium shows start at 7pm
Apr 5, May 3, Jun 7, Jul 5, Aug 2, Sep 6, Oct 4, Nov 1, Dec 6

Pattonville Observatory Public Viewing Dates
3-22, 4-12, 4-26, 5-10, 5-24

Broemmelsiek Astronomy Park Public Viewing

Every Friday night with ASEM members

UMSL Observatory
For directions and map
http://www.umsl.edu/~physics/About%20the%20Department/astro.html

All sessions include viewing of 1st quarter Moon with additional objects

Skywatch Hotline: 314-516-5706

Saturdays:

LET US KNOW YOU ARE COMING!

To RSVP for any of these events log in to the Night Sky Network and submit your RSVP. If the event is canceled, you will be notified immediately according to the preferences you have selected.

SLAS EVENTS

March

15 Fri	SLAS Regular Meeting
18 Mon	St. Louis County HQ Library
19 Tue	Samuel C. Sachs Library
20 Wed	Cliff Cave Library
20 Wed	St. Louis Public Library
24 Sun	SLAS Sky Orienteering
25 Mon	Wren Hollow Elementary
28 Thur	Wild Horse Elementary
28 Thur	Armstrong Elementary
30 Sat	Library Telescope Maintenance

April

4 Thur	SLAS Board Meeting
5 Fri	SLSC Public Telescope Viewing
6 Sat	SLAS Dark Sky Observing
10 Wed	Francis Park Stargazing
10 Wed	Florissant Valley Library
11 Thur	Thornhill Library
11 Thur	Incarnate Word
16 Tue	Natural Bridge Library
17 Wed	Indian Trails Library
18 Thur	Daniel Boone Library
19 Fri	SLAS Regular Meeting
20 Sat	Sidewalk Solar Observing
26 Fri	Hillsboro Elementary STEM Night
27 Sat	Camp Fiddlecreek
28 Sun	SLAS Sky Orienteering

May

2 Thur	SLAS Board Meeting
3 Fri	SLSC Public Telescope Viewing
4 Sat	SLAS Dark Sky Viewing
7 Tue	Prairie Commons Library
8 Wed	Francis Park Stargazing
9 Thur	Scott AFB Library
11 Sat	Astronomy Day SLSC
11 Sat	Crestwood Park
13 Mon	Oak Bend Library
15 Wed	Weber Road Library
16 Thur	Manchester Park
17 Fri	SLAS Regular Meeting

SLAS Merchandise Available

SLAS merchandise is now set up for embroidery at
Headz n Threadz at https://hnt.threadthis.com/

There are two locations:
Galleria: 2495 St. Louis Galleria, St. Louis, MO 63117 Telephone: 314.862.2695
galleria@headznthreadz.com

Simply take the garment, hat, etc you wish to have embroidered and they will take care of it. They have the SLAS logo on file. You may make modifications to the colors if you wish.

SLAS MEMBERSHIP APPLICATION

Name: Last _____

First, Middle Initial _____

Address _____

City, State, Zip Code _____

email address _____

Please send completed form with check (no cash please) made payable to

St Louis Astronomical Society

Don Ficken, Membership
13024 Barrett Crossing CT
St. Louis, MO 63122

Youth @ $10.00 / 1 year (18 yrs or younger) $_____

Individual @ $25.00 / 1 year $_____

Family @ $40.00/1 year $_____

Publications with discount available with your SLAS membership:

Sky and Telescope @ $32.95 / 1 year $_____

(S&T may also be renewed at their website: http://www.skyandtelescope.com)

Astronomy @ $34.00 / 1 year $_____

TOTAL ENCLOSED **$**_____

Check all that apply:
___ Renewal
___ Address Change Only
___ Please send my newsletter by regular mail
___ ***New Member!***

SLAS OFFICERS

President ***Jim Small*** 314-307-0692
president at slasonline.org

Vice President ***Bradley R Waller*** 314-481-7250
vicepresident at slasonline.org

Secretary ***Mark Jones*** 636-394-2342
secretary at slasonline.org

Treasurer ***Bill Winningham, (Don Ficken - membership)***
treasurer at slasonline.org 636-357-2763

Hospitality ***Larry Campbell*** 636-244-2867
hospitality at slasonline.org

Board Members at Large:

Rich Heuermann 314-962-9231
board19 at slasonline.org

Tom Nickelson 314-346-9565
board20 at slasonline.org

Brent Buch 314-239-0329
board21 at slasonline.org

ALCOR ***Bill Winningham*** 636-357-2763
(Astronomical League Correspondent)
treasurer at slasonline.org

MSRAL Rep. ***Jim Small*** 314-909-7211
msral_rep at astroleague.org

COMMITTEE CHAIRS

Dark Site Coordinator ***Mark Jones*** 636-394-2342
darksite at slasonline.org

Librarian ***Jim Small*** 314-909-7211
librarian at slasonline.org

Library Telescope Program ***Don Ficken*** 636-851-9630
librarytelescope at slasonline.org

Loaner Equipment ***Greg Gaines*** 314-277-3082
loaner at slasonine.org

Merchandise ***Vacant***
merchandise at slasonline.org

Membership ***Don Ficken*** 636-225-0269
membership at slasonline.org

Newsletter Editor ***Jim Small*** 314-909-7211
newsletter at slasonline.org

Observing Programs ***Mark Jones*** 636-394-2342
observing at slasonline.org

Publicity ***Rich Heuermann*** 314-962-9231
publicity at slasonline.org

Recognition ***Larry Campbell*** 636-244-2867
recognition at slasonline.org

Social Media *Vacant*

'SLASdialogs' Moderator ***Mark Jones, Rhonda Whelan***
dialogsmoderator at yahoo.com

Star Party Coordinator ***Bill Breeden*** 314-276-3613
starparty at slasonline.org

Telescope Making ***Bill Davis, Jim Melka*** 314-469-3061
telescope at slasonline.org

Webmaster ***Jim Small*** 314-909-7211

Devoted to the Interest and Advancement of the Science of Astronomy

ST. LOUIS ASTRONOMICAL SOCIETY

We're on the Web!
http://www.slasonline.org

Follow us on
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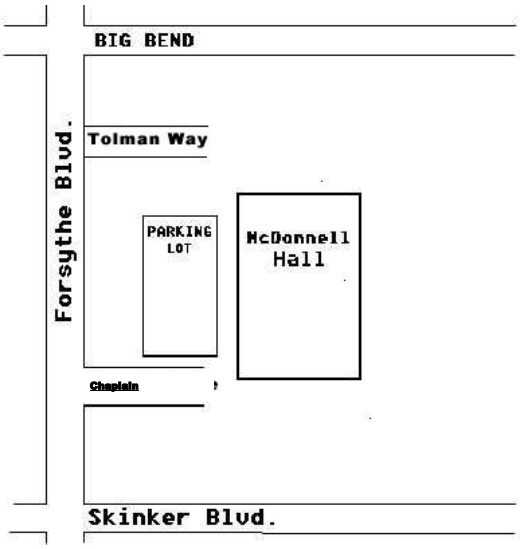
Facebook: @stlastro

Who We Are and What We Do

St. Louis Astronomical Society is a not-for-profit organization established in 1936. SLAS is devoted to the interest and advancement of the science of astronomy. Our mission is to promote an understanding of the science of astronomy to our members and to the public. Membership is open to any-one with an interest in astronomy.

For more information contact any SLAS officer or visit our website listed above. SLAS is affiliated with the Astronomical League, Night Sky Network and the Mid-States Region of the Astronomical League.

Meetings are held the 3rd Friday of each month at McDonnell Hall at Washington University. See the map to the right for directions.



St. Louis Astronomical Society

Jim Small
13128 Cozyhill Drive
St. Louis, MO 63122