THE EVENT HORIZON

ST. LOUIS ASTRONOMICAL SOCIETY

Devoted to the Interest and Advancement of the Science of Astronomy

VOLUME 29, Issue 4
April, 2019

A Space Cornucopia: From Quasars to the Green Flash

by

Bob King
"Astro Bob"

Bob King will be featured at the April meeting of the Saint Louis Astronomical Society. The meeting will begin at 7:30 PM Friday, April 19 in Wilson Hall, Room 214, on the Washington University campus, Saint Louis, MO 63105. Wilson Hall is accessible from Forsyth Boulevard via Tolman Way. Free yellow zone and garage parking spaces are available.

The "Space Cornucopia" will be a tour of the night sky's interesting objects. As Mr. King describes it, "Get the coffee ready. We'll stay up the entire night from dusk till sunrise starting with the zodiacal light before moving on to survey the heart of the Virgo Cluster of galaxies. From there we dive deep to hunt quasars and supernovae, check out the pre-dawn planets and wrap up with a green flash sunrise."

Bob King has been an amateur astronomer since he was 10 years old. In 1979, he moved to Duluth, Minnesota, and worked as a photographer and photo editor for the Duluth News Tribune until retiring in 2018. He teaches community education astronomy classes, lectures widely and writes the Astro Bob blog (astrobob.areavoices.com) about what's up in the night sky. He is author of Night Sky with the Naked Eye and Wonders of the Night Sky You Must See Before You Die. His third book, Urban Legends from Space, will publish this fall.

Presentations for 2019

May Andres Plazas, PhD The Large Synoptic Survey Telescope Princeton University
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

ROOM CHANGE FOR THIS MONTH ONLY PARKING UPDATE

For the April meeting only, the room has been changed to Wilson Hall, room 214. Wilson Hall is up the hill past McDonnell Hall and to the left. Signs will be posted. For an online map, click here. A printable map will be on page 3.

Parking is limited to yellow zones and garage parking. Refrain from parking in red zones to avoid a ticket

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Presidents Corner *by* Jim Small

The meeting for April has been moved to Wilson Hall room 214. See the map on page 3!

Parking at Wash U has changed again, at least for now. Avoid red spaces. See the map on page 3 for parking areas.

I can't wait for Bob King's (Astro Bob) talk at the meeting this month! It will be his first virtual meeting!

NCRAL is coming up the weekend of May 3-5 in Moline, IL! They have a terrific convention lined up. See www.ncral2019.org for details!

MSRAL is coming up June 14-16 in Kansas City. Registration is open and you can find current information at www.msral.org

The AAS national meeting will be held in St. Louis at Union Station from Sunday June 9-Thursday, June 13. How convenient that it ends the day before MSRAL starts! Tons of professional astronomers will be in attendance. YOU can volunteer to help out for 10 hours during the conference and possibly attend for FREE! (the astronomers favorite word!) For information on the conference and possibly volunteering to help out, visit their website and see if you are interested!

Meeting website: https://aas.org/meetings/aas234

Volunteer information: https://www.cognitoforms.com/AAS5/_234thAnnualMeetingVolunteerInterestForm

ALCON 2019 is coming up in July, but if you want to go, you need to sign up by the end of April. https://alcon2019.astroleague.org/

Get Involved!

Nominations are Open and Volunteers are Needed!

This message goes out to all SLAS members, but particularly to those who have been members less than 10 years. If you fall into this group, you are part of the growing majority in SLAS.

Did you know the based on our April 2019 membership roster, SLAS has more than 120 members with 10 or less years membership, and 91 of those have less than 5 years! This is a great opportunity for newer members to make a impact on the future of SLAS.

SLAS is structured to run like many non-profits. No "astronomy" expertise is required to be a leader in our club. If you have or want, leadership experience, please don't hesitate to step up. You can make your voice be heard and you can lead SLAS in the right direction.

SLAS will benefit from the perspectives that new members bring. Member questionnaires indicate that the majority of newer members are on a similar journey. They lack telescopes and deep astronomy knowledge, but come with a desire to learn more about astronomy, what equipment to buy, how to navigate the sky or just find their place in this universe. You are not alone.

The current leadership is excited by the shift toward new members. SLAS has a stable membership, excellent cash flow and has established deep connections with local institutions like Washington University, St Louis Science Center, and St Louis City and County Public Libraries. Also, we have strengthened our communication with other astronomy clubs in our region. We work together in a proven partnership and we plan to maintain these partnerships for years to come.\

The SLAS Executive Board has made it a prioirty to empower committees and leaders to create new partnerships. Our 2017 Eclipse Committee was such a partnership, as SLAS provided seed money to get the Eclipse Committee started. As we get closer to the 2024 eclipse, we will once again pull our regional partners together with a similar commitment. Our Library Telescope Program partnership began in 2014 with similar seed funding, and has grown to over 150 regional telescopes, with a LTP website is aimed at providing a national resource center to assist other clubs in starting their own programs.

This year we will begin our observatory partnership with Jefferson College in Hillsboro, MO. So far, we have helped Jefferson College secure $38,000 in funding for phase 1 construction of a campus observatory. SLAS will continue to support the observatory committee in the planning and operation of this new observatory.

Annual election for Executive Board members will take place at the May 2019 SLAS meeting. Nominations for SLAS offices will begin at the April meeting. If you would like to run for one of the elected positions or volunteer for a committee leadership role, please contact us at board@slasonline.org or volunteer@slasonline.org

The following elected positions are open for nomination this month

President - 1 year term

Vice-Presisdent - 1 year term

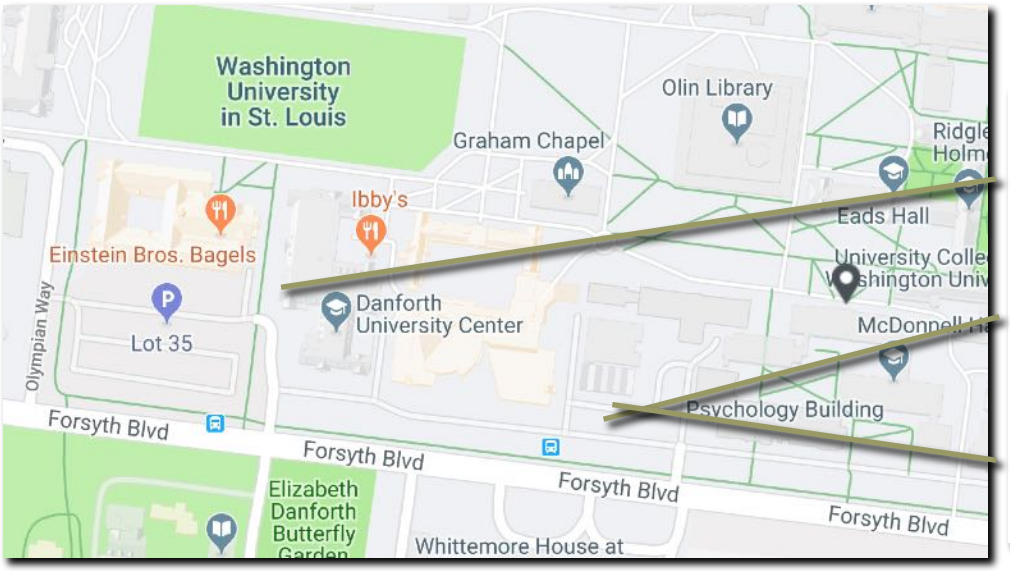
Treasurer - 1 year term

Recording Secretary - 1 year term

Membership and Hospitality - 1 year term

Board member at larger - 3 year term

(Continued on page 4)

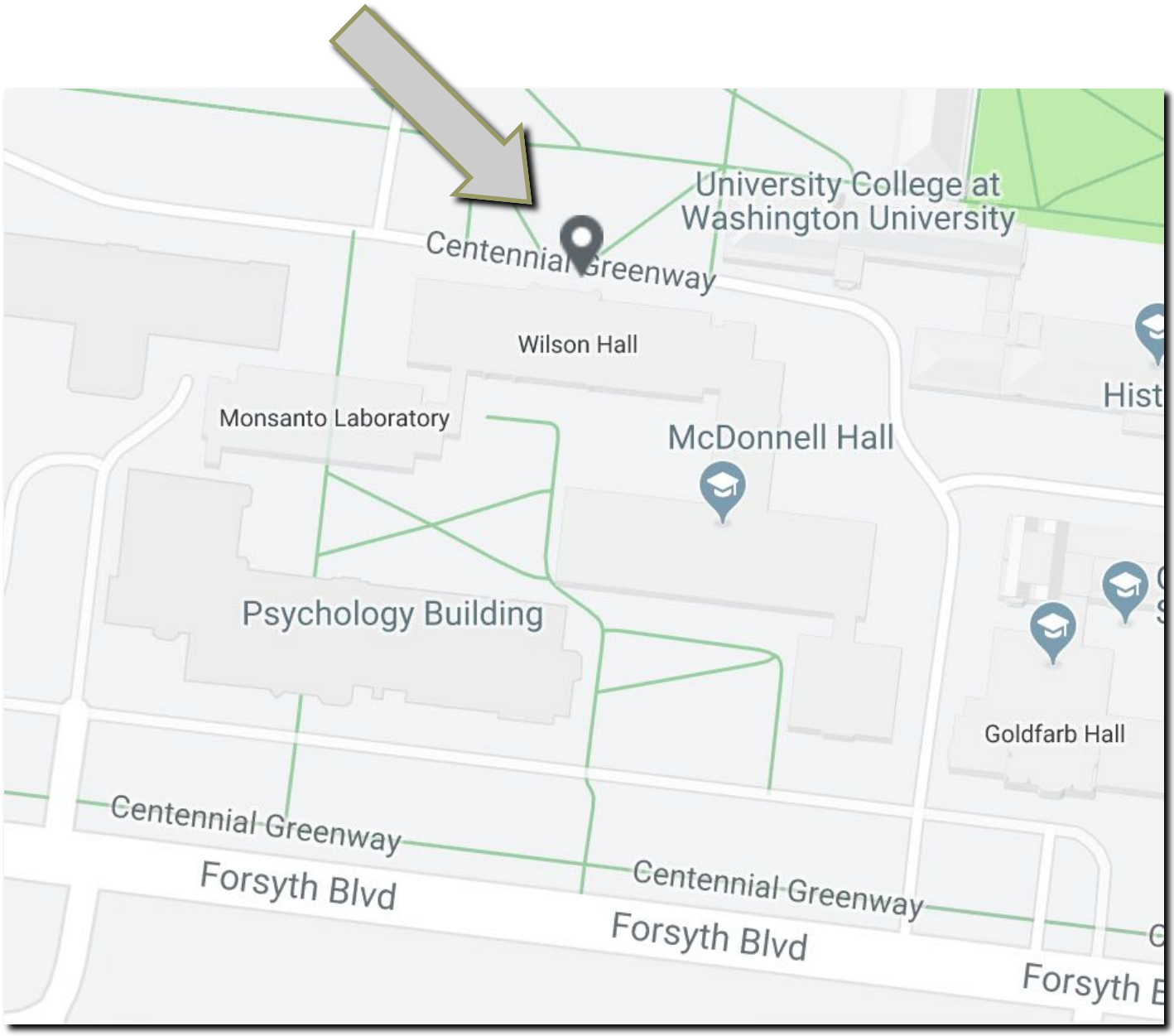


Parking locations for garage parking

yellow zone

multi passenger and

Main Entrance for Wilson Hall



(Continued from page 2)

Here are the descriptions from the SLAS constitution and by-laws for each position

ARTICLE VII – THE ELECTIVE OFFICERS AND THEIR RESPECTIVE DUTIES

SHALL BE: (Amendment XXII - Adopted 11-16-2007)

The elective officers of the Society shall be the President, Vice-President, Secretary, Treasurer, Membership and Hospitality, and three Board Members at Large. All officers must be at least 21 years of age. No member shall hold more than one elective office at a time. Any officer may be removed from office only by vote of a two-thirds (2/3) majority of all members present at the monthly meeting. Such proceedings can only be initiated by a two-thirds (2/3) vote of the remaining Elective Officers.

Section 1. PRESIDENT

The president shall be the executive officer of the society, shall preside over all meetings of the society and the executive council, and shall be ex-officio member of all standing committees.

Section 2. VICE-PRESIDENT

The Vice-President shall, in the absence of the President, preside over all meetings of the society and of the executive council. He shall perform such duties as usually pertain to that, or which may be assigned to him by the President or the executive council.

Section 3. TREASURER (Amendment IX - Adopted 5-16-1975)

The Treasurer shall receive all funds paid to the society and shall deposit same in an official depository as approved by the executive council and shall disburse same on the approval of the President or the executive council. He shall sign all checks. He shall keep the society's financial records and his books shall be open to inspection by the executive council at all times. He shall make a report at the annual election meeting of the society and at such other times as the executive council may require.

Section 4. RECORDING SECRETARY (Amendment III - Adopted 1-18-1957) (Amendment VII - Adopted 1-18-1968) (Amendment X - Adopted 5-16-1975)

The Recording Secretary shall keep minutes of business portions of any regular monthly meetings and minutes of all executive council meetings.

Section 5. MEMBERSHIP AND HOSPITALITY (Amendment VIII - Adopted 10-18-1968) (Amendment XI - 5-16-1975) (Amendment XXIII - Adopted 11-16-2007)

The Membership and Hospitality officer shall maintain a program of securing new members for the society and retaining current members. The Membership and Hospitality officer shall plan and coordinate social activities of the society as requested by the executive council or the membership.

Section 6. BOARD MEMBER AT LARGE (Amendment XII - Adopted 5-16-1975)

Three Board Member at Large shall be elected at the time of the annual election of officers. At the first election of the Board Members at Large in September, 1975, one shall be elected to a one-year term, one to a two-year term, and one to a three-year term. In succeeding years the vacant position created by the retiring Board Member at Large will be filled by a member being elected for a three-year term.

Educational Opportunity

SLAS members are welcome to sit in on a class I'm giving in Bruce Fegley Jr.'s Planetary Geology course on Friday, April 26, 1:00-2:00 pm at Washington U. in Room 333, Rudolph Hall (the E&PS building just northeast of Brookings Hall). I'll provide the latest scientific results from the Rosetta mission to comet 67P (Churyumov-Gerasimenko) and compare and contrast them with what we've seen so far from the New Horizons flyby of the Kuiper belt object Ultima Thule. For visitor parking see https://parking.wustl.edu/visitors/. Contact Joe if you have questions.

Best,

Joseph N. Marcus, M.D.

314.993.5340 residence
314.565.7178 cell
josephnmarcus@gmail.com

FOR SALE!

Celestron Nexstar SE 6 inch GOTO Telescope and tripod

Hard shell carrying case

25mm Plossl eyepiece

1.25 Star Diagonal

6 inch Bahtinov mask

Bought new June 2016

Excellent condition - limited use

Price $600

Skywatcher 12 inch f/4.9

Collapsible GOTO telescope

Fitted with laser pointer

Nylon cover

Bought new October 2017

Excellent condition - limited use

Price $1,300

Jim Morrison 401-486-9728

We could use articles for the newsletter. The following topics are fine for submission.

1. Star party reports. Let us know how a star party you attended went! Photos would be most welcome in addition to the article.

2. Observing reports. Actually made it out observing? Let us know how it went. Taken some astro photos? Please submit!

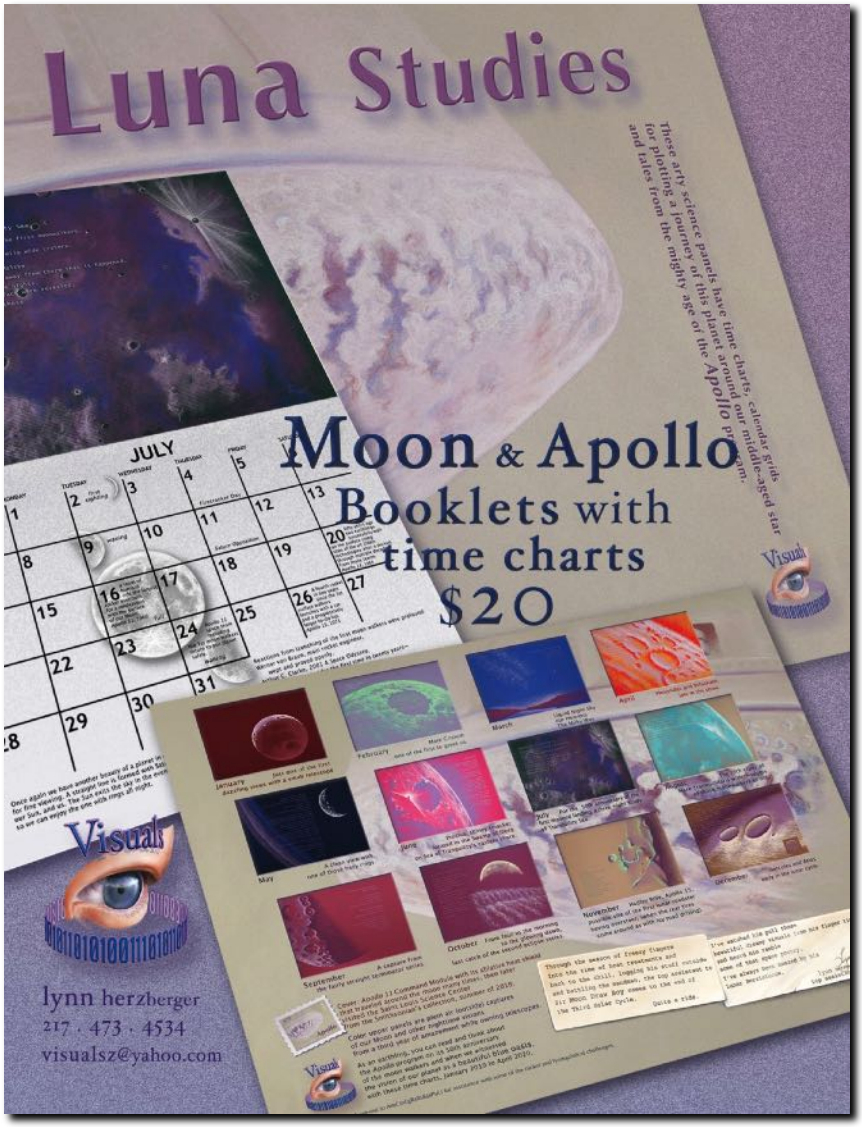
3. Bought something or built something? How about a review or an article!

Send to newsletter@slasonline.org

SLAS table at the St. Louis Science Center, First Friday, April 5, 2019.

L-R: Cook & Carol Feldman, Rita Breeden, Rich Jennings.

Photo by Bill Breeden.



From Lynn Herzberger:

This is a a promo panel I've put together for a booklet of the Moon and the Apollo missions.

The uppers are illustrations and little tales from the third year of excitement with telescopes.

Maybe the first one hundred times I looked at our moon and other heavenly starter objects.

I thought it would be a fairly easy task to reissue this collection with time charts, calendar grids attached.

I was planning on including items I had used on a calendar before as in Apollo 8 and 11 for this 50th anniversary. But with some input from some astronomers, I have included every manned Apollo missions and more.

Lynn Herzberger, Moon Illustrator

I'll go charge up my surface rover and see you all soon.

217 . 473 . 4534
visualsz@yahoo.com

Sum of Member's Volunteer Hours

Member Name	Service Date	Total	# Events
Cook Feldman			
	2018-01-05	4.00	
	2018-02-02	4.00	
	2018-03-02	5.00	
	2018-04-06	5.00	
	2018-05-04	5.00	
	2018-05-19	4.00	
	2018-06-01	5.00	
	2018-06-16	5.00	
	2018-07-06	4.00	
	2018-07-21	9.00	
	2018-08-03	4.00	
	2018-09-15	4.00	
	2018-10-05	4.00	
	2018-10-20	6.00	
	2018-11-02	3.00	
	2018-12-07	3.00	
Cook Feldman Total		74.00	16
Bradley Waller			
	2018-01-05	3.00	
	2018-02-02	3.00	
	2018-03-02	3.00	
	2018-04-06	2.00	
	2018-05-04	4.00	
	2018-05-19	3.00	
	2018-06-01	3.50	
	2018-06-16	5.00	
	2018-07-06	3.00	
	2018-08-03	4.00	
	2018-09-15	4.00	
	2018-10-05	3.00	
	2018-11-02	3.00	
	2018-12-07	3.00	
Bradley Waller Total		46.50	14
Richard Jennings			
	2018-02-02	2.00	
	2018-03-02	2.00	
	2018-06-01	2.50	
	2018-07-06	3.00	
	2018-07-21	6.00	
	2018-08-03	2.50	
	2018-10-05	3.00	
	2018-11-02	3.00	
Richard Jennings Total		24.00	8
Bill Breeden			
	2018-03-02	3.00	
	2018-05-04	3.50	
	2018-06-01	3.00	
	2018-07-06	4.00	
	2018-08-03	4.00	
	2018-10-05	3.00	
	2018-12-07	3.00	
Bill Breeden Total		23.50	7
Rita Breeden			
	2018-03-02	3.00	
	2018-05-04	3.50	
	2018-06-01	3.00	
	2018-07-06	4.00	
	2018-08-03	4.00	
	2018-12-07	3.00	
Rita Breeden Total		20.50	6
John Beaury			
	2018-02-02	1.00	
	2018-03-02	4.00	
	2018-05-04	3.50	
	2018-06-01	3.00	
	2018-07-06	3.50	
	2018-12-07	3.00	
John Beaury Total		18.00	6
Rick Menendez			
	2018-05-04	3.00	
	2018-06-01	3.00	
	2018-07-06	3.00	
	2018-07-21	2.00	
	2018-08-03	3.00	
	2018-10-05	3.00	
Rick Menendez Total		17.00	6
Donald Ficken			
	2018-05-04	3.00	
	2018-05-19	3.00	
	2018-07-06	4.00	
	2018-07-21	4.00	
Donald Ficken Total		14.00	4
Larry Campbell			
	2018-01-05	3.00	
	2018-02-02	3.00	
	2018-12-07	3.00	
Larry Campbell Total		9.00	3
Mark Jones	2		
	018-07-06	2.00	
	2018-07-21	6.00	
Mark Jones Total		8.00	
Shanna Ramirez			
	2018-07-06	1.00	
	2018-07-21	7.00	
Shanna Ramirez Total		8.00	
Frank Mack			
	2018-07-21	6.50	
Frank Mack Total		6.50	
Sharon Bertram			
	2018-08-03	3.00	
	2018-10-05	2.00	
Sharon Bertram Total		5.00	
Rich Heuermann			
	2018-08-03	3.00	
Rich Heuermann Total		3.00	
James Small			
	2018-08-03	3.00	
James Small Total		3.00	
William Winningham			
	2018-08-03	1.50	
William Winningham Total			1.50
Benjamin Winningham			
	2018-08-03	1.50	
Benjamin Winningham Total			1.50
Grand Total	283.00		

St. Louis Astronomical Society Executive Board Meeting Minutes

March 7, 2019

1. Opening Activities: Attending: Jim Small, Larry Campbell, Bradley Waller, Brent Buch, Rich Heuermann, Mark Jones, Tom Nickelson, Bill Winningham Meeting called to order 700pm

February meeting minutes distributed before the meeting. Motion to approve the minutes made by Jim second by Rich. Minutes were approved by Board.

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. Replacement needed beginning this month. Cook will assist in transition. Motion to have Brad Waller as the new SLAS liaison to the SLSC. Motion by Mark second by Tom motion passed.

Next board meeting: Meetings posted on NSN Board meetings will be held at Nicoletti's Restaurant in Valley Park until further notice. Dates remaining for 2019: Apr 4, May 2, Jun 6, Jul 11 (4th is 1st Thursday), Aug 1, Sep 5, Oct 3, Nov 7, Dec 5

3. Director Reports:
President: Jim Small: Homemade Fest was good about 25 people. Need to establish better presenter schedule to avoid issues with people not being able to stay entire evening. NSN pins will be given to Mark and Brad will print the NSN certificates.\

Vice President: Bradley R Waller Brad brought samples of new SLAS Quarter cards, Horsehead, Pleiades, M31, Orion Neb, M78, Rosette, Cone Nebula, Moon, and Saturn

SLAS Monthly Meetings **2019 Presentations**

Month	Name	Topic	Sponsor
15-Mar-2019	Bruce Stinchcomb, PhD	Meteorites	Flo-Valley
19-Apr-2019	Bob "Astro Bob" King	A Space Cornucopia: From the Quasars to the Green Flash	AAS
17-May-2019	Open		
21-Jun-2019	Josiah Lewis, PhD	Presolar Grains: Solids from Other Stars Studied in the Lab	Wash U
19-Jul-2019	Open		
16-Aug-2019	Angela Speck, PhD	2019 Solar Eclipse Results	Mizzou
20-Sep-2019	Don Hampton,PhD	Aurora Borealis & Steve	UAF (SE)
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 (SE)
20-Dec-2019	Duncan Lorimer, PhD	Fast Radio Bursts: "Lorimer Bursts"	UWVA (SE)

Skype Event (SE) NRAO: National Radio Astronomy Observatory
UAF: University of Alaska: Fairbanks AAS: Arrowhead Astronomical Society
UWVA: University of West Virginia

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

Secretary: Mark Jones: Jefferson College Observatory update.

Treasurer/ALCor: Bill Winningham Financials**,** First Bank has been charging fees in error. We have requested that the errors be reversed. Might need to consider changing banks. Commerce and US Bank are two options. $45K sitting in a money market account not earning much interest. First Bank promotional rates for an 11-month CD at 2.3% Bill made motion to invest $10k from saving account into 11-month CD. SLAS received bank fee for bounced check. Astronomy magazine subscription will be set at $34/year

Hospitality: Larry Campbell No report

Board member at large reports

Rich Heuermann (2019): Trout Lodge escrow getting resolved. Escrow will be used to buy LTP for Trout Lodge Summer Reading Program – many events. Two standard presentations plus Rich has two other programs. Press release for March speaker has been sent to media outlets

Tom Nickelson (2020): no report

Brent Buch (2021): All videos from 2018 SLAS meetings are now uploaded to SLAS website. Jan & Feb 2019 also uploaded. Brent will post rules for video usage on website. Rules for use were approved by Board last month.

4. Committee Reports:

Membership: Separate report which shows membership at 169 members. Expirations appear to be an issue.|

Newsletter: Please forward articles to newsletter@slasonline.org Editor? New newsletter logo?

Website: Current speaker listed on website, 2019 speakers updated.

Dark Site: Spring events listed on calendar

5. Old Business: None

6. New Business: None

7. Closing Activities: Motion to adjourn the meeting by Mark second by Larry. Meeting adjourned at 8:50pm

8:23 AM
04/17/19
Accrual Basis

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

	Jan - Mar 19	Budget	$ Over Budget
Ordinary Income/Expense			
Income			
Loaner Scope Sales	75.00	0.00	75.00
Magazine Subscription			
Astronomy Magazine Sales*	173.70	179.70	(6.00)
Sky & Telescope Sales	326.55	131.80	194.75
Total Magazine Subscription	500.25	311.50	188.75
Membership Dues	1,165.00	1,445.00	(280.00)
Total Income	1,740.25	1,756.50	(16.25)
Cost of Goods Sold			
Magazine Subscriptions			
Astronomy Magazine Cost*	177.45	179.70	(2.25)
Sky & Telescope Cost	326.55	131.80	194.75
Total Magazine Subscriptions	504.00	311.50	192.50
Merchandise		100.00	(100.00)
Total COGS	504.00	411.50	92.50
Gross Profit	1,236.25	1,345.00	(108.75)
Expense			
1-Programs & Events	53.61	708.00	(654.39)
2-Newsletter	93.62	127.00	(33.38)
3-Library expense	80.00	117.50	(37.50)
5-Loaner Scopes		25.00	(25.00)
6-Brochures		160.00	(160.00)
8-Website	179.40	285.00	(105.60)
9-Administrative Expenses	45.38	57.50	(12.12)
Total Expense	452.01	1,480.00	(1,027.99)
Net Ordinary Income	784.24	(135.00)	919.24
Other Income/Expense			
Other Income			
Total Donations	100.05	0.00	100.05
Interest Income	83.03	25.00	58.03
LTP Receipts	3,254.38	0.00	3,254.38
YMCA Trout Lodge Scope Proceeds	360.00	0.00	360.00
Total Other Income	3,797.46	25.00	3,772.46
Other Expense			
LTP Disbursements	2,937.22	0.00	2,937.22
LTP Escrow Funding	500.00	500.00	0.00
YMCA Trout Lodge ESCROW Expense	838.50	0.00	838.50
Total Other Expense	4,275.72	500.00	3,775.72
Net Other Income	(478.26)	(475.00)	(3.26)
Net Income	305.98	(610.00)	915.98

* Astronomy Magazine cost of goods vs revenue received difference due to inconsistent pricing of the publisher

St. Louis Astronomical Society
Balance Sheet
As of March 31, 2019

	Dec 31, 18	Mar 31, 19
ASSETS		
Current Assets		
Checking/Savings		
Checking - First Bank	9,990.59	9,629.16
Deposit, Certificate of	20,239.11	20,293.54
Library Telescope Escrow	91.35	408.51
PayPal	0.00	700.72
Savings - First Bank	46,379.35	46,407.95
YMCA Trout Lodge Escrow	627.87	149.37
Total Checking/Savings	77,328.27	77,589.25
Other Current Assets		
Inventory Asset	821.53	821.53
Undeposited Funds	105.00	150.00
Total Other Current Assets	926.53	971.53
Total Current Assets	78,254.80	78,560.78
Total Fixed Assets	0.00	0.00
TOTAL ASSETS	78,254.80	78,560.78
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	305.98
Total Equity	78,254.80	78,560.78
TOTAL LIABILITIES & EQUITY	78,254.80	78,560.78

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 on-shore 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.

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.
May 2, Jun 6, Jul 11 (4th is 1st Thursday), Aug 1, Sep 5, Oct 3, Nov 7, Dec 5

Dark Sky Observing Dates

Francis Park Events: These events are on Wednesdays of the week nearest the first quarter Moon
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
May 3, Jun 7, Jul 5, Aug 2, Sep 6, Oct 4, Nov 1, Dec 6

Pattonville Observatory Public Viewing Dates
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

April

19 Fri	SLAS Regular Meeting
20 Sat	Sidewalk Solar Observing
26 Fri	Hillsboro Elementary STEM Night
26 Fri	Snores and Smores
27 Sat	Camp Fiddlecreek
28 Sun	SLAS Sky Orienteering

May

2 Thur	SLAS Board Meeting
3-5	NCRAL
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
18 Sat	Stargazing at the Arch
25 Sat	Moon and Stars From You
25 Sat	Hawn State Park
26 Sun	SLAS Sky Orienteering
29 Wed	A Tourist Guide to Mars
30 Thur	A Warp 10 Tour of the Universe
30 Thur	A Tourist Guide to Mars

June

1 Sat	SLAS Dark Sky Observing
1 Sat	Backyard Campout
4 Tue	Ferguson Public Library
5 Wed	Francis Park
6 Thur	SLAS Board Meeting
7 Fri	SLSC Public Telescope Viewing
8 Sat	Great Rivers Greenway Festival
11 Tue	Flag on the Moon
13 Thur	U-City Public Library
14-16	MSRAL

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

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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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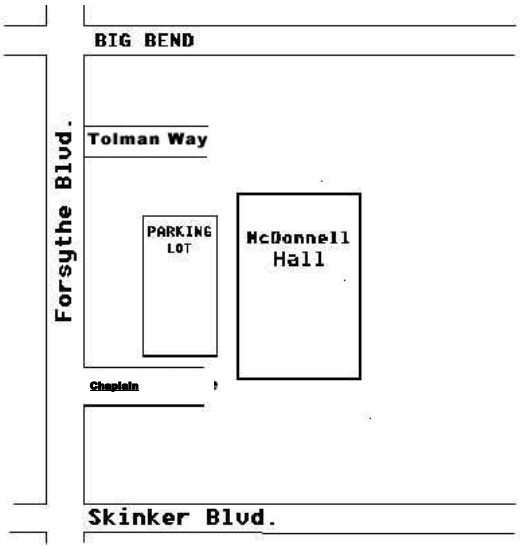
Facebook: @stlastro

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

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