

THE EVENT HORIZON



ST. LOUIS ASTRONOMICAL SOCIETY

Devoted to the Interest and Advancement of the Science of Astronomy

VOLUME 26, Issue 7
July, 2016

Sketching the Night Sky: The Art Of Astronomy *by* **Jane Rix**

Jane Rix will be featured at the July meeting of the St. Louis Astronomical Society. The meeting will begin at 7:30 PM Friday, July 15, in McDonnell Hall, Room 162, on the Washington University campus, Saint Louis, MO 63130. McDonnell Hall is accessible from Forsyth Boulevard via Tolman Way.

Sketches of the sky have been made since humans could first draw. As time has progressed, many amateur astronomers have moved on to digital photography to record the view through a telescope. However, drawing the sky can create a greater bond and understanding of the objects being viewed. Jane

Rix is a self-taught artist whose main body of work includes realistic portrait pencil sketches. Learning to draw well is about learning how to "see" things and the relationship the item has with other objects. This program will be a hands-on exercise that demonstrates how to "see" and how to work through the issues that develop during drawing. This presentation is for the beginner as well as for more advanced artists.

Upcoming Meetings:

August 20, 2016: 2017 Eclipse - One Year Out - John Wharton, SLSC
September: Gary Gackstatter – Archeoastronomy
October: Dr. Katermerch, Washington U. – LIGO,
November: Dr. Bill McKinnon TBA
April 2017: Kevin Evans – Weaubleau Impact Structure

14th Annual SLAS Star-B-Q

**Saturday, August 20, 2016 3pm-?
Walnut Grove Picnic area**

Come join fellow members of the SLAS at **Babler State Park** for a day of food, softball, games, and observing. SLAS will once again provide the Bar-B-Q. We ask is for you to bring your favorite drinks and side dish or dessert. ***This area has a large shelter, restrooms, and baseball fields. There is also plenty of room to set up volleyball or horseshoes if you wish to bring them. We will observe from the ball fields.***

Don't have a telescope? Don't worry this is a great chance to see other member's telescopes.

See page 2 for more information!

See the ad on page 3 for full details!

Mid States Region



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SLAS Library Telescope Build Saturday, August 6th, 2016

We have had some last minute adjustments making this a big deployment. We will building 46 telescopes (not a typo) on Saturday, August 6th at the Grants View Branch of St. Louis County Library. This will raise our count of St. Louis area telescopes to 131 in public libraries – 10 more than New Hampshire that started the program.

Here is the breakout by library:

Missouri (39 telescopes)
Scenic Regional Library – 10 telescopes (new)
Riverside Regional Library – 8 telescopes (new)
St. Louis County Library - 7 telescopes

Presidents Corner—Jim Small

We have had some excellent outreach events for SLAS so far this year and have reached many people for some of our events. The Arch event a couple of weeks ago instantly had lines of 20 people at each scope as soon as they set up and they estimated there were 500 people in attendance. Other events have been equally successful, drawing large crowds and interest among the visitors. The next First Friday event will feature a thin crescent Moon and 3 planets in the west just after Sunset. Whether or not it will be visible from the Archery Field is another question. Keep an eye on the calendar and make sure you sign up for events where possible. If you can't make it personally, try to help Bill Breeden, our star party coordinator, keep events filled with adequate numbers of volunteers. Some events are hard to fill, so be aware of your strengths and sign up for events of the type you like to work! We are getting more and more static display events and we are well equipped to support those events with our new banners, easel's and signs, and table covers.

The board just voted at the last meeting to make

Meteorologist Mike Roberts an official weatherman for SLAS! Welcome to Mike!



To our new members:

1. If you have any questions, don't hesitate to ask any member or officer! I am available at president@slasonline.org or 314-909-7211
2. Get involved! We have so MANY great activities going on that there is PLENTY for everyone to enjoy.
3. The best way to get involved is to just jump in! Don't hesitate to attend an event even if you weren't on the RSVP list. Someone will help you out. You DON'T NEED TO HAVE A TELESCOPE TO PARTICIPATE. Sometimes telescopes might be provided, in all cases, you can still participate without a telescope. If you need help with Night Sky Network and RSVP systems, let someone know!
- 4 ATTEND the NEW MEMBER Meeting that occurs before each regular SLAS meeting at 6:30pm! Brad Waller can help get you orientated with everything SLAS.

Members of SLAS

If you have a suggestion of someone who you think would make a good speaker for our Monthly Meetings, please get their Phone# and E-mail address and send it on to Bradley

R. Waller, vicepresident@slasonline.org . Just remember, the more information you can provide, the better chance I have to reach them. Make sure you include the topic you want to hear about.

(Continued from page 1)

- St. Charles City-County Library - 6 telescopes
- Jefferson College Library – 3 telescopes (new)
- Festus Public Library – 2 telescopes
- Cape Girardeau Library – 1 telescope (new)
- SEMO Kent Library – 1 telescope (new)
- University City Library - 1 telescope
- Webster Groves Library - 1 telescope
- Illinois (3 telescopes):
- Louis Lazter Memorial Library – 2 telescopes (new)
- East St. Louis Public Library – 1 telescope (new)
- SLAS trainers – 3 telescopes

In distant markets such as Cape Girardeau County, Perry County and Franklin County, we have solicited support from organizations that are close to that market. For example, Eastern Dark Sky Observers already meet at the Scenic Regional Library in Union and have agreed to provide maintenance and star party support for Scenic Regional Library which is based in Union, MO. Similar arrangements have been made in other markets.

We are going to need serious help on August 6th for the build – 46 telescopes is a big number. Please help solicit volunteers.

Right: The first 36 telescopes received from UPS.



14th Annual SLAS Star-B-Q

Saturday, August 20, 2016

Walnut Grove Picnic area

Come join fellow members of the SLAS at **Babler State Park** for a day of food, softball, games, and observing. SLAS will once again provide the Bar-B-Q. We ask is for you to bring your favorite drinks and side dish or dessert. ***This area has a large shelter, restrooms, and baseball fields. There is also plenty of room to set up volleyball or horseshoes if you wish to bring them. We will observe from the ball fields.*** Don't have a telescope? Don't worry, this is a great chance to see other member's telescopes.

Remember: Members should bring a drinks and a favorite side dish or dessert. **Don't forget to bring your telescope or binoculars, chairs and bug spray!**

Schedule of Events

3pm - Picnic begins

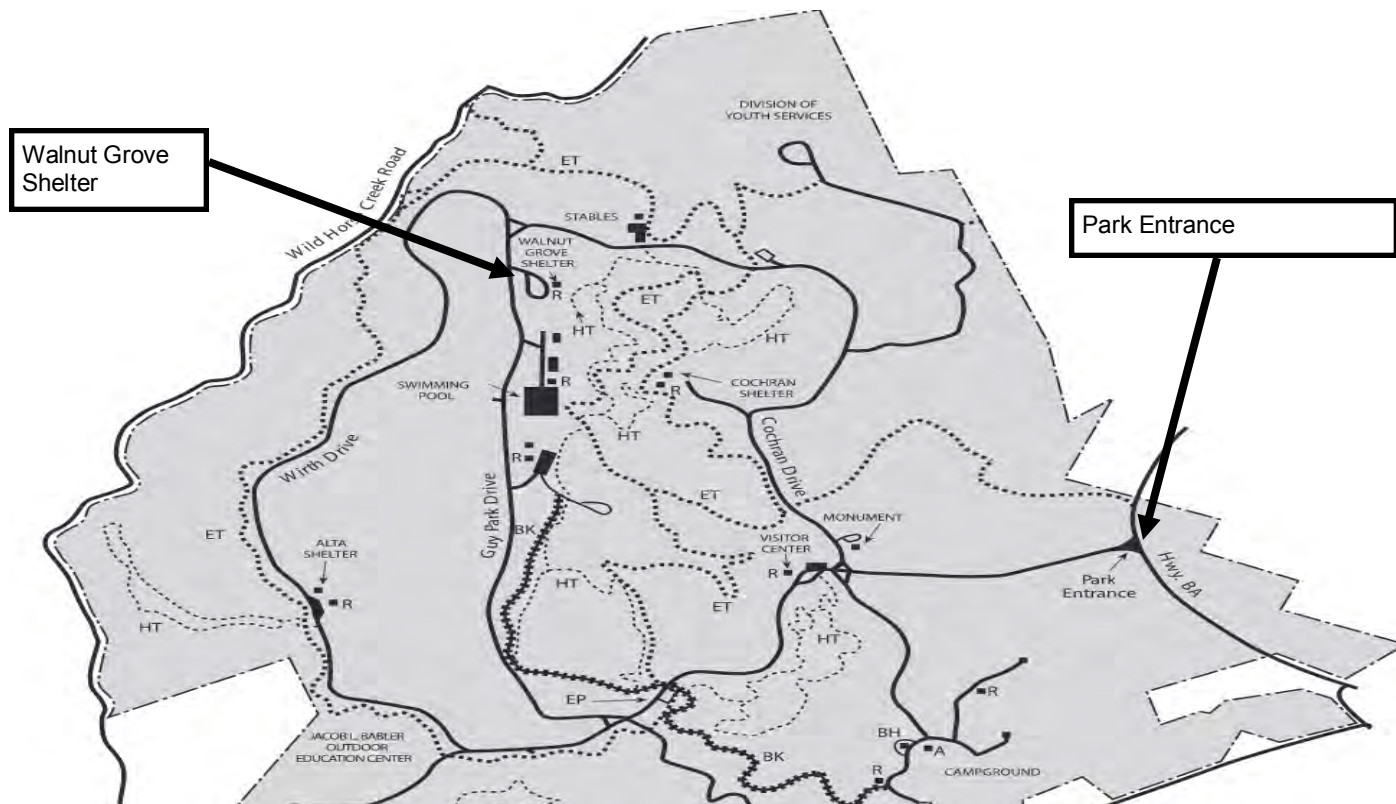
4pm - 6pm Food line open

5pm-7pm SLAS Softball Game bring your glove and bat

7pm-8pm Trivia Contest (with prizes)

8pm- Midnight Observing at picnic site

Special Note: There will be solar viewing during the day and the Moon will be just past Full.



Outreach Volunteers Jan-June 2016 by Mark Jones

Through the first half of 2016, SLAS members have logged 848hrs for 76 NSN outreach events. We are on a pace to exceed our 2015 totals of 1396 hours for 91 events. Members with 5 or more events can qualify for the Night Sky Network pin. Check NSN for opportunities and sign up today. If you are a member with 4 or less events logged this year there is still time to volunteer.

Thank you to all our volunteers!

Donald Ficken	47 events; 117.3 hours
Cook Feldman	28 events; 100.6 hours
Larry Campbell	21 events; 66.5 hours
Mark Jones	19 events; 61.5 hours
Rich Heuermann	17 events; 60.5 hours
John Beaury	16 events; 63.5 hours
Frank Mack	12 events; 31.5 hours
James Small	11 events; 34.5 hours
Rick Menendez	9 events; 27.5 hours
Sharon Bertram	8 events; 28.5 hours
Richard Fefferman	6 events; 15 hours
Bill Biermann	5 events; 11.5 hours
Bill Breeden	5 events; 16 hours
Jim Trull	5 events; 16.5 hours
Richard Jennings	5 events; 12 hours
Rita Breeden	3 events; 10 hours
Ann Trull	2 events; 6 hours
Bradley Waller	2 events; 7 hours

Dale Engelbrecht	2 events; 7.5 hours
Doug Blum	2 events; 4.5 hours
Gaylene Engelbrecht	2 events; 7.5 hours
Gregory Gaines	2 events; 9 hours
Jeffrey Strauss	2 events; 4.5 hours
Lynn Fee	2 events; 9.5 hours
Robert Beebe	2 events; 10.5 hours
Robert Drzymala	2 events; 8 hours
William Neubert	2 events; 8 hours
William Winningham	2 events; 6.5 hours
Alan Sapia	1 events; 7 hours
Brent Buch	1 events; 4.5 hours
Donald Snyder	1 events; 0.3 hours
Edward Frey	1 events; 7 hours
Gary Holt	1 events; 7 hours
Gerald Hutchins	1 events; 7 hours
Gregory Rigelman	1 events; 2.5 hours
James Griffith	1 events; 2.5 hours
Lee Halbeck	1 events; 3 hours
Mark Fedde	1 events; 4 hours
Marlene Bopp	1 events; 8 hours
Michael Callaghan	1 events; 1.5 hours
Michael Malolepszy	1 events; 2 hours
Michelle Birch	1 events; 8 hours
Mike Saville	1 events; 7 hours
Roy Lieberman	1 events; 0 hours
Thomas Schloemann	1 events; 6 hours
Timothy Hulla	1 events; 1.5 hours
Wayne Clark	1 events; 6 hours



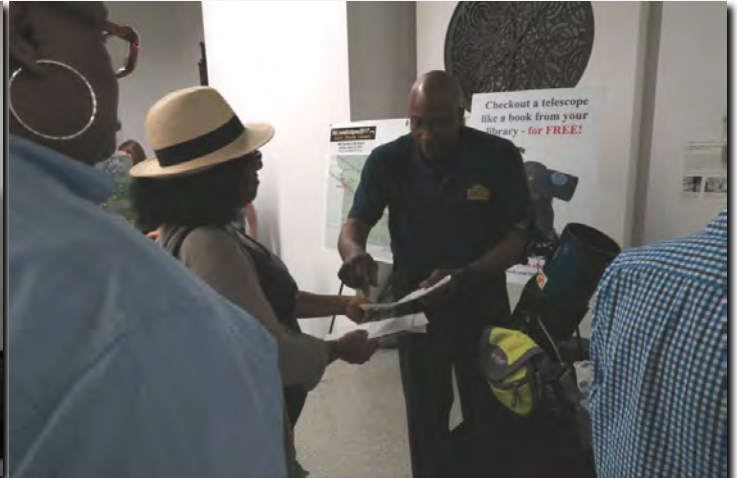
First Quarter Moon
2016 JUN 12 03:49 UT
Danville Conservation Area
Samsung Galaxy II Smartphone Camera
LX90 8-inch SCT, 32mm eyepiece
attached by camera bracket
Photo by Bill Breeden

Left: Bill Breeden snaps a photo with his smart phone at Danville.

Right: Mark Jones finally completes his double star observing program after capturing that last elusive star!

Congratulations to Mark on a job well done!

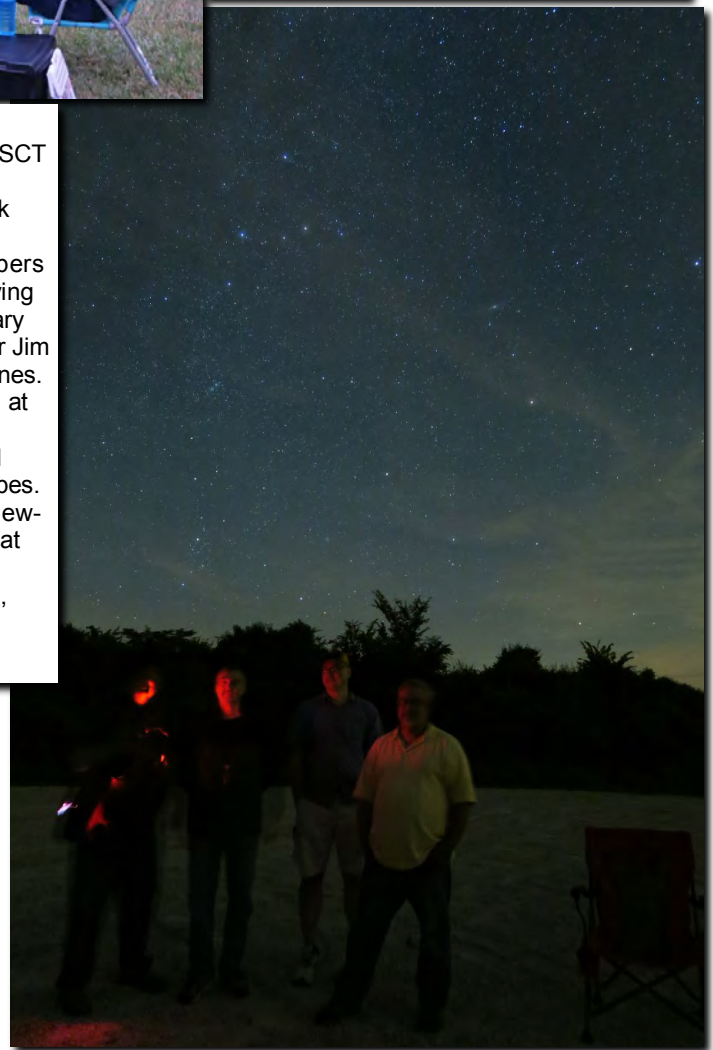




Above left and right: John Beaury and Frank Mack talking to patrons for the SLAM Underground event at the St. Louis Art Museum



Above left: Joe Shober with his 8" SCT at Des Peres Park.
Above Frank Mack awaits darkness.
Above right: campers at Des Peres studying Mars. Left: planetary observing at Babler Jim Small and Mark Jones.
Below left: Crowd at First Friday around Cook Feldman and John Beaury's scopes.
Right: Dark sky viewing and Milky Way at Whiteside with Jim Small, Bill Breeden, Jerry Loethen and John Beaury.



SLAS Executive Board Meeting Minutes for June 9, 2016

1. Opening Activities:

Attendees: Jim Small, Brad Waller, Larry Campbell, Brent Buch, Bill Winningham, Mark Jones, Tom Nickelson Meeting opened at 7:05pm Motion to approve May meeting minutes made by Brad second by Tom. Minutes were approved

2. External Business

Next board meeting: July 7, Aug 10 (Wed), Sep 8, Oct 6, Nov. 10, Dec 7 (Wed) Jim Small, Brent Buch will be at ALCON Aug 10, move Board meeting to Aug 3rd. Jim will ask Don to contact YMCA to change meeting room date to Aug 3rd.

3. Director Reports:

President – Jim Small: Report from MSRAL 2016: Successful Conference, many door prizes, great speakers, Don Ficken was awarded Amateur of Year, Cook plans to close books by next month but there was a profit to SLAS ASKC and MSRAL. Over 50 were in attendance.

Vice President –Bradley R. Waller: Speaker line up for next few months: June - Mike Roberts July – Jane Rix – sketching the night sky August – John Wharton 1 year out from the Eclipse September – Gary Gackstatter - Archeoastronomy October Dr. Katermerch Wash U – LIGO

Astro 101 – June: Bill Neubert, July: Wayne Clark, August: Grant Martin

Brad picked up drawing paper for the June Meeting, expense comes out of the speaker budget Awards Paper Brad picked up comes out of Recognition Budget SLAS Coffee Mugs for Presenters, 16oz cup one color SLAS logo front, and Join the Collective” on back. Qty 36 price is \$220. Plan to sell for \$10 each. Initial cost will come from Speakers Budget. Board approves proposal. Jim will send SLAS logo to Brad SLAS Pens – Brad will check on price Reflective Vests – We could purchase glow in dark thread. Brad has person that can do screen printing. Two LTP scopes are now checked out John Beaury won raffle for MSRAL registration. Profit form raffle was \$9. Jim Lovell raffle was loss of \$20

Secretary – Mark Jones: Lens sale report, another lens sold in June, sales for 2016 more than \$10,000 Eclipse committee is going to buy 3000 eclipse glasses for resale. Plan will be similar to ASEM sell glasses for \$0.30 each minimum qty of 100.

Treasurer/ALCor – Bill Winningham: See separate reports YTD net income \$9800, which is more than \$11,900 over the income budgeted for 2016.

Hospitality – Larry Campbell: Larry presented name tags from MSRAL. Larry will reuse old badges for June meeting and Board members are to provide ideas for nametag content

Board member at large reports

Tom Nickelson: (2017) No report

Brent Buch (2018) Jim posted May SLAS video to Dropbox, Brent to download and try to publish to YouTube

Rich Heuermann (2019) No report

4. Committee Reports: If needed

Library Telescope Program- July 1 is deadline for next LTP build. Then parts will be ordered and build will be scheduled. Looking at July 23rd as possible date.

Membership – Separate report submitted. Membership as of 5/31/2016 is 154. Membership up 5% over year ago, but we still

lose about as many old members as we gain new members. This is keeping our membership consistently between 150-170 members over last seven years.

Merchandise –

Newsletter – Need articles

Observing Programs – Mark picked up extra copies of the Universe Sampler award book by MSRAL. Books are \$10 each, will sell to any member who want to work on the award

Star Parties: star party list submitted by Bill.

5. Old Business – None

6. New Business –

Motions for the board:

2. MOTION (REVISED)

Motion needed for SLAS to sponsor eclipse expo at Queeny Park in June 17, 2017. The purpose of the Expo will be to recruit exhibitors to promote their products and for SLAS and various members of the Eclipse Task Force (SLSC, Wash U, ASEM, etc) to promote the eclipse to the general public. Estimated Expo cost is \$3000 to cover event space, signage, promotion, insurance and guest speakers. Contract with Queeny is without financial obligation until 60 days prior to event. Eclipse Task Force Committee will manage the event. Funding of the Expo will be through any combination of eclipse escrow funds held by the eclipse committee and/or new funding from sponsor fees, participant fees, grants, profits of eclipse glasses or other funds raised by the eclipse committee. If escrow costs and new funding are not deemed appropriate to cover costs by the date required to cancel the contract to avoid obligation, SLAS will withdraw from contract. SLAS will be required to increase its insurance to meet the following contract language: Shall maintain and keep in force general liability insurance during the duration of the rental period. ST. LOUIS COUNTY shall be named as additional insured, in the amount of not less than \$385,000 per person / \$2,600,000 per occurrence combined single limit for bodily injury and property damage. Coverage shall include products completed operations, if food, beverages or products are sold. The Certificate of Insurance should include a waiver of subrogation in favor of St. Louis County. USER will cause to be issued, and filed with the Department of Parks and Recreation, a certificate of such insurance containing the aforementioned coverages as well as the issuing insurance company giving the COUNTY thirty (30) days written notice in advance of any changes or cancellation or non-renewal. Motion discussed. Motion to approve with change made by Mark, second by Tom. Motion passed.

3. Motion to approve partnership agreement between St. Louis County Library and SLAS Agreement is needed by SLCL to establish formal relationship including compensation for SLAS services. Primary services provided are related to the Library Telescope Program. Agreement will not obligate SLAS to any cost. Payments received from SLCL will be managed by the Library Telescope committee and the Board.

Motion tabled. Jim, Mark and Don will update the contact and send full board for review then if approved we will forward to SLCL for their approval. Once SLCL and SLAS have agreed to wording the motion to approve the agreement will be voted on by the Board.

7. Closing Activities Motion to adjourn the meeting by Brad, Larry seconded motion, meeting adjourned at 9:25pm

5:05 PM
07/11/16
Accrual Basis

**St. Louis Astronomical Society
Profit & Loss Budget vs. Actual
January through June 2016**

	<u>Jan - Jun 16</u>	<u>Budget</u>	<u>\$ Over Budget</u>
Ordinary Income/Expense			
Income			
Magazine Subscription	696.33	864.25	(167.92)
Membership Dues	1,900.00	1,860.00	40.00
Total Merchandise Sales	4.00	0.00	4.00
Total Income	<u>2,600.33</u>	<u>2,724.25</u>	<u>(123.92)</u>
Cost of Goods Sold			
Magazine Subscriptions	647.15	864.25	(217.10)
Total Merchandise	2.51	22.50	(19.99)
Total COGS	<u>649.66</u>	<u>886.75</u>	<u>(237.09)</u>
Gross Profit	<u>1,950.67</u>	<u>1,837.50</u>	<u>113.17</u>
Expense			
1-Programs & Events	522.96	1,030.01	(507.05)
2-Newsletter	96.40	100.01	(3.61)
3-Library expense		49.99	(49.99)
4-Astronomical League Dues	700.00	695.00	5.00
5-Loaner Scopes		25.00	(25.00)
7-Insurance	380.00	380.00	
8-Website	155.40	150.00	5.40
9-Administrative Expenses	203.53	725.00	(521.47)
Total Expense	<u>2,058.29</u>	<u>3,155.01</u>	<u>(1,096.72)</u>
Net Ordinary Income	<u>(107.62)</u>	<u>(1,317.51)</u>	<u>1,209.89</u>
Other Income/Expense			
Other Income			
Total Donations	450.05	0.00	450.05
Eclipse Escrow Receipts	878.00	0.00	878.00
Interest Income	22.61	0.00	22.61
LTP Receipts	8,799.00	0.00	8,799.00
Non-Operating Income ^{1,2}	458.98	0.00	458.98
Proceeds from Lens Sales	10,836.01	0.00	10,836.01
Total Other Income	<u>21,444.65</u>	<u>0.00</u>	<u>21,444.65</u>
Other Expense			
Astro Mag Award Disbursements	472.76	0.00	472.76
Eclipse Escrow Disbursements	708.43	0.00	708.43
Eclipse Escrow Funding	800.00	800.00	0.00
LTP Disbursements	8,651.33	0.00	8,651.33
LTP Escrow Funding	1,000.00	1,000.00	0.00
Non-operating Expense ¹	59.00	0.00	59.00
Total Other Expense	<u>11,691.52</u>	<u>1,800.00</u>	<u>9,891.52</u>
Net Other Income	<u>9,753.13</u>	<u>(1,800.00)</u>	<u>11,553.13</u>
Net Income	<u>9,645.51</u>	<u>(3,117.51)</u>	<u>12,763.02</u>

¹ An individual mistakenly signed up for SLAS instead of the Science Center, membership and magazine funds refunded.

² Includes \$399.98 of proceeds from MSRAL 2016.

**St. Louis Astronomical Society
Balance Sheet
As of June 30, 2016**

	<u>Dec 31, 15</u>	<u>Jun 30, 16</u>
ASSETS		
Current Assets		
Checking/Savings		
Astronomy Magazine Award**	465.72	0.00
Checking - First Bank	2,940.49	2,632.74
Deposit, Certificate of	20,128.23	20,128.33
Library Telescope Escrow [†]	444.55	643.46
Merchandise Change Fund	20.00	20.00
PayPal	82.51	222.16
Savings - First Bank	5,361.90	16,200.42
SLAS Eclipse Conference Escrow***	539.12	604.32
YMCA Trout Lodge Escrow	542.87	542.87
Total Checking/Savings	<u>30,506.39</u>	<u>41,084.30</u>
Other Current Assets		
Inventory Asset	1,410.53	1,532.13
Investment in Mid-States 2016	1,000.00	0.00
Undeposited Funds	55.00	0.00
Total Other Current Assets	<u>2,465.53</u>	<u>1,532.13</u>
Total Current Assets	<u>32,970.92</u>	<u>42,616.43</u>
Total Fixed Assets	<u>0.00</u>	<u>0.00</u>
TOTAL ASSETS	<u>32,970.92</u>	<u>42,616.43</u>
LIABILITIES & EQUITY		
Equity		
Opening Bal Equity	8,137.66	8,261.77
Retained Earnings	24,464.84	24,833.26
Net Income	368.42	9,521.40
Total Equity	<u>32,970.92</u>	<u>42,616.43</u>
TOTAL LIABILITIES & EQUITY	<u>32,970.92</u>	<u>42,616.43</u>

[†] Funds restricted for the Library Telescope Program. \$444.55 was carried over from the end of 2015. Reflects \$1,000 from the 2016 budget.

** Funds from Astronomy Magazine Award, available until 4/10/2016 (funds have been spent).

*** Registration fees and donations for SLAS sponsored eclipse seminars. Also includes \$800 from the 2016 budget.

Wanted: Newsletter Articles!

The Event Horizon needs articles from people like YOU!

Interviews, current astronomy topics, historical articles, you name it, we can use it! Send what you have to: newsletter@slasonline.org

Wanted: Volunteers!

Be sure to sign up on Night Sky Network for upcoming star parties. Lead volunteers need to know who will be there so they can tell where we are falling short. If you aren't sure how to RSVP, please ask anyone at the meeting and we can show you how on the computer after the meeting. Or contact any board or committee member to find out. See you at the next star party!

SLAS EVENTS

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 the Edward Jones YMCA* All meetings are on Thursdays unless noted.
Wed, Aug 10, Sep 1 (note date change), Oct 6, Nov. 10, Dec 7

Dark Sky Observing Dates

8/6/2016, 9/3/2016, 10/1/2016, 11/5/2016.

Francis Park Events: These events are on Thursdays the week nearest the first quarter Moon
8/10/2016, 9/7/2016, 10/5/2016

SLSC Public Telescope Viewing Events: These events are held the first Friday of the month
Planetarium shows start at 7pm

8/5/2016, 9/2/2016, 10/7/2016, 11/4/2016, 12/2/2016

YMCA Edward Jones Star Parties (generally third Mondays)

7/18/2016, 8/15/2016, 9/19/2016, 10/17/2016

Broemmelsiek Astronomy Park Public Viewing
Every Friday night with ASEM members

UMSL Observatory

For directions and map

<http://www.umsl.edu~physics/astro/directions.htm>

All sessions include viewing of 1st quarter Moon with additional objects Skywatch Hotline: 314-516-5706 Saturdays: 8/13, 9/10, 10/8, 11/5

July

13 Wed
14 Thur
15 Fri
16 Sat
18 Mon
23 Sat
24 Sun

Boy Scouts STEM day at Beaumont
St Charles Deer Run star party
SLAS regular meeting
Sidewalk Solar Observing SLSC
Edward Jones YMCA Star Party
Solar Viewing at the Gateway Arch
Sky Orienteering Babler State Park

August

3 Wed
5 Fri
6 Sat
6 Sat
10 Wed
10 Wed

SLAS board meeting
SLSC Public Telescope Viewing
Library Telescope Program Build
SLAS Dark Sky Observing
Francis Park
St Charles Library Kathy Linne
mann Star Party
Stargazing at the Arch
Edward Jones YMCA Star Party
SLAS regular meeting
Sidewalk Solar Observing SLSC
Annual SLAS Star-B-Q
Grants View Library Solar program
Sky Orienteering Babler Park

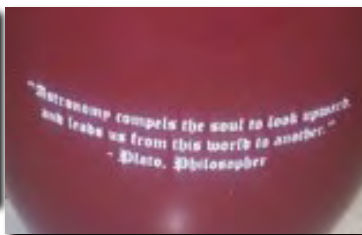
14 Sun
15 Mon
19 Fri
20 Sat
20 Sat
22 Mon
28 Sun

September

1 Thur
1 Thur
2 Fri
3 Sat

SLAS board meeting
Twin Cities Optimist Club
SLSC Public Telescope Viewing
SLAS Dark Sky Observing

A NEW SLAS COFFEE MUG



Pictured here is the latest SLAS Coffee Mug. You might be asking yourself, "Self, How do I get one of these FABULOUS 16 oz SLAS Coffee Mugs?" Well, there are two ways. The first is FREE!!! All you need to do is be The Main Presenter at one of SLAS's Monthly Meetings. Yes, if you think you can handle that, just like, Dr Pamela Gay, Mike Clements, Dr Knutson, and hopefully Dr McKinnon, have done or will do, then the mug is yours!!! If you want Door #2, "Well, Johnny, tell us what is behind Door #2!!!" Give the Borg \$7 and the Mug is yours J If you want Door #2, please feel and send us an e-mail, bwaller@stlouisco.com, or phone us: 314-481-7250, and we will bring the mug to the next meeting.

SLAS Merchandise Available

SLAS merchandise is now set up for embroidery at

Headz n Threadz at <https://hnt.threadthis.com/>

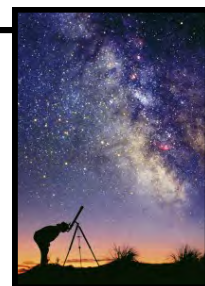
There are two locations:

Galleria: 2495 St. Louis Galleria, St. Louis, MO 63117 Telephone: 314.862.2695
galleria@headznthreadz.com

Delmar: 6662C Delmar Blvd St. Louis, MO 63130 Telephone: 314.863.2695
delmar@headznthreadz.com
[Delmar Map](#)

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 Logo is also available at Infini-tees



SLAS MEMBERSHIP APPLICATION



Name: Last _____
 First, Middle Initial _____
 Address _____
 City, State, Zip Code _____
 email address _____

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 @ \$29.95 / 1 year \$ _____
TOTAL ENCLOSED \$ _____

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

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	Brad Waller	314-481-7250
vicepresident at slasonline.org		
Secretary	Mark Jones	636-394-2342
secretary at slasonline.org		
Treasurer	Bill Winningham, (Don Ficken - membership)	636-225-0269
treasurer at slasonline.org		
Hospitality	Larry Campbell	636-244-2867
hospitality at slasonline.org		
Board Members at Large:		
	Rich Heuermann	314-962-9231
Board19 at slasonline.org		
	Brent Buch	314-239-0329
Board18 at slasonline.org		
	Tom Nickelson	314-346-9565
board17 at slasonline.org		
ALCOR	Bill Winningham	636-225-0269
(Astronomical League Correspondent) treasurer at slasonline.org		
MSRAL Rep.	Jim Small	314-909-7211
msral_rep at astroleague.org		

COMMITTEE CHAIRS

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Devoted to the Interest and Advancement of the Science of Astronomy

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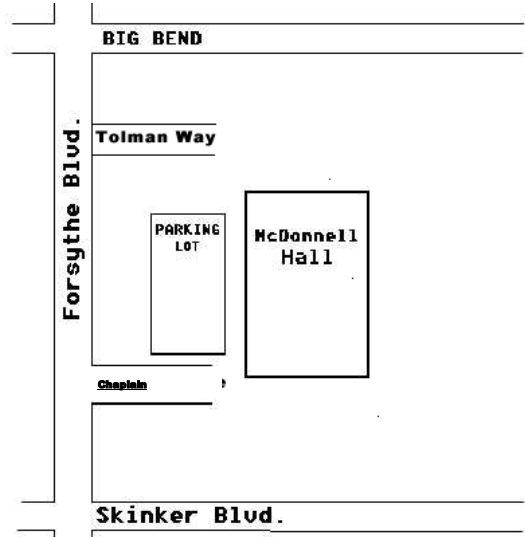


Who We Are and What We Do

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 anyone 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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