THE EVENT HORIZON

ST. LOUIS ASTRONOMICAL SOCIETY

Devoted to the Interest and Advancement of the Science of Astronomy

VOLUME 27, Issue 6
June, 2017

Preview of the August 21 Total Solar Eclipse Over Saint Louis

The June Meeting for SLAS will be a panel discussion moderated by Christian Greer of the Saint Louis Science Center, The meeting will begin at 7:30 PM Friday, June 16, at the Greensfelder Recreation Complex in Queeny Park, 550 Weidman Road, St. Louis, MO 63011 . The event, cosponsored by NASA's Missouri Space Grant Consortium, is open to the public free of charge, but advance registration is required. To register, please visit www.EclipseExpo.org.

A total solar eclipse will occur on August 21, 2017. A partial eclipse will be visible from anywhere in the continental United States. A total solar eclipse will be visible only along a 70 mile wide path that includes parts of Saint Louis City and County as well as parts of Saint Charles County and southeastern Missouri. The last total solar eclipse visible from St. Louis occurred on July 7, 1442.

The panel discussion will cover details about the total solar eclipse and feature the personal total solar eclipse experiences of panel members. The members include Mitzi Adams, Solar Scientist at NASA's Marshall Space Flight Center in Alabama; David Baron, journalist, public radio correspondent, and author; Dr. Mike Reynolds, Dean and Adjunct Professor of Astronomy at Florida State College; Dr. Angela Speck, Professor of Astronomy at the University of Missouri, Columbia; and Michael Zeiler, cartographer, author, and eclipse website owner.

For more information about the August eclipse, including eclipse path maps and safe viewing practices, please visit www.stlouiseclipse2017.org .

Upcoming Meetings:
July: TBA
August: TBA
September SLAS Collective Solar Eclipse Results
October: Heinric Krawczynski, Wash U
November: William McKinnon, PhD PLUTO Wash U

Inside This Issue

President's Corner MSRAL Gallery	2
MSRAL Gallery	3
MSRAL Gallery	4
ISDC Gallery	5
First Friday/Build Gallery	6
Board Minutes	7
Mark Jones	8
Financials	9
Events	10
Contact	11

SLAS REGULAR MEETING MOVED FOR JUNE !!!!

We will NOT be meeting at Washington University for the June meeting. Because of the Eclipse Expo, we will be meeting at Greensfelder Recreation Center in QUEENY PARK IN ST. LOUIS COUNTY 550 Weidman Road, St. Louis, MO 63011

Eclipse Expo!

Saturday, June 17, 2017

www.eclipseexpo.org

This is one event you DON'T want to miss! We already have great exhibitors and speakers like nothing St. Louis has seen before. Be sure to sign up on the website for your FREE tickets for the expo! They are free as long as you sign up before the day of the expo! We already have nearly 2000 people signed up to attend at this writing!
Here is the link for tickets!

http://eclipseexpo.org/index.php/tickets

Presidents Corner - Jim Small

THE JUNE MEETING WILL BE HELD FRIDAY, JUNET 16, AT 7:30PM AT THE QUEENY GREENSFELDER CENTER FACILITY where the expo will be held. It will be a panel discussion and will also provide an opportunity to talk to some of the vendors if you arrive between 6 and 7:30pm. Be sure to mark the change on your calendar!

YOU MUST HAVE A TICKET FOR THE MEETING!. There are currently 650 people signed up for the Friday meeting at Queeny. Please sign up at **www.eclipseexpo.org** to get your free ticket for the meeting. In case you forget, I have 50 tickets reserved in my name to make sure people who come that don't know about the tickets can get in.

There are currently over 6000 people signed up for the Eclipse Expo. If you haven't signed up for the expo, be sure to visit **www.eclipseexpo.org** and get your free tickets.

Be sure to sign up to volunteer for the EXPO!!! We need all hands on deck Friday morning to help set up the expo. Saturday, be there by 9:00 am to help set up and to get instructions for volunteers. We will need people to man tables, help set up on Friday and tear down tables Saturday at 5 pm when the expo ends.

The International Space Development Conference was great! Thanks to all the volunteers who came to assist with the table in the exhibition hall and the Star Party Sunday evening. All of the attendees I spoke to were excited to look at the Moon and Jupiter through our telescopes.

We had a terrific crowd at Keiner Plaza for the Be a Tourist in Your Own Town event before a Cardinal game. We got to talk to several hundred people as they walked by our prime location on Broadway on their way to the game.

MSRAL was held this past weekend. It was a high quality experience for those who attended. Numbers weren't high, about 45 attended, but the food was great, Baker Observatory was fantastic, the talks were excellent and our own Mark Jones was awarded Amateur of the Year for 2017! Congratulations to Mark! Cyndie couldn't be there, but we managed to have his daughter Merideth and her fiancé down for the banquet!

It's been a hectic week, but the Expo is here and I am truly excited for this weekend's events!!!! We'll see you (and the rest of all the people coming) Friday night and Saturday at Queeny Park!

Jim Small

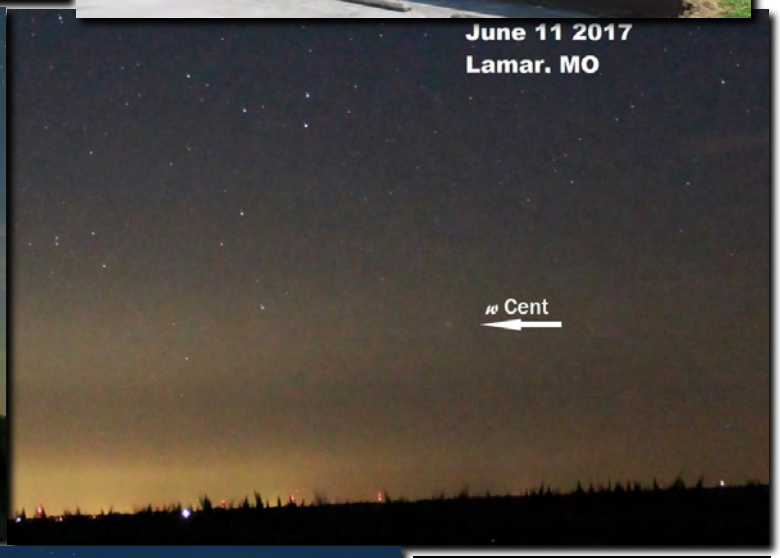
Clockwise: Mark Jones receives the Amateur of the Year award at MSRAL.

Baker Observatory and piers.

C14 in the Eastern dome of Baker.

Audience at MSRAL meetings.

St. Louis attendees at MSRAL



Clockwise:

MSRAL 2017 Group shot in front of the MSU Bear.

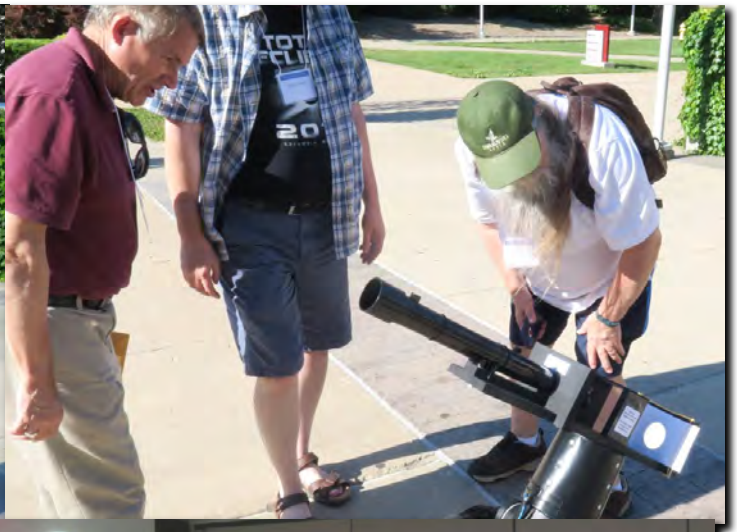
Angela Speck delivers the keynote talk for the MSRAL Banquet.

Stillabower Public Observatory in Lamar Missouri. It boasts a C14 under the dome.

Omega Centauri under the skies of Prairie State Park. Photo by Mark Jones.

Baker Observatory as Pollux and Castor set in the west.

John Beaury, Mark Jones and Jim Small set up to observe at Prairie State Park



Clockwise:

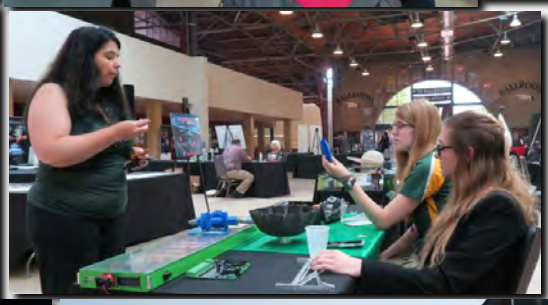
Mark Jones shares views through the Galileoscope Solar Projection System with MSRAL attendees.

It's not MSRAL without a buffet!

MSRAL Attendees at Baker Observatory

It's not MSRAL without door prizes here distributed by Dr. Henry Stratemann, Chair of this year's MSRAL.

Did I mention that food is important at a MSRAL convention???



Top Row: Exhibit hall at ISDC. Mark Jones explains Library Telescopes to Jeff Smith. Our favorite, Ray Arvidson on Mars

Middle: Star Wars characters kidnap our Mars and Pluto globes. Dr. Pamela Gay talks to the MS&T Robotics team next to our booth. Student from India observing the Sun

Bottom: Brad and Michelle observe the Moon at the ISDC star party. Mark Jones and his refractor Two Chinese students work on taking astrophotos with their phones.

Students from Romania get a close look at the Moon through the Planet Killer.

Left: Rich Heuermann and Wayne and Nancy Clark discuss the upcoming eclipse with the Kirkwood-Webster Times

First Friday!

Top: Rick Menendez at the SLAS booth at the Be a Tourist in Your Own Town event. Bill and Rita Breeden at First Friday.

Middle: John Beaury assists with binoculars at First Friday. Massive telescope and projector build at Don Fickens House

Below: Part of the 97 Galeleoscope Solar Projection Systems assembled for the Expo on June 17 to be distributed for check-out to teachers at schools.

SLAS Executive Board Meeting Minutes
May 4, 2017

1. Opening Activities: Attending: Jim Small, Brent Buch, Tom Nickelson, Larry Campbell, Mark Jones, Brad Waller, Liz Schankmannn, Grant Martin. Watermain break at Edward Jones YMCA forced location change to Mark Jones' house. Meeting started 7:46pm April meeting minutes distributed by email before the meeting. Brent B made motion to approve minutes, second by Tom N. Minutes were approved

2. External Business

Next board meetings: Jun 7 (Wed), Jul 6 (Wed), Aug 9 (Wed), Sep 7 (Thu), Oct 5 (Thu), Nov 9 (Thu), Dec 7 (Thu)
Grant Martin presented interesting new product as a possible merchandise item for SLAS. Light hoods $8.69 each for qty 5-10 plus setup charge $30. http://www.alpineproducts.com/p-403-bino-bandit.aspx

3. Director Reports:

President – Jim Small: 1. Expo is really gearing up. 2800 visitors registered and 70 exhibitors. eclipseexpo.org 2. 281 tickets sold for June 16 SLAS meeting at Queeny Park. Limit 500. 3. Mid-States June 9-11 Registration link at msral.org http://www.springfieldastronomy.org/?Q=MSRAL 4. ISDC May 25-29. Prizes to be ordered by Rich Heuermann. Volunteers needed to staff the SLAS table and SLAS star parties. You can also volunteer at ISDC and get discounted meeting registration 5. Committees to meet this month: Membership recognition needs have a meeting sometime right after our regular meeting so we can recruit some folks to help with the committee. 6. Social networking committee should meet to set ground rules and goals. We will designate a new committee and head for this effort beginning this month. They should also have a committee meeting after the regular meeting sometime to discuss the plan for social networking. 7. Contact and practice the Zoom conference for this month's meeting with the speaker. .8. Loaner scope transfer: A new scope and equipment along with Sky and Telescope collection has been donated. Transfer of loaner scopes to Jim Small's house will take place after Memorial Day sometime. 9. Elections: Nominees are Jim Small - President, Brad Waller - Vice President, Mark Jones - Secretary, Bill Winningham, Treasurer, Larry Campbell, Hospitality, and Tom Nickelson Board Member at Large. Additional nominees can be made at May meeting. Election will occur at May meeting

Vice President: Bradley R. Waller Speakers for 2017: *May: Kara Kundert *"Skype Event" "First Light: Observing the Cosmic Dawn with Paperclips and a Supercomputer"* *June: *Eclipse Panel Discussion* with Angela Speck, Mike Reynolds, Michael Zeiler, Mitzi Adams, John Weis *July: Ryan Clegg-Watkins, PhD *"Exploring the Moon from Orbit: Paving the Way for Future Astronaut Explorers"* *August: TBD *September: *"Results from TSE"* *October: Heinric Krawczynski, *November: William McKinnon, PhD *"PLUTO"* *December: Amy E Kimball, *Skype Event "Radio Quasars & the VLA"* **Possible August SLAS meeting topic:** Eclipse weekend topics: Weather, Safety, Where to go?

Reflective Vests - Brad working on inventory of vests.

Astro 101 Topics– May- Sunspotter and Galileoscope Press Releases June – None July Youtube videos for iphone camera brackets, **Capture the Moon With Your Cell Phone & Telescope** https://www.youtube.com/watch?v=T_YWmwAPGcw Homemade cell phone mount for telescope https://www.youtube.com/watch?v=-bewm8Qic58 Making a iPhone telescope adaptor https://www.youtube.com/watch?v=U64v7Xr9yrM Smartphone afocal adapter for astronomical telescope https://www.youtube.com/watch?v=StBXQsQKI7s EOTS: Smartphone camera bracket for telescopes https://www.youtube.com/watch?v=XQwRnwwNQTA
Membership initiatives - Membership Initiative Prizes: Inventory *4 Books: "How I Killed Pluto…" Mike Brown (Signed) *2 Eris photos signed by Mike Brown *1 book: "An Astronauts Guide to Life on Earth" Chris Hadfield (Signed) *1 CD: "Space Sessions" Chris Hadfield (Signed) ***Neil deGrasse Tyson Update**: Tickets distributed to winner: Christine Nobbe. Shortfsll $42 but Email brad some ideas for give-a-ways: AL book stores, pocket sky atlas, solar bins, Infiitees-gift certificate

Welcome aboard new members meeting still planned for each month.

Secretary – Mark Jones: No report

Treasurer/ALCor – Bill Winningham: Insurance update, lens check, financials.

Hospitality – Larry Campbell: I gave another eclipse presentation on the morning of April 26th to a church group in St Charles County. We had about 25 people in attendance. I will be repeating it for different church group on July 6th. Also, I might be doing it for my niece's Eighth Grade class on May 12th. Larry to send events to Bill Breeden

Board member at large reports

Tom Nickelson: (2017) No report

Brent Buch (2018) – Discussion of how to store and view SLAS meeting videos. Store on YouTube; store on SLAS website and password protect; store on private FB page.

Rich Heuermann (2019) ISDC volunteer information (Memorial Day weekend) Rich has ordered the items for giveaways for the conference.

4. Committee Reports:

Library Telescope Program: Next build June 3 at Don Ficken's house

Membership – ~ 163 members at this time

Merchandise – Infini-tees shirts for sale - $20, TSE mug???

Librarian – Will pick up a copy of Neil de Grasse Tyson's new book for the library. "*Astrophysics for the Person in a Hurry*"

Newsletter – Articles and pictures (especially pictures) are welcome to beef up the newsletter and our social media outlets. Please forward to newsletter@slasonline.org Newsletter will not go out before May 14. Discussion about redesign of brochure and what to do with them. (content, replace with cards, supplement with cards, reduce to front and back handout, etc.)

Website – www.slasonline.org/joomla plans in place to activate new edition of website before the expo

Social Networking – Public Facebook and twitter accounts going well. Submit pictures to Michelle for incorporation into Facebook account. Both ID's are stlastro Facebook pages are also active for the eclipse and for the expo. Private Facebook page is also active. Members-Only FB: https://www.facebook.com/groups/slasonline/ Public FB: https://www.facebook.com/stlastro/ Eclipse FB: https://www.facebook.com/stlouiseclipse2017/ librarytelescope@slasonline.org https://www.facebook.com/eclipseme Twitter @STL_Eclipses @stlastro

Night Sky Network – One of our events from Jefferson County was randomly selected in a drawing and WE WON! NSN is sending us a PLUTO GLOBE!!!!

(Continued on page 8)

(Continued from page 7)

Loaner – Scopes New telescope (homebuilt 4.5 in Newtonian) 8x56 binoculars, tripod and many copies of sky and telescope donated. Move shed with scopes to Jim's house after Memorial Day, keys to be made available to several people to help manage and distribute scopes. We will work through inventory and sell some scopes, use funds from sale to provide cases for PST scopes (2) and cases for sets of eyepieces, etc to be handed out with scopes Scope sale will likely be at the July meeting before the eclipse. There will likely be a sale of Sky and Telescope and other magazines and possibly books at the same time. Or that perhaps can wait until later in the year.
Observing Programs – Rodney Rynearson willing to help with Observing Programs
Star Parties: Review of outreach events next 3 months
5. Old Business Board agrees to table the proposal to Membership committee. Recognition Proposal from December 2016**.** An annual membership recognition award called "The Lois Fitter Lifetime Outreach Award" be created to recognize long-time outreach volunteers who have volunteered for 5 or more years of outreach for the society with a minimum of 5 events per year. A nomination form and selection committee will be created by the membership recognition chair and the award will be presented (if nominations are available) when outreach volunteer recognition pins are presented. Discussion took place with Board. Proposal was moved to Recognition Committee for development of a comprehensive recognition program that goes beyond Outreach. Prior to meeting Mark Jones sent out the following ideas for recognition awards for members and non-members who support our mission: The Lois Fitter Outreach Award - given to most dedicated or most improved outreach participant or coordinator must be a SLAS member The Stuart O'Byrne Founders Award - given to board or committee person for service to SLAS, must be a SLAS member The Dick Schwartz Supportive Faculty Award - given to local educator at HS or college level who support SLAS mission don't have to be SLAS member The Robert Cox Popular Astronomy Award - given to person having major contribution to popularizing astronomy does not have to be SLAS member The Al Woods Mentoring Award - given to local amateur contributing to mentorship in astronomy, telescope and gadget making.

6. New Business Social Networking committee: Motion to create Social Media committee. Michelle Birch as chairman and Liz Schankmann as committee member. Further that Jim Small will set up email account social@slasonline.org Motion by Tom N. second by Larry C.. Motion passed. Liz will work towards setting up YouTube, Instagram and Snapchat with common name stlastro. Liz suggests a FB live events for the next LTP build
7. Closing Activities Motion by Brad W. to adjourn, Tom N. seconded meeting. Meeting was adjourned at 9:58am

Mark Jones Amateur of the Year Nomination Letter

From his time as an undergraduate at UMSL as a teaching assistant for Dr. Richard Schwartz, our candidate has been a member of SLAS. He has served as President, Vice President, Secretary, Loaner scope chair, Dark Sky Party Coordinator, Chair of our annual StarBQ for many years, was instrumental in the launch of the Library Telescope Program, and is consistently one of the most active in outreach activities. He has always been an active observer and really promotes observing to other members and is always there to help if someone needs it. He serves as our observing chair. He is also our most active member in terms of being involved in the operations of SLAS and is always there when tasks need to be done to benefit the society, and doesn't hesitate to help out where needed.

He has attended most MSRAL conventions since joining and volunteered to be MSRAL co-chair 3 times for our group and stepped up when help was needed when we were chairing the conference with another group. When he co-chairs, he is instrumental in making sure all aspects are covered, from obtaining speakers, to making sure volunteers are in place, to insuring that all the signs are made and in place. If any co-chair needs help from another group, he can simply forward "The List", his own comprehensive organizing checklist of all that needs to go into a conference, and as always, will provide it for anyone that needs help. He has singlehandedly done more for the success of the Mid States Region than most people.

He keeps our group on a prime directive and has been instrumental over the years in making sure that our board stays on task and is moving forward with our mission. It is his goal to keep us from being distracted. He is always helping to guide us to directives that both serve our membership and the public that we serve. If there is a way that SLAS can better bring astronomy to its members or the public, he is there to help us find the best way to accomplish that. He moves us to be efficient in our discussions and clear on our directives.

He is also there whenever a task to a greater mission needs to be accomplished. A few recent examples include: assembly of 95 Galileoscopes to be used for solar projection projects with our library telescope program. It had to be done, so he took time to do it. Dissemination of dozens of lenses and other optic materials that were donated to SLAS when a lab at Boeing closed down. He was also key in getting the Library Telescope program launched and that has now blossomed to include over 155 telescopes in library systems around the area. After much research and collaboration with people that can work with repairs, he worked with a buyer in California to make sure the lenses were sold to people who could use them with cameras used in motion picture equipment. Rather than the lenses going to waste, the sales have netted more than $30,000 so far for our group. He also has plans to make good use of the funds and is looking to be able to provide high quality telescope equipment that can be enjoyed by the public. We haven't figured out how that will happen, but he will insure it gets done right.

He also organizes events to help people with observing. He started our monthly sky orienteering events to bring people to a decent site for observing and to enjoy it without pressure or complicated plans. Pull up a lawn chair and a pair of binoculars and learn the night sky and see some sights you may not have seen before. A great way to learn the night sky in a relaxed manner. It has started to catch on in our group and we now have a nice core group that enjoys learning the sky together. If anyone needs help to be able to observe the sky, he is there to assist in any way possible. He also manages to do his own organized observing and has several AL observing awards.

He has also been instrumental in getting the St. Louis area ready for the Total Solar Eclipse. He is involved in all as-

(Continued on page 9)

9:19 AM
06/07/17
Accrual Basis

St. Louis Astronomical Society
Profit & Loss Budget vs. Actual
January through May 2017

	Jan - May 17	Budget	$ Over Budget
Ordinary Income/Expense			
Income			
Total Magazine Subscription	479.34	128.80	350.54
Membership Dues	1,805.00	1,215.00	590.00
Total Income	2,284.34	1,343.80	940.54
Cost of Goods Sold			
Total Magazine Subscriptions	350.45	128.80	221.65
Merchandise		22.50	(22.50)
Total COGS	350.45	151.30	199.15
Gross Profit	1,933.89	1,192.50	741.39
Expense			
1-Programs & Events**	736.34	1,299.00	(562.66)
2-Newsletter	97.31	73.00	24.31
3-Library expense		125.00	(125.00)
5-Loaner Scopes	5.00	25.00	(20.00)
7-Insurance*	825.50	380.00	445.50
8-Website	179.40	170.00	9.40
9-Administrative Expenses	104.17	698.50	(594.33)
Total Expense	1,947.72	2,770.50	(822.78)
Net Ordinary Income	(13.83)	(1,578.00)	1,564.17
Other Income/Expense			
Other Income			
Donations	750.00	0.00	750.00
Eclipse Escrow Receipts	8,355.12	0.00	8,355.12
Interest Income	26.66	41.67	(15.01)
LTP Receipts	3,039.84	0.00	3,039.84
Proceeds from Lens Sales	7,303.37	0.00	7,303.37
Total Other Income	19,474.99	41.67	19,433.32
Other Expense			
Eclipse Escrow Dispursements	4,907.59	0.00	4,907.59
Eclipse Escrow Funding***	1,500.00	1,000.00	500.00
LTP Disbursements	525.80	0.00	525.80
LTP Escrow Funding	1,000.00	1,000.00	0.00
Total Other Expense	7,933.39	2,000.00	5,933.39
Net Other Income	11,541.60	(1,958.33)	13,499.93
Net Income	11,527.77	(3,536.33)	15,064.10

* Reflects expanded insurance coverage over prior years

** Outreach budget reflects $150 approved by membership vote as a donation towards the International Space Development Conference.

*** Includes $500 inSt. Louis County Library donations associated with Eclipse related events.

St. Louis Astronomical Society
Balance Sheet
As of May 31, 2017

	Dec 31, 16	May 31, 17
ASSETS		
Current Assets		
Checking/Savings		
Checking - First Bank	3,957.19	3,370.34
Deposit, Certificate of	20,148.49	20,168.54
Library Telescope Escrow	799.33	2,004.93
PayPal	126.42	836.68
Savings - First Bank	29,755.97	37,065.95
SLAS Eclipse Conference Escrow	6,259.97	9,188.70
YMCA Trout Lodge Escrow	542.87	482.87
Total Checking/Savings	61,590.24	73,118.01
Other Current Assets		
Inventory Asset	1,360.92	1,360.92
Total Other Current Assets	1,360.92	1,360.92
Total Current Assets	62,951.16	74,478.93
Total Fixed Assets	0.00	0.00
TOTAL ASSETS	62,951.16	74,478.93
LIABILITIES & EQUITY		
Equity		
Opening Bal Equity	8,137.66	8,137.66
Retained Earnings	24,813.26	54,813.50
Net Income	30,000.24	11,527.77
Total Equity	62,951.16	74,478.93
TOTAL LIABILITIES & EQUITY	62,951.16	74,478.93

(Continued from page 8)

pects of getting astronomers and the public ready for the big event. He is a member of the St. Louis Eclipse Task force and attends all of the meetings we have had in the last two years to get ready. He is a good leader when it comes to making personal plans of how to observe and record and will help to get you organized to do what is needed to enjoy and record the event. He is currently assisting East Central College with their plans to live stream the eclipse from their site. He has also been a great help with working in the background on our Eclipse Expo which coming up next week.

He has served on our board for many years and currently has a run of 7 years in his current office. He is vital to the success of SLAS and will always be there to promote astronomy through SLAS, the Mid-States Region, and the Astronomical League. He is also one of our coordinators for Night Sky Network and keeps track of all of our volunteer hours for all events put on by SLAS.

He really enjoys sharing knowledge with schools and community organizations such as scouts, etc. In 1994, he coordinated the annular eclipse viewing for an elementary school when the district was not interested in organizing anything. His children have fond memories of night-time drives to observe comets and other astronomical events.

Personally, I have conversations nearly daily with him as he drives home from work. The conversations vary, but nearly always focus on SLAS, astronomy and bringing it to the public. These conversations keep me motivated to pursue good things for SLAS, Mid-States, the AL, and Night Sky Network, ie the public.

It is our pleasure to nominate Mark Jones for Amateur of the Year. It is long overdue and will be appreciated greatly should he receive this honor.

Congratulations again to Mark Jones as recipient of the Amateur of the Year for 2017 !

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.
2017: Jul 6; Aug 9 (Wed); Sep 7; Oct 5; Nov 9; Dec 7

Dark Sky Observing Dates
See you when it gets warmer!! Use SlasDialogs or Facebook to coordinate winter events!

Francis Park Events: These events are on Wednesdays the week nearest the first quarter Moon June 28, July 26, August 30, September 27, October 25

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!

2017-06-18	8:30 PM		
2017-07-16	8:00 PM	2017-08-13	8:00 PM
2017-09-17	7:00 PM	2017-10-15	6:30 PM
2017-11-12	6:00 PM	2017-12-10	5:30 PM

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

YMCA Edward Jones Star Parties (generally third Mondays)

Pattonville Observatory Public Viewing Dates

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

June

16 Fri SLAS REGULAR MEETING AT QUEENY PARK
17 Sat ECLIPSE EXPO QUEENY PARK
18 Sun SLAS Sky Orienteering
19 Mon Edward Jones YMCA
21 Wed SLCL Headquarters
23 Fri Family Picnic Under the Stars 1st Baptist Crestwood
24 Sat Firecracker Extravaganza
24 Sat Des Peres Park Great American Backyard Campout
24 Sat Grants View Library How-To_Festival
24 Sat SLAS dark sky observing
26 Mon Boone's Trail Library
28 Wed Francis Park
28 Wed Middendorf Kredell Library
29 Thur Corporate Parkway Library

July

2 Sun Stargazing at the Gateway Arch
5 Wed SLAS Board Meeting
6 Thur Machaek Library Solar Eclipse
7 Fri SLSC Telescope Viewing CANCELLED
12 Wed Oak Bend Library
12 Wed Eclipse Presentation to Senior Adults group
13 Thur Ellisville Summer Day Camp
14 Fri Ellisville Summer Camp
15 Sat Sidewalk Solar Observing
16 Sun SLAS Sky Orienteering Event
17 Mon Sachs Library Eclipse event
18 Tue Central Library SLPL Eclipse
18 Tue Eureka Hills Library Solar Program
21 Fri SLAS Regular Meeting (Wash U)
22 Sat SLAS Dark Sky Observing

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 _____

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 @ $29.95 / 1 year $_____

TOTAL ENCLOSED $_____

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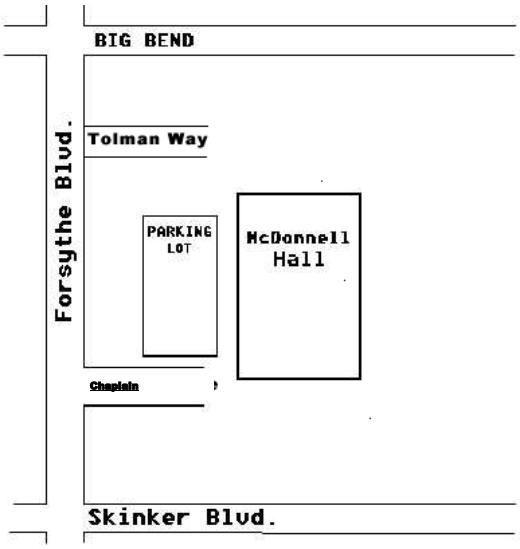
Who We Are and What We Do

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 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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