

THE EVENT HORIZON



ST. LOUIS ASTRONOMICAL SOCIETY

Devoted to the Interest and Advancement of the Science of Astronomy

VOLUME 24, Issue 9
September, 2014

Mid States Region



Global Climate Is Changing – Or Is It? And If So – Why?

by

Jack Fishman - SLU & William Hayden Smith - WU

Professor Jack Fishman of Saint Louis University and Professor William Hayden Smith of Washington University, will be featured at the September meeting of the St. Louis Astronomical Society. The meeting will begin at **7:30 PM Friday, September 19 in McDonnell Hall, Room 162, on the Washington University campus, Saint Louis, MO 63130.** McDonnell Hall is accessible from Forsyth Boulevard via Tolman Way.

There is strong, but perhaps not yet conclusive, evidence that the climate is changing. Average temperatures are rising in many regions, leading to shifts in weather patterns. Local ecologies are stressed and shifting. Sea waters are rising. While the global climate is known to have changed many times in geologic history due to natural causes, most scientists believe that the current climate changes are either triggered or accelerated by human activity. However, some scientists dispute the projected rate of climate change and the role of human activity in causing the change. Dr. Fishman will present some of the findings of climatologists that support theories of global warming and point to human activity to explain the rate of climate change. Dr. Smith will examine climate data and

dispute the global projections and the assertions that human activity is a major factor. A discussion period will follow the two presentations.

Dr. Jack Fishman is Professor and Director of the Center for Environmental Sciences at Saint Louis University. His research interests are focused on satellite studies of atmospheric composition and pollution; global pollution and crops, atmospheric chemistry, and global change due to human activity.

Dr. William H. Smith is Professor of Earth and Planetary Sciences and a Fellow of the McDonnell Center for the Space Sciences at Washington University. His research projects involve climate change studies, the development and application of remote sensing instruments to environmental problems, and the development of medical diagnostics for long-term spacecraft missions.

The format for the meeting will be as follows:

1. Dr. Fishman and Dr. Smith will each be given 30 minutes for their presentations. There will be no questions during the presentations themselves.
2. Cards will be passed out to the audience before the presentations. After both presentations are finished, those who wish to ask questions will pass their card forward and cards will be randomly drawn to select who will ask a question. The time allotted for the question period will be limited to 30 minutes.

We look forward to a lively meeting!

Upcoming meetings
October: Catarina Ubach

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President's Corner

by Jim Small

It has been an amazing month for SLAS. We are well on our way to becoming a major player in the St. Louis Region on several fronts.

First up, though, the date for the **Star-B-Q** is **THIS SATURDAY September 20**. We will be at the Alta Shelter this year and is indicated on the map on page 3. Things begin at 3 pm! We hope to see you there!

The Library Telescope program has taken off beyond our wildest dreams. The excitement and enthusiastic support from all three libraries we spoke to in the last week was fantastic. All three systems, (St. Louis County, St. Louis City and Independent (Kirkwood) were so taken with the program that they all ordered additional telescopes to place in the program. See details to the right.

I cannot thank Don Ficken enough for spearheading this effort and organizing the meetings with the libraries and ordering of the materials to make the scopes ready. It will be a fantastic opportunity for SLAS to work with the community through some new venues. Thanks to the committee (Rich Heurermann, Bill Winningham, John Newcomer and myself) for the work put into making the decisions) The PR from this project will be tremendous!

Thanks to John Lakey for agreeing to host organizational meetings for the solar eclipse team from the St. Louis area. This organizing committee will include representatives from various organizations around the area and will organize a community workshop to help area groups to prepare for the 2017 Total Solar Eclipse.

Many thanks also to Mark Jones for keeping the conversations about the eclipse going for the St. Louis area. Many discussions are in progress to make the decisions about what to do in the coming year to organize St. Louis groups for the eclipse. They will likely culminate with workshop(s) in the coming year.

We have a myriad of star parties coming up, so please check night sky network and see if you can volunteer for them. If you have not volunteered for a star party before and you would like some help, don't hesitate to contact me or anyone else whose contact information is on the back page of the newsletter for help.

We will see you all at the meeting on Friday and the Star-B-Q on Saturday at Babler State Park!

Library Telescope Program

by
Jim Small

Don Ficken, John Newcomer, Bill Winningham, Rich Heurermann, and myself have been busy since the last meeting. We discussed the approach for meeting with the libraries, pooled resources and contacts, developed agendas for meeting with the library personnel, set up meetings, ordered the YMCA version of the Library Telescope, assembled a mockup of the instruction booklet, picked up some of the accessories, applied some of the stickers and the fanny pack to the scope, and finally MET with the librarians!

MANY thanks to Don Ficken for taking the ball and running with it. His experience with corporations and so on really made the difference when it came to meeting with the library personnel. We met with St. Louis County Library on Friday of last week, St. Louis City Library Monday morning, John Lakey at noon, and Kirkwood Library Monday afternoon. It was the easiest sales job I have ever been on!

By Monday afternoon, we had not only successfully set up the donation of the 3 telescopes provided by SLAS monies, but by Tuesday, we had added a fourth library (University City) and brought the total number of telescopes requested by the libraries and the YMCA to 18! All of the libraries requested additional telescopes that they would pay for to be put into circulation. In addition, John Lakey said the Science Center would be happy to promote the program in the planetarium shows!

Needless to say, we have since been busy. Don Ficken has been working tirelessly to order all of the parts for the modifications and should have nearly all of it by next week sometime. We will then assemble a single scope to test the modifications and become familiar with them so we can get a group effort together to do the assembly of the larger group. The steering committee will be putting the team together for the assembly party. Let us know if you are interested in helping with that.

We will also get recognition in Orion Telescope's magazine for the program. We haven't set up news releases, etc, but I think there might be a joint news release set up by the libraries with us present.

This program will be a huge boost to SLAS and astronomy! If you want to be involved, there will be plenty of opportunities for participating in training and star parties for the libraries as we start this program. **Get Involved!!!**



12th Annual SLAS Star-B-Q

Saturday, September 20, 2014

Alta Picnic Shelter

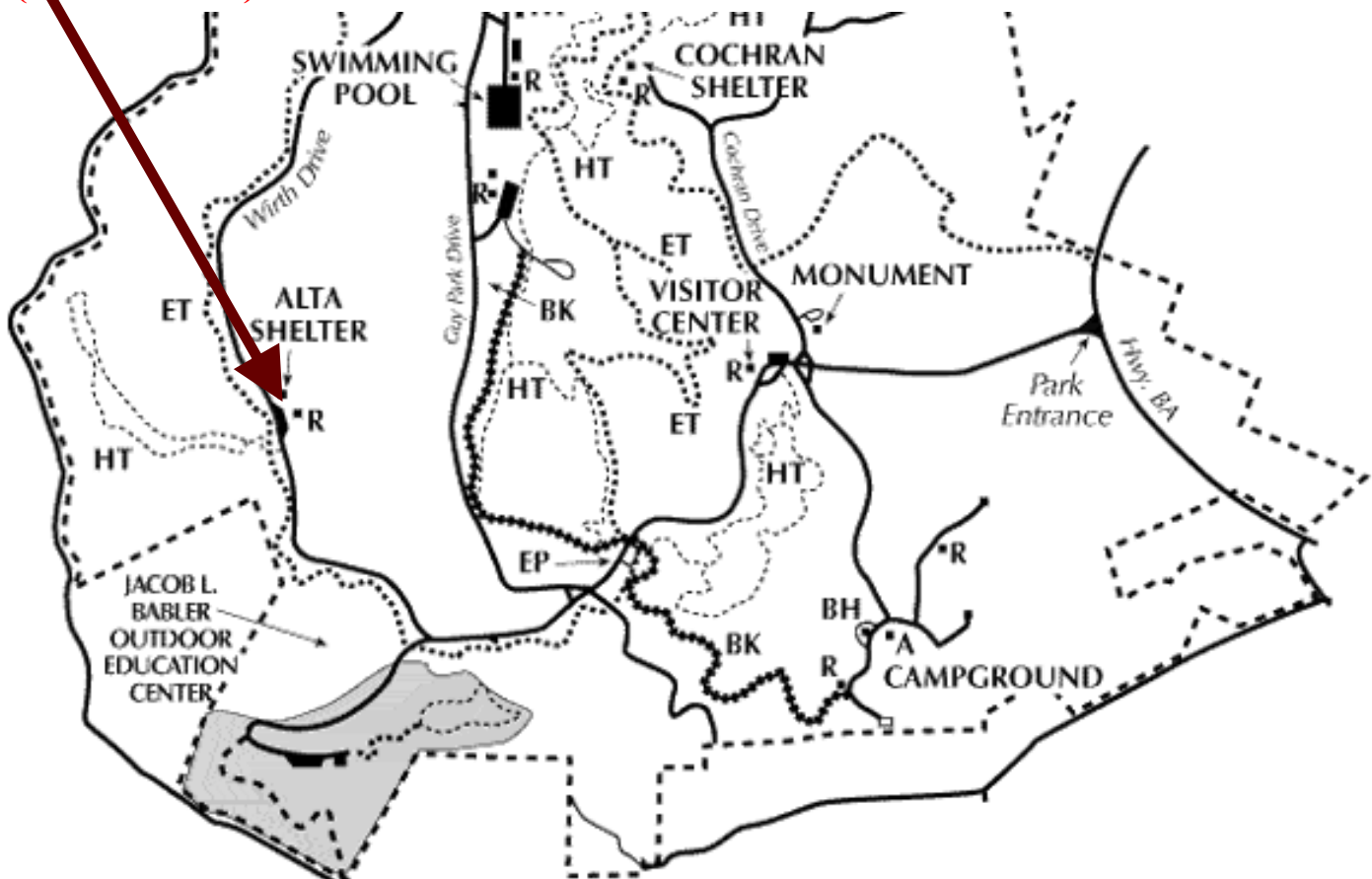
Come join fellow members of the SLAS at Babler State Park for a day of food, games, and observing. SLAS will once again provide the hamburgers and hotdogs. We ask for you to bring your favorite drinks and side dish or dessert.

Activities will include: *games, prizes, solar viewing and plenty of socializing!* Then we pack up and move to the Babler Monument area where we will observe from 8-Midnight. Don't have a telescope? Don't worry this is a great chance to see other member's equipment.

- 3pm – Picnic begins
- 4pm-6pm Food line open
- 6pm-7pm Trivia Contest (with prizes)
- 7pm-8pm- cleanup shelter
- 8pm-midnight- Observing at Monument Area

Special Note: There will be solar viewing during the day.

(Alta Shelter)



STARFLEET COMMAND MISSION UPDATES FOR SEPTEMBER 2014 EXTRA SOLAR PLANETS COUNT

| | | | |
|--|-------------|--|---------------------------------|
| The Extra Solar Planets Encyclopedia: | 1822 | www.exoplanet.eu | |
| Arecibo-The Exoplanets Catalog: | 1826 | www.phl.upr.edu/projects/habitable-exoplanets-catalog | |
| The NASA Exoplanet Archive: | 1743 | www.planetquest.jpl.nasa.gov | |
| Exoplanet Orbit Database: | 1516 | www.exoplanets.org | |
| Open Exoplanet Catalog: | 1789 | www.openexoplanetcatalogue.com | As of: 11 September 2014 |

INTERNATIONAL SPACE STATION SUPPLY FLIGHTS

| DESIGNATION | LAUNCH DATE | COMPANY/COUNTRY |
|--------------------------|--------------------|------------------------|
| CRS-4 | 12-Sept-2014 | Space-X Dragon |
| Orb CRS-3 | 21-Oct-2014 | Cygnus |
| Progress M-25M ISS-57-P | 29-Oct-2014 | Progress |
| ATV-005 Georges Lemaitre | 24 July 2014 | ESA |
| HTV-5 Kounotori 5 | 01 Feb 2015 | JAXA |
| Soyuz TMA-14M | 25 Sept 2014 | Russia |

INTERNATIONAL SPACE STATION CREWS

EXPEDITION 41: MISSION STARTED: 10 Sept 2014

| CREW MEMBERS | COUNTRY | UP/DOWN |
|---------------------------|----------------|----------------|
| Maksim Surayev (CDR) | Russia | Soyuz: TMA-13M |
| Gregory R Wiseman | USA | Soyuz: TMA-13M |
| Alexander Gerst (Germany) | ESA | Soyuz: TMA-13M |

MISSION UPDATES

New Horizons: 14 July 2015

On 25 August 2014, 25 years to the date of Voyager II's flyby of Neptune, New Horizons crossed the orbit of Neptune. It is scheduled to zoom through the Pluto system on 14 July 2015. New Horizons was launched on 14 Jan 2006 and rocketed away from Earth at 36,000 mph, making it the fastest spacecraft ever launched. The probe is now about 2.75 billion miles FROM Earth and is just 273 million miles from Pluto. On 29 August 2014, New Horizons was placed into hibernation. This deep space break will last until 06 Dec 2014, when it will then be awakened to begin its Pluto flyby phase of its mission. Mike Wall, Senior Writer, Space.com, 25 August 2014

OSIRIS-Rex: September 2016

NASA's OSIRIS-REx mission and The Planetary Society invite you to submit your name for a round-trip ride to Asteroid Benu. Your name will hitch a ride to the Asteroid, spend 500 days there, and return in the Sample Return Capsule to Earth in 2023. Plus your name will be on the spacecraft, which will remain in space long after returning the Sample Return Capsule to Earth. The mission launches in September 2016. **Messages to Benu on the OSIRIS-REx spacecraft! The last day to submit names is: 30 Sept 2014** <http://www.planetary.org/get-involved/messages/benu/>

ISS News

On 25 September 2014, Yelena Serova will be joined by, Barry E Wilmore (USA) and Aleksandr Samokutyayev (Russia) as a member of Expedition 41. They will be launched on the Soyuz TMA-14M. She follows: Valentina Tereshkova (Vostok 6, 16 June 1963), Svetlana Savitskaya (Soyuz T-7, 19 Aug 1982 Salyut 7 SS) and Yelena Kondakova (TM-2004, Oct 1994 and spent 5 months on Mir and STS-84, Atlantis, 15 May 1997), as the fourth Soviet/Russian woman to journey into Space. Expedition 40 departed the ISS on, 10 Sept 2014, and return to Earth three and half hours later in the steppes of Kazakhstan.

**St. Louis Astronomical Society
Devoted to the Interest and
Advancement of the Science of Astronomy
Executive Board Meeting - July 17, 2014**

1. Opening Activities Call to Order 7:04, attendance: Jim Small, Paul Baldwin, Bill Winningham, Grant Martin, Tom Nickelson, Brad Waller. June minutes were amended and approved.

2. External Business

SLSC no information about First Friday for August 1st.

Next board meeting: 8/7, Board meeting dates for the year are confirmed from the YMCA: 9/11, 10/9, 11/6, 12/11.

3. Director Reports: If needed

President – Jim S ALCON 2014 – Success 2015 ACLCON Las Cruces, 2016 ALCON DC, 2017 ALCON Casper, WY

Eclipse Conference is August 21/22 Columbia, MO Eclipse Glasses from AL

Vice President –Paul Baldwin: July: Rich Heuermann – Life and Death of Stars, Types of Stars, Spectroscopy **August:** Logan Brown – UMSL -Exoplanets **September:** Dr Jack Fishman–SLU and Dr. William Smith-WU: Solar impact on earth's weather-two opposing viewpoints

Speakers... Paul designed a plaque for Rich Heuermann. Discussion about speaker gifts. Discussion about upcoming speakers.

Astro 101: Topic

Secretary – Mark J minutes sent

Treasurer/ALCor – preliminary report, reimbursement procedures discussed.

MSRAL 2014 final report Over \$2100 profit

Hospitality – Grant M no report submitted Crowd after the meeting... refreshments are sufficient

Board member at large reports

Larry Campbell absent

Tom Nickelson: No report

Brad Waller: no report July 20 - 45th anniversary Moon Landing 21:56CDT

4. Committee Reports: If needed

Membership – Report submitted

Merchandise – no report -

Telescope Making – no report submitted

Librarian – No changes

Newsletter – No report

Website – No report

Night Sky Network – No report.

SLASdialogs – No report submitted

Dark Site – July 26, Aug 30, Sep 27, Oct 25

Loaner Equipment – Mark returned the ETX 90, Cook purchased a Rigel Finder for ETX-125 loaner scope and was reimbursed.

Publicity – release sent

Observing Programs – Four new observing programs from AL, Radio Astronomy, Adv. Binocular Doubles, Bright Nebulae, Two In the View

Star Parties: Details for the next month's confirmed events below.

PTV Aug 1, Francis Park Aug 6, Movie in the Park Aug 7, Arch Aug 8, Edward Jones Aug 14

5. Old Business

6. New Business Any new business to bring before the board.

- Library Telescope program

We purchase three set-ups (Orion StarBlast 4.5 for \$200, Celestron 8-24 zoom eyepiece for \$60, and \$40 for miscellaneous) for Library Telescopes per the Library Telescope Program set up in New Hampshire to be placed in St. Louis County Library, one in St. Louis City Library, and a 3rd library to be determined. Total purchase will be approximately \$900. Proposed by Brad Waller, seconded by Tom Nickelson. Unanimous.

- Social media for SLAS Tom Nickelson proposed setting up SLAS facebook and twitter accounts. Seconded by Paul Baldwin Almost unanimous

Brad Waller proposed to sponsor Mark Jones or another representative for SLAS for the Eclipse conference on August 21st for the registration fee of \$150. Said representative will report on the proceedings to the club. Seconded by Tom Nickelson.

7. Closing Activities Bill Winningham, Grant Martin seconded....

MISSION UPDATES (con't.)

Resupply Flights to ISS

*The Cygnus Mission, CRS-2, SS Janice Ross, completed its mission on 17 August 2014 when it re-entered the atmosphere.

*Progress M-23M completed its mission when it was deorbited on, 01 Aug 2014.

*ATV-005, Georges Lemaitre, docked with the ISS on 12 August 2014. On, 25 Jan 2015, it will undock and re-enter the atmosphere. ***Check the ISS Supply Flight Section for future resupply missions.**

Mars News

*USA: MAVEN is expected to enter into Mars orbit on 21 Sept 2014. It is expected to last at least one Earth year, but with careful use of fuel, it could last a decade... long enough for controllers to watch the upper atmosphere change through almost an entire 11-year cycle of solar activity. **MAVEN: Mars Atmosphere and Volatile EvolutionN.** Launched: 18-Nov-2013

*India: MOM is expected to enter into Mars orbit on 24 Sept 2014. It is expected to last six to 10 months near Mars.

**St. Louis Astronomical Society
Devoted to the Interest and
Advancement of the Science of Astronomy
Executive Board Meeting - August 10, 2014**

1. Opening Activities

Attendees: Jim Small, Mark Jones, Bill Winningham, Brad Waller
Meeting called to order 7:10pm. No quorum

2. External Business SLSC September First Friday theme is Dr. Who

Next board meeting: 9/11, Board meeting dates for the year are confirmed from the YMCA: 10/9, 11/6, 12/11.

3. Director Reports: If needed

President - Jim Small

Eclipse Conference is August 21/22 Columbia, MO

Library Telescope Program committee: Don Ficken, chair of 5 person steering committee, other members include Jim Small, Bill Winningham, Rich Heuermann and a TBA by Don.

Vice President –Paul Baldwin: August: Logan Brown – UMSL - Exoplanets **September:** Dr Jack Fishman–SLU and Dr. William Smith -WU: Solar impact on earth’s weather-two opposing viewpoints

Astro 101: Topic. Jim will contact Michael Malolepszy about doing a Rosetta Mission Update, or Jim Small will give a travelog of his trip to Wyoming

Secretary – Mark J 2017 Eclipse Workshop has the following members planning to attend: Mark Jones, Jim Small, John Beury, Jerry Loethen, Don Ficken, Grant Martin Ann and Jim Trull

Thank you letter from Dr Friedlander from MSRAL2014

Star-B-Q scheduled for Sept 20th at Babler State Park, Alta Shelter. John Beury has volunteered to run Trivia contest again this year. We are looking for door prizes. Like last year SLAS will supply meat, I am thinking of cooking hamburgers and hot dogs and I am looking for volunteers to help cook

SLAS members have been invited to Grupe’s farm for Dark Sky observing on Sep 26 near Hamburg IL

Council Bluffs Dark Sky Observing planned for Aug 22-23

Observing Chair – I have awards to submit for Grant Martin and Jerry Loethen

Super Moon is tonight

Treasurer/ALCor –

MSRAL 2014 final report - Check for Banquet was not cashed by

Knight Center, Cook cancelled check and issued new check. Still working on getting second check for banquet payment cleared so books can be closed.

Charges to SLAS debit card was done by Sky&Telescope (2x\$37.95). They will reimburse.

Hospitality – Grant M no report submitted

Board member at large reports

Larry Campbell- no report

Tom Nickelson- no report

Brad Waller- Coffee mugs for speakers, Brad to discuss with Paul Baldwin who is the Speaker Chairman. Talk to Greg Gains about new location for loaner scopes

4. Committee Reports: If needed

Membership – Report submitted

Merchandise – no report -

Telescope Making – no report submitted

Librarian – No changes

Newsletter – Newsletter will be out by Monday.

Website – Site is averaging about >10,000 hits a month, number of unique site >1000 month

Night Sky Network – Due to our Outreach activities SLAS qualified for and won and S&T Mars Globe for our club!

SLASdialogs – no report submitted

Dark Site – Aug 30, Sep 27, Oct 25

Loaner Equipment –

Publicity – Press release sent by Rich Heuermann

Observing Programs – Two awards to submit

Star Parties: Details for the next month's confirmed events below.

Edward Jones Aug 14

5. Old Business -

The following old business items will be presented to the general membership at the August meeting

Library Telescope program

Eclipse Workshop Reimbursement

6. New Business Any new business to bring before the board.

How to Volunteer for Star Parties!

If you've never volunteered for a star party, you are in for a real treat! You do not need any experience, you don't even need a telescope or binoculars. If you log into Night Sky Network, on the right side, you will see a link for "Sharing the Universe" videos. If you don't know how to log into NSN, just click this link: <http://www.astrosociety.org/SharingTheUniverse/index.html> and it will take you to the page with the videos. Click on the [Getting Started With Outreach](#) link. On the page you will see a link for a video and a link for tips. The tips are great! The video is also well done and will get you inspired to work with the public! If you like the first video, you will certainly enjoy the rest of the videos for Sharing the Universe! Then, just RSVP for any star party and let's get started! Other SLAS members will be there to help you get going! We look forward to all the joy you will have sharing the universe with the public!

| St. Louis Astronomical Society Profit & Loss Budget vs. Actual January through August 2014 | | | |
|--|-----------------|-------------------|-------------------|
| | Jan - Aug 14 | Prorated Budget | \$ Over Budget |
| Ordinary Income/Expense | | | |
| Income | | | |
| Magazine Subscription | 666.35 | 3,241.30 | (2,574.95) |
| Membership Dues | 2,240.00 | 2,300.00 | (60.00) |
| Total Income | 2,906.35 | 5,541.30 | (2,634.95) |
| Cost of Goods Sold | | | |
| Magazine Subscriptions* | 633.40 | 3,241.30 | (2,607.90) |
| Total COGS | 633.40 | 3,241.30 | (2,607.90) |
| Gross Profit | 2,272.95 | 2,300.00 | (27.05) |
| Expense | | | |
| 1-Programs & Events** | 326.72 | 2,441.66 | (2,114.94) |
| 2-Newsletter | 347.86 | 190.00 | 157.86 |
| 3-Library expense | 88.62 | 150.00 | (61.38) |
| 4-Astronomical League Dues | 650.00 | 660.00 | (10.00) |
| 5-Loaner Scopes | 155.25 | 150.00 | 5.25 |
| 6-Brochures | 43.69 | 166.66 | (122.97) |
| 7-Insurance | 380.00 | 380.00 | |
| 8-Website | 113.88 | 108.00 | 5.88 |
| 9-Administrative Expenses | 195.97 | 304.00 | (108.03) |
| Total Expense | 2,301.99 | 4,550.32 | (2,248.33) |
| Net Ordinary Income | (29.04) | (2,250.32) | 2,221.28 |
| Other Income/Expense | | | |
| Other Income | | | |
| Donations | 231.33 | | 231.33 |
| Interest Income | 28.57 | 66.00 | (37.43) |
| Non-Operating Income*** | 1,032.66 | | 1,032.66 |
| Total Other Income | 1,292.56 | 66.00 | 1,226.56 |
| Other Expense | | | |
| Non-operating Expense | 92.93 | | 92.93 |
| Total Other Expense | 92.93 | | 92.93 |
| Net Other Income | 1,199.63 | 66.00 | 1,133.63 |
| Net Income | 1,170.59 | (2,184.32) | 3,354.91 |

* One Sky and Telescope subscription fulfilled after the end of the period
 ** Reflects member approved additions of \$150 for Eclipse Conference fees and \$1,000 for the Library Scope Program (funds available through 2015)
 *** Residual net income from MSRAL 2014

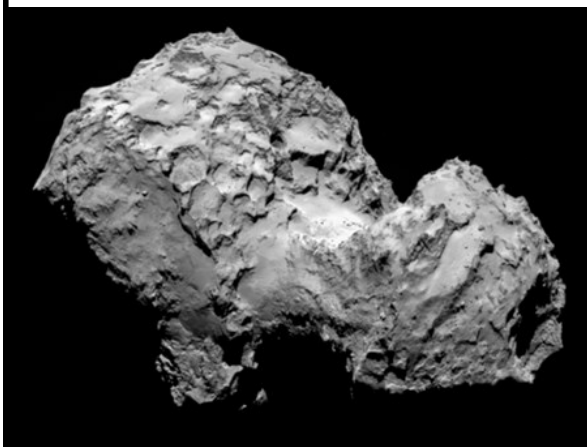
| St. Louis Astronomical Society Balance Sheet As of July 31, 2014 | | |
|--|------------------|------------------|
| | Dec 31, 13 | Aug 31, 14 |
| ASSETS | | |
| Current Assets | | |
| Checking/Savings | | |
| Checking - First Bank | 3,263.28 | 6,476.39 |
| Deposit, Certificate of | 20,027.97 | 20,055.43 |
| Merchandise Change Fund | 20.00 | 20.00 |
| PayPal | 24.15 | 0.00 |
| Savings - First Bank | 3,357.60 | 3,358.71 |
| YMCA Trout Lodge Escrow | 877.87 | 877.87 |
| Total Checking/Savings | 27,570.87 | 30,788.40 |
| Accounts Receivable | | |
| Accounts Receivable | 0.00 | 5.00 |
| Total Accounts Receivable | 0.00 | 5.00 |
| Other Current Assets | | |
| Inventory Asset | 1,707.15 | 1,614.22 |
| Investment in Mid-States 2014 | 2,000.00 | 0.00 |
| Total Other Current Assets | 3,707.15 | 1,614.22 |
| Total Current Assets | 31,278.02 | 32,407.62 |
| Fixed Assets | | |
| Accum Depr - Office Equip | (216.65) | (216.65) |
| Office Equipment | 216.65 | 216.65 |
| Total Fixed Assets | 0.00 | 0.00 |
| TOTAL ASSETS | 31,278.02 | 32,407.62 |
| LIABILITIES & EQUITY | | |
| Liabilities | | |
| Current Liabilities | | |
| Accounts Payable | | |
| Accounts Payable | 40.99 | 0.00 |
| Total Accounts Payable | 40.99 | 0.00 |
| Total Current Liabilities | 40.99 | 0.00 |
| Total Liabilities | 40.99 | 0.00 |
| Equity | | |
| Opening Bal Equity | 8,137.66 | 8,137.66 |
| Retained Earnings | 19,214.15 | 23,099.37 |
| Net Income | 3,885.22 | 1,170.59 |
| Total Equity | 31,237.03 | 32,407.62 |
| TOTAL LIABILITIES & EQUITY | 31,278.02 | 32,407.62 |

MISSION UPDATES (CON'T)

Rosetta

*06 August 2014: Rosetta arrived at a distance of 100 km from Comet 67P/Churyumov-Gerasimenko, after a decade-long journey chasing its target, ESA's Rosetta has today become the first spacecraft to rendezvous with a comet. After landing, Rosetta will continue to accompany the comet until its closest approach to the Sun in August 2015 and beyond, watching its behavior from close quarters to give us a unique insight and real-time experience of how a comet works as it hurtles around the Sun."

*14 September, the five candidate sites will have been assessed and ranked, leading to the selection of a primary landing site and a backup. The landing itself is currently scheduled for 11 November. The announcement of the primary landing site for Rosetta's lander Philae, will be made the following day.



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*
10/9/2014
11/6/2014
12/11/2014

Dark Sky Observing Dates

Sep 27
Oct 25

Francis Park Events: These events are on **Wednesdays** the week nearest the first quarter Moon

October 1 (7 day old Moon) (1st Wed.)
October 29 (6 day old Moon) (5th Wed.)

SLSC Public Telescope Viewing Events: These events are held the first Friday of the month-

Planetarium shows start at 7pm
October 3
November 7
December 5

YMCA Edward Jones Star Parties



Which is God's Favorite Planet ????
(BW)

For you...John Beaury :-) (bw)

The Argyle Sweater 03
Sept 2014

SLAS EVENTS

September

19 Fri SLAS Regular Meeting
20 Sat SLAS Star-B-Q
26 Fri Halls Ferry Elementary
27 Sat SLAS Dark Sky Observing
29 Mon Babler Center

October

1 Wed Francis Park
2 Thurs Manchester Park
3 Fri Public Telescope Viewing SLSC
4 Sat Stargazing at the Arch
7 Tue Edward Jones YMCA
9 Thurs SLAS Board Meeting
13 Mon Babler Center
17 Fri Cub Scouts Babler
17 Fri SLAS Regular Meeting
18 Sat Night Skies Over Babler
25 Sat SLAS Dark Sky Observing
29 Wed Francis Park

November

1 Sat Faith Academy Larson Park
6 Thurs SLAS Board Meeting
7 Fri Public Telescope Viewing SLSC
21 Fri SLAS Regular Meeting



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. For more information about events, such as Moon phase, clear sky clock, weather report or a map of what's up, see the calendar online.

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 @ \$34.00 / 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 | Paul Baldwin | 314-596-6738 |
| 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 | Grant Martin | |
| hospitality at slasonline.org | | |
| Board Members at Large: | | |
| | Tom Nickelson | |
| board17 at slasonline.org | | |
| | Larry Campbell | 636-244-2867 |
| board15 at slasonline.org | | |
| | Bradley Waller | 314-481-7250 |
| board16 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

| | | |
|------------------------------------|----------------------------------|--------------|
| Membership | Don Ficken | 636-225-0269 |
| membership at slasonline.org | | |
| Publicity | Rich Heuermann | 314-962-9231 |
| publicity at slasonline.org | | |
| 'SLASdialogs' Moderator | Mark Jones, Rhonda Whelan | |
| dialogsmoderator at yahoo.com | | |
| Webmaster | Jim Small | 314-909-7211 |
| webmaster at slasonline.org | | |
| Newsletter Editor | Jim Small | 314-909-7211 |
| newsletter at slasonline.org | | |
| Loaner Equipment | Greg Gaines | 314-277-3082 |
| loaner at slasonline.org | | |
| Merchandise | Grant Martin | |
| merchandise 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 | | |
| Star Party Coordinator | Mike Malolepszy | 314-781-4701 |
| starparty at slasonline.org | | |
| Dark Site Coordinator | Mark Jones | 636-394-2342 |
| darksite at slasonline.org | | |
| Observing Programs | Mark Jones | 636-394-2342 |
| observing at slasonline.org | | |
| Telescope Making | Bill Davis, Jim Melka | 314-469-3061 |
| telescope at slasonline.org | | |

Devoted to the Interest and Advancement of the Science of Astronomy

ST. LOUIS ASTRONOMICAL SOCIETY

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

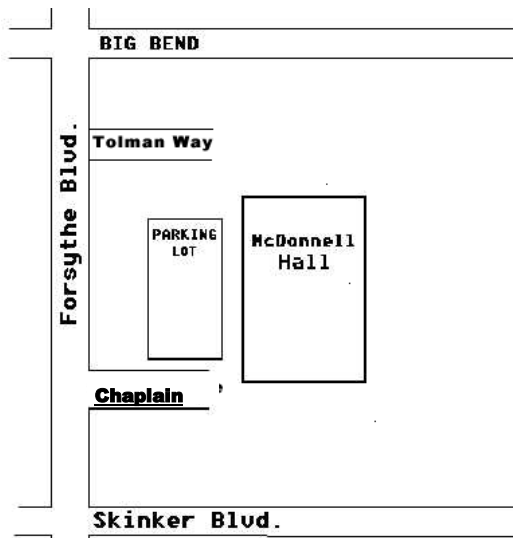


Who We Are and What We Do

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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