

THE EVENT HORIZON



ST. LOUIS ASTRONOMICAL SOCIETY

Devoted to the Interest and Advancement of the Science of Astronomy

VOLUME 26, Issue 10
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Splitting Hairs Over the Distance to the Nearest Star *by* **Dr. Kater Murch** **Washington University**

Dr. Kater Murch of Washington University will be featured at the October meeting of the St. Louis Astronomical Society. The meeting will begin at 7:30 PM Friday, October 21, in McDonnell Hall, Room 162, on the Washington University campus, Saint Louis, MO 63130.

On September 14, 2015, ripples in the fabric of the universe – gravitational waves – were detected by the new LIGO (Laser Interferometer Gravitational-Wave Observatory) facility. The waves were caused by the merger of two black holes far away in space, more than 1.3 billion years ago. That violent event stretched and compressed space by less than the width of an atom. The measurement of that small of a ripple challenges our most advanced technology. It also pushes the limits allowed by quantum mechanics, the branch of physics involved with matter and energy at very small scales. Dr. Murch will talk about the limits on the precision of measurements imposed by

quantum mechanics. He will explain how scientists using LIGO and other instruments are learning to view the universe through gravitational waves rather than light waves.

Dr. Kater Murch is an Assistant Professor in the Department of Physics at Washington University. He received his Doctoral degree from the University of California in 2008 and joined the Washington University faculty in 2013. His research interests involve superconducting electrical circuits, quantum computers, and experiments on the limits of quantum measurement

Upcoming Meetings:

November - Maggie Ducksworth - Mars One
December - William McKinnon, PhD - Pluto - Washington University
January - Peter Plavchan, PhD - The Golden Age of Exoplanet Discovery - Missouri State University
February - Pamela Gay, PhD - Super Secret Squirrel Stuff - Southern Illinois University - Edwardsville
March - Christine Floss, PhD
April - Kevin Evans, PhD - Weaubleau Impact Structure - Missouri State University
July - Ryan Clegg-Watkins, PhD - Exploring the Moon from Orbit - Washington University

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A RAFFLE FOR **Dr Neil deGrasse Tyson** **Peabody Opera House** **18 May 2017 @ 7:30pm**



For SLAS members only
The raffle is for TWO tickets to this event.
The drawing will be held at the April SLAS monthly meeting. You do not need to be in attendance to win.

Contact person:
Bradley R Waller
SLAS VP
bwaller@stlouisco.com
314-481-7250

1 ticket: \$2.00
Buy 5 tickets for \$10.00 and get a 6th one!!!

Presidents Corner—Jim Small

It's budget time for SLAS. We will have a budget meeting for those interested Sunday evening at 4 pm at Young's. It's still a busy time for star parties, so check the calendar for Night Sky Network and sign up! I would love to be able to order more than 35 NSN pins for folks who have 5 events or more this year. See where you stand in the article below!

We are having the first workshop for teachers for the eclipse for next year this Saturday. It is the first of three workshops cosponsored by the Institute for School Partnership in Washington University.

Brad Waller (alias The Borg) has the speaker situation under control and has them booked well into 2017. He also has a "Meet and Eat" scheduled with Dr. Pamela Gay after her talk in February. We were out late the last time we did this! We have a list of potential speakers for SLAS that includes Erika Gibb, PhD, Bruce

Wilking, PhD, Brad Jolliff, PhD, Tom Bermatowicz, Henric Krawczynski, PhD, Kun Wang, PhD, Jim Kaler, Linda Godwin, Angela Speck, PhD and several others.

If you have suggestions for speakers, let Brad know in person or at vicepresident@slasonline.org We are always looking for fresh ideas for speakers.

If you have suggestions for astro 101, that would be terrific as well!

Lots of stuff for sale in this issue. If you have an item for sale, The Event Horizon will be happy to help you out with an ad.

We are always looking for articles, so please feel free to write one and maybe include a photo or two. We would love to hear about current events, equipment reviews, or the last outreach event! Send to newsletter@slasonline.org Have a terrific month!

Outreach Volunteers Jan-Oct 4, 2016

Through early August, SLAS members have logged 1347 hours for 127 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. There is plenty of time to get to 5 events!

Thank you to all our volunteers!

Donald Ficken	80 events; 200.8 hours
Cook Feldman	44 events; 164.6 hours
Larry Campbell	30 events; 88.5 hours
Rich Heuermann	30 events; 98.5 hours
John Beaury	27 events; 107 hours
Mark Jones	23 events; 79 hours
Frank Mack	18 events; 48.8 hours
James Small	17 events; 52 hours
Rick Menendez	15 events; 46.8 hours
Sharon Bertram	13 events; 42.5 hours
Richard Fefferman	10 events; 24.5 hours
Richard Jennings	9 events; 27.5 hours
Bill Biermann	7 events; 16.8 hours
Jim Trull	6 events; 19.5 hours
William Neubert	6 events; 22.8 hours
Bill Breeden	5 events; 16 hours
Robert Drzymala	5 events; 19 hours
William Winningham	4 events; 13 hours
Ann Trull	3 events; 9 hours
Doug Blum	3 events; 7.5 hours
Edward Frey	3 events; 14.5 hours

Gregory Rigelman	3 events; 11.5 hours
Jeffrey Strauss	3 events; 10.5 hours
Michelle Birch	3 events; 18 hours
Rita Breeden	3 events; 10 hours
Wayne Clark	3 events; 14 hours
Bradley Waller	2 events; 7 hours
Dale Engelbrecht	2 events; 7.5 hours
Donald Snyder	2 events; 4.3 hours
Gaylene Engelbrecht	2 events; 7.5 hours
Gregg Ruppel	2 events; 9 hours
Gregory Gaines	2 events; 9 hours
Lynn Fee	2 events; 9.5 hours
Raymond Mueller	2 events; 6 hours
Robert Beebe	2 events; 10.5 hours
Thomas Schloemann	2 events; 12.5 hours
Alan Sapia	1 events; 7 hours
Benjamin Winningham	1 events; 2.5 hours
Brent Buch	1 events; 4.5 hours
Brian Mills	1 events; 6 hours
Cathy Hooper	1 events; 6 hours
Gary Holt	1 events; 7 hours
Gerald Hutchins	1 events; 7 hours
James Griffith	1 events; 2.5 hours
JD Henson	1 events; 2.5 hours
Joseph Schober	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
Nancy Clark	1 events; 6 hours
Randy Gettman	1 events; 1.5 hours
Renee Mettle	1 events; 7 hours
Roy Lieberman	1 events; 0 hours

SLAS Presentation Feedback

Greetings again SLAS Collective,

The Borg has been busy typing away articles for the Newsletter. We would like some Feedback from the Collective on your opinions of what you thought of these past Presentations. This will help us on how the Topics were received and how to improve for the future.

Please send your Feedback to: bwaller@stlouisco.com
Thank-you for your time.

20-May-2016 Heather Knutson, PhD Cal-Tech
Extra Solar Planets "Skype Event"

17-Jun-2016 Mike Roberts Meteorology

15-Jul-2016 Jane Rix Sketching the Night Sky

19-Aug-2016 John Wharton SLSC
Eclipse of 2017 One Year Out

16-Sep-2016 Gary Gackstatter StLCC-Meramec
Chaco Canyon:
The Stones and Stars of Ancient American Astronomers

21-Oct-2016 Kater Murch, PhD Wash U How LIGO pushes
the limits of quantum measurement detect gravity.



From the Central Library branch for St. Louis Public Library

Above: Mark Jones and Larry Campbell explain how the library telescope works

Right: lining up the telescope at the Moon

Left: Frank Mack explains the library telescope program

Below: Don Ficken talking about the upcoming Total Solar Eclipse



SLAS Classifieds

For Sale: Telescope one

Meade 5" ED Apochromat f9 refractor with cradle and 8x50 finder
Meade LXD 650 HD Tripod and computer controlled mount
Meade 2" diagonal, Meade Super Wide Angle 40mm eyepiece, Meade 9mm plossl with reticle, Meade 15mm and 26mm plossl eyepieces, Orion 2" 2x Barlow, Sky software, New 7.17" Solar Filter, Orion red flashlight, all manuals and original boxes, Case for hand paddle and other parts. Selling for original owner Mike Sanders formerly of SLAS. \$2250 for everything. Will sell items separately. Call Jim Small at 314-307-0692 for inquiries.



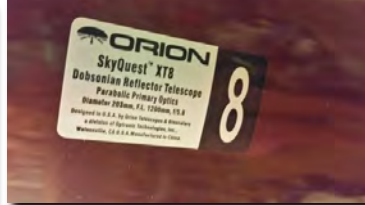
For Sale: Telescope two

Celestron Orange Tube C8 post 1980. Includes OTA, fork mount, trunk for OTA, cases for accessories, 6x30 finder, multiple diagonals, barlow, several eyepieces, tripod. Asking \$550
Contact Jim Small for info at 314-307-0692



For Sale: Two Telescopes

1. Like New Orion 90mm tabletop reflector with EZ finder II. \$125 or best offer
2. Orion Sky Quest XT8 with protective cover. Minimal Use. \$350 or best offer. Contact for both is Susan at Deafservicesllc@gmail.com



For Sale:



-Celestron heavy duty tripod and wedge. Perfect for the C8 on the previous page. Fork mount available for C8 if needed. Tripod \$250

-Linhoff professional super heavy duty tripod. Great for heavy duty binos! \$750 (\$3300 new)

-Celestron Astromaster 114 OTA only. Includes Vixen mount plate. \$75

-Nikon D700 body. Fab camera, (FX) sensor Uses all Nikon lenses \$800

-Nikon D200 camera with VR 18-200mm (35-300mm equiv) DX camera \$425

Contact Jim Small at 314-307-0692



SLAS Executive Board Meeting Minutes for September 1, 2016

1. Opening Activities:

Attendees: Tom Nickelson, Jim Small, Bill Winningham, Rich Heuermann, Bradley Waller, Mark Jones

Meeting opened 7:10pm

August meeting minutes reviewed and approved with change, motion by Rich H. second by Tom N.

2. External Business

Next board meeting: Oct 6, Nov. 10, Dec 7 (Wed)

3. Director Reports:

President – Jim Small

Report from ALCON 2016:

Was an expensive convention and will probably take a financial loss. Meeting rooms ended up costing \$11,000 more than planned. Jim Small and Brent Buch attended this year.

Library Telescope program was promoted at ALCON and NOVAC meetings. Articles requested for Sky & Telescope and Reflector

Vice President –Bradley R. Waller

Speaker lineup:

September: Gary Gackstatter SLCCC – Archeoastronomy

October: Dr. Kater Murch, Wash U. – LIGO

December – William McKinnion, Wash U. on Pluto;

Feb 2017: Pamela Gay, SIU-E – Secret Squirrel;

April 2017: Kevin Evans, MSU – Weaubleau Impact Structure;

Astro 101 – Sept: Aldebaran Occultation videos by SLAS members; Oct: Brad W. presenting a Starfleet Updates on current space missions; November: Rich Heuermann on “Types of Stars - 'Regular Stars”

Other possible speakers: Peter Pavchan, Missouri State, Jim Kaler from U of Illinois, Angela Speck and Linda Godwin, MIZZOU

Brad sent speaker mugs for Caltech Dr. Brown and Knutson; and Salt Lake City (SLAS) members Joan Carmen and Mike Clements

Membership initiatives – Equinox Door Prize for September will be moved to October

Secretary – Mark Jones: No report

Treasurer/ALCor – Bill Winningham:

Reviewed the 2017 budget process and schedule

First budget meeting planned for Sep 18 at 6pm

Bill W. to send out narrative and spreadsheet

Will send out budget report including LTP transactions

Hospitality – Larry Campbell: No report

Board member at large reports

Tom Nickelson: (2017)

Recommendation to get new members. Give discount to Public who check out LTP and library would issue discount for SLAS membership

Brent Buch (2018) No report

Rich Heuermann (2019)

Parking at Wash U. Parking services is not willing to grant parking waiver so far. Rich is working thru channels. Need to park in yellow zones or parking meter zone. Notice to be published in newsletter.

4. Committee Reports: If needed

Library Telescope Program:

Membership – see Don’s report submitted before the meeting

156 members YTD through August down from 171 at beginning of 2016. Don asks that each Board Member come up with a couple ideas on how to improve member retention. Board discussed several ideas, including improving communication with members by creating Twitter account and possibly a Facebook page

Merchandise – Infini-tees shirts for sale - \$20, Mugs \$7 (8 mug sold so far this year)

Sold 8 mugs \$56

Librarian – Jim S. will order 2017 RASC Handbook for library and members

Newsletter – Please send articles in ready to go format! Particularly for outreach events

Website – www.slasonline.org/joomla

Night Sky Network – In the process of testing new website, contacts will be able to add themselves for contact list!

Publicity – Press release for September speaker will go out this week

Observing Programs –Star Parties:

Astral Valley telescope viewing planned for Saturday Sept 3rd and Sunday Sept 4th. Paddle – Sioux Passage Park canceled for Sep 26th, but will be held on 27th

5. Old Business – None

6. New Business -

Motion by Jim S. seconded by Tom N. Motion – I move that SLAS look into and create a Twitter account to Publicize SLAS events and astronomical items of interest to members and the public. Motion passed

7. Closing Activities

Motion by Brad W. to adjourn seconded by Rich H. Meeting adjourned 9:40pm

6:55 AM
10/06/16
Accrual Basis

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

	<u>Jan - Sep 16</u>	<u>Budget</u>	<u>\$ Over Budget</u>
Ordinary Income/Expense			
Income			
Total Magazine Subscription	1,062.98	1,297.85	(234.87)
Membership Dues	2,565.00	2,820.00	(255.00)
Total Merchandise Sales	126.00	0.00	126.00
Total Income	<u>3,753.98</u>	<u>4,117.85</u>	<u>(363.87)</u>
Total COGS	<u>905.15</u>	<u>1,342.85</u>	<u>(437.70)</u>
Gross Profit	<u>2,848.83</u>	<u>2,775.00</u>	<u>73.83</u>
Expense			
1-Programs & Events	832.38	1,470.01	(637.63)
2-Newsletter	134.00	150.01	(16.01)
3-Library expense		74.99	(74.99)
4-Astronomical League Dues	700.00	695.00	5.00
5-Loaner Scopes		37.50	(37.50)
7-Insurance	380.00	380.00	
8-Website	155.40	150.00	5.40
9-Administrative Expenses	408.08	1,077.50	(668.42)
Total Expense	<u>2,610.86</u>	<u>4,035.01</u>	<u>(1,424.15)</u>
Net Ordinary Income	<u>237.97</u>	<u>(1,260.01)</u>	<u>1,497.98</u>
Other Income/Expense			
Other Income			
Total Donations	908.05	0.00	908.05
Eclipse Escrow Receipts	3,841.00	0.00	3,841.00
Interest Income	34.94	75.00	(40.06)
LTP Receipts	21,457.00	0.00	21,457.00
Non-Operating Income ^{1,2}	458.98	0.00	458.98
Proceeds from Lens Sales	13,234.08	0.00	13,234.08
Total Other Income	<u>39,934.05</u>	<u>75.00</u>	<u>39,859.05</u>
Other Expense			
Astro Mag Award Disbursements	472.78	0.00	472.78
Eclipse Escrow Disbursements	1,853.50	0.00	1,853.50
Eclipse Escrow Funding	800.00	800.00	0.00
LTP Disbursements	20,989.59	0.00	20,989.59
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>25,154.85</u>	<u>1,800.00</u>	<u>23,354.85</u>
Net Other Income	<u>14,779.20</u>	<u>(1,725.00)</u>	<u>16,504.20</u>
Net Income	<u>15,017.17</u>	<u>(2,985.01)</u>	<u>18,002.18</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 August 31, 2016**

	<u>Dec 31, 15</u>	<u>Aug 31, 16</u>
ASSETS		
Current Assets		
Checking/Savings		
Astronomy Magazine Award**	465.72	0.00
Checking - First Bank	2,940.49	2,991.70
Deposit, Certificate of	20,108.23	20,138.38
Library Telescope Escrow*	444.55	227.77
Merchandise Change Fund	20.00	20.00
PayPal	82.51	179.23
Savings - First Bank	5,361.90	18,800.03
SLAS Eclipse Conference Escrow***	539.12	3,672.32
YMCA Trout Lodge Escrow	542.87	542.87
Total Checking/Savings	<u>30,505.39</u>	<u>46,372.28</u>
Other Current Assets		
Inventory Asset	1,410.53	1,473.03
Investment in Mid-States 2016	1,000.00	0.00
Undeposited Funds	55.00	58.00
Total Other Current Assets	<u>2,465.53</u>	<u>1,529.03</u>
Total Current Assets	<u>32,970.92</u>	<u>47,901.31</u>
Fixed Assets		
Accum Depr - Office Equip	(216.65)	(216.65)
Office Equipment	216.65	216.65
Total Fixed Assets	<u>0.00</u>	<u>0.00</u>
TOTAL ASSETS	<u>32,970.92</u>	<u>47,901.31</u>
LIABILITIES & EQUITY		
Equity		
Opening Bal Equity	8,137.66	8,137.66
Retained Earnings	24,464.84	24,833.28
Net Income	368.42	14,930.39
Total Equity	<u>32,970.92</u>	<u>47,901.31</u>
TOTAL LIABILITIES & EQUITY	<u>32,970.92</u>	<u>47,901.31</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!

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.
Nov. 10, Dec 7

Dark Sky Observing Dates
11/5/2016.

Francis Park Events: These events are on Thursdays the week nearest the first quarter Moon
See you in the Spring!

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

Planetarium shows start at 7pm
11/4/2016, 12/2/2016

YMCA Edward Jones Star Parties (generally third Mondays)

10/17/2016,

Pattonville Observatory Public Viewing Dates
10/20/2016, 11/4/2016, 11/11/2016

Broemmelsiek Astronomy Park Public Viewing
Every Friday night with ASEM members

UMSL Observatory
For directions and map
<http://www.umsl.edu~physics/astro/directions.html>

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

Skywatch Hotline: 314-516-5706

Saturdays: 11/5

SLAS EVENTS

October

21 Fri	SLAS regular meeting
22 Sat	Night Skies Over Babler
23 Sun	Sky Orienteering
24 Mon	6th Grade Camp at Babler
25 Tue	Monthly PEO Chapter meeting
27 Thur	Windor Library Solar
28 Fri	Buford Mountain Observing
29 Sat	Buford Mountain Observing
30 Sun	Buford Mountain Observing

November

4 Fri	Public Telescope Viewing SLSC
5 Sat	SLAS dark sky viewing
7 Mon	SLCL Thornhill Branch
9 Wed	Barr Library SLPL
9 Wed	Rock Road Library SLCL
10 Thur	Middendorf Library St. Charles
10 Thur	SLAS board meeting
15 Tue	Jamestown Bluffs Library SLCL
18 Fri	SLAS regular meeting
19 Sat	Sidewalk Solar Observing SLSC
20 Sun	Sky Orienteering

December

2 Fri	Public Telescope Viewing SLSC
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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 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 and Johnny Mac's**



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

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
lirbrarytelescope at slasonline.org		
Loaner Equipment	Greg Gaines	314-277-3082
loaner at slasonline.org		
Merchandise	Vacant	
merchandise at slasonline.org		
Membership	Don Ficken	636-225-0269
membership at slasonline.org		
Newsletter Editor	Jim Small	314-909-7211
newsletter at slasonline.org		
Observing Programs	Jerry Loethen	314-329-8008
observing at slasonline.org		
Publicity	Rich Heuermann	314-962-9231
publicity at slasonline.org		
Recognition	Larry Campbell	636-244-2867
recognition at slasonline.org		
'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
webmaster 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>

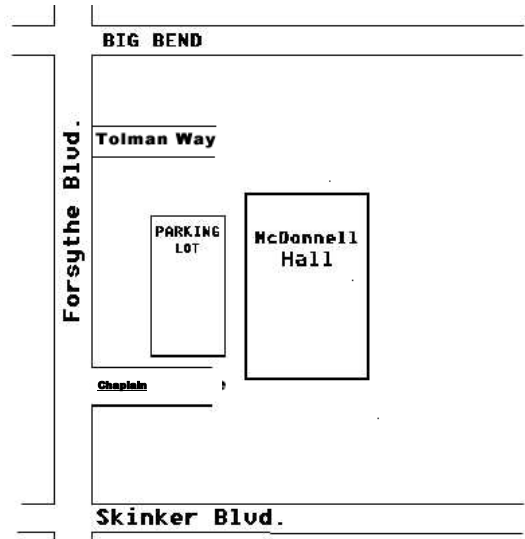


Who We Are and What We Do

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

Jim Small
13128 Cozyhill Drive
St. Louis, MO 63122

