NOVA





Official Newsletter of the Salt Lake Astronomical Society Volume 48 Number 3 May - June 2018

Please Welcome The Newest SLAS Members!

Anderson, Joshua Carbine, Edmund Clements, Michael Eshete, Ebsa Floyd, Chelise Glazier, Klover Heisler, Edward Kucher, Nikolus Nelson, Geoff Souliere, Christine & Alex



SLAS members got this Ha image of the Medusa Nebula on 23 March via remote access to the University of Utah's Willard L. Eccles Observatory on Frisco Peak.

MINUTES OF THE SALT LAKE ASTRONOMICAL SOCIETY SPOC ADVISORY COMMITTEE MEETING 03 March 2018

Location: Denny's Restaurant, 250 W 500 S, Salt Lake City

- I. Committee members present: Ken Porras, Jim Keane, Stan Eriksen, Patrick Wiggins, Luke Moses, Mike Clements, Rodger Fry
- II. SLAS members present: Leslie Fowler, Denise Larsen, Alpine Stringham, Siegfried Jachmann, John Johansen
- III. Training protocol for Telescopes
 - a. Training coordinator on each telescope
 - i. Bogdan Patrick Wiggins
 - ii. Ealing William Kennedy
 - iii. Grim Rodger Fry
 - iv. Clements Mike Clements
 - b. Each coordinator has full authority to select those instructors under him. The coordinator will assign trainees to the instructor he wants to do the training.
 - c. Revised check lists were handed out for each telescope. The coordinators are to review the check list and recommend any changes to them. Initially about ten copies of each will be printed so as to try them out and make any modifications needed before mass printing.
 - d. Schedule to start 2nd week in March (weather permitting)
 - e. Training Priority
 - i. Instructors
 - ii. Recertification of users
 - iii. General training
 - f. Coordinators are encouraged to go on line and reserve times for training sessions as felt appropriate.
- IV. General needs at SPOC
 - a. SPOC Cleanup April 21, 2018 3:00 PM (weather permitting if cancelled May 5, 2018 3:00 PM. We will go on full war against the Wasp attacks and will keep them at bay this season.
 - b. Other
- V. Building Specific Work Items
 - a. Jim Keane presented the excellent idea of placing a display board on the north exterior wall of the control room. This would be a sandwiched plexiglass display, hinged at the top and anchored with screws. Rodger Fry will design this frame.
 - b. Refractor
 - i. Install stainless steel kick plates on bottom of south door inside and outside.

Much discussion was held about the kick plates vs. replacing the door. It was decided to go with the stainless-steel kick plates with silicon caulking underneath it. Also, the root of the problem is the sprinkler spraying on the door. Rodger Fry will contact SPSSD to rectify the problem.

- ii. Touch up paint on dome and doors as needed. Much discussion was held about touching up or do a full sand-blast, prime and paint. It was decided to remove loose paint with a wire wheel and re-prime and re-paint as necessary. Rodger Fry will investigate renting a cherry picker for a day to do this.
- c. Ealing Bay
 - i. Touch up paint on exterior steel structures
 - ii. Ann House is working on a write-up of the history for the Mickey Mouse telescope & this will be placed in the display along with other donated items.
- d. Control Room
 - i. Inspect and repair roof on southeast corner of control room
 - ii. Remove rain gutter on south wall of control room
- e. Grim Bay
 - i. Touch up paint on exterior steel structures
 - ii. Add magnetic board and white board on west wall of grim bay
- f. Kolob Building
 - i. Install red light in southeast corner
 - ii. Install chain on apex of center support beam
 - 1. Fabricate 2" X0.125" steel strap with chain hooks bolted to each end to attach chain fall for removal of the secondary mirror when silver coating.
 - iii. Get information for SLOAN Digital Sky Survey Disc and Make plaque. Patrick will provide this info to Rodger Fry & Rodger Fry will make display sign.
 - iv. Build display case for the scale models of the observatories and the Clements Telescope.

- v. Patrick Wiggins has compiled photos documenting the construction progress of the Kolob Building and the refurbishing of the Clements Telescope. He is asking all members that might have some photos to send them to him so he can include them in the photo documentation.
- vi. Jim Keane will research out finding commercially available letters that we can affix to the Kolob Building above the large door that will read "Home of the World's Largest Amateur Telescope".

VI. Telescope Specific Work

- a. Bogdan Refractor
 - i. Hand Paddle Drive System to be removed
 - ii. Bill Kennedy has machined stand-offs to raise the finder scope away from the main scope to provide full view through the finder. He also machined and installed a focus lock screw on the focuser to prevent gravity from de-focusing the telescope (way to go Bill !).

b. Ealing

- i. Sky Wizard (is it worth repairing)
 - 1. Jim Keane has done some research through the winter and presented three options.
 - a. Re-program the encoders
 - b. Replace the belts to the encoders
 - c. Replace the belts with machine gearing
 - d. It was determined to investigate option A and B.
 - 2. A discussion was held about if the optics require cleaning and Bill Kennedy said that Steve Dodd looked at the optics and said they were good.

c. Grim

- i. Inspect and service as needed RA & Dec drive system and clutches
- ii. Computer drivers have been updated including better drivers for the Astrometrics hardware. The computer is now ready to be installed.
- iii. Jim Keane started to investigate issue with scope not properly going to selected object in the sky. Jim will perform some additional testing once the scope is ready for use (ie, computer is connected to telescope). At the conclusion of this additional testing Jim will present his findings to the observatory director.

d. Clements Telescope

- i. Silver coat optics
 - This will be done as soon as we can insure optimal temperature of the mirror and the building. Rodger Fry will bring a propane patio heater to warm up the building and telescope.
- ii. Design and build Alt-Az setting circle segments (attach with magnets). Mike Clements and Rodger Fry will make the measurements needed and provide them to Luke Moses to draw the 1:1 size plans on AutoCAD.
- iii. Finish and paint counter weight cart. Luke Moses, Mike Clements and Rodger Fry will complete this.
- iv. Hard wire charging and battery supply system. Mike Clements and Luke Moses will design and build this.

VII. Items to purchase

- a. General Observatory
 - i. Purchase about 10 chairs (folding or plastic nesting) Stan Eriksen suggested getting folding chairs (black) that are available at COSTCO for about \$20 each. Rodger Fry will look into this.
 - ii. Barbecue grill Luke Moses said he has a grill that he would donate minus the tank, but needs wheels replaced. Alpine Stringham said he'd donate a tank.
 - iii. Office supplies (pens, markers & batteries) Rodger Fry and Patrick Wiggins will take an inventory of supplies needed on Friday March 9, 2018 when they open the observatory.
- b. Boqdan
- c. Ealing Purchase 2" to 1 1/4" low-profile eyepiece adaptors.
- d. Grim Purchase 2" to 1 4" low-profile eyepiece adaptors.
- e. Clements
 - i. Illuminated sign from Amazon (like on the other bays) Rodger Fry will make a battery power supply for the display so that it won't need an extension cord.

VIII. Members only star party

It was suggested to hold a member only star party on a Saturday night near the end of March prior to the start of the regular scheduled parties. This will be brought up in the SLAS board meeting.

MINUTES OF THE SALT LAKE ASTRONOMICAL SOCIETY BOARD MEETING 14 March 2018

Location: Denny's Restaurant, 250 W 500 S, Salt Lake City

Board Members in Attendance: Denise Larsen, Jim Keane, Dave Bernson, Nate Goodman, Leslie Fowler

General Members in Attendance: Observatory Director, Rodger Fry, Siegfried Jachmann, Larry Holmes, Patrick Wiggins, Luke Moses, John Johansen, Tony Sarra and Joan Carman

Meeting called to order: 7:00 pm

Dave Bernson welcomed everyone and reminded us that meetings need to be conducted with decorum and etiquette.

Leslie Fowler was nominated and unanimously voted in as the new Vice President. Jim Keane made the first motion, Nate Goodman made the second motion.

Tony Sarra was unanimously nominated to be the official Eccles Telescope Imaging Coordinator. He will be sending out a SLAS blast for the next event.

Patrick notified us that the star party flyers are still in the printing process, and he will let the board know when they are ready for distribution. 10,000 copies will be printed. Nate, Dave, Denise and Leslie will distribute to the Harmon's stores. Patrick will give some to Kravers. Jim will distribute to the Tooele schools. Joan will distribute to the Salt Lake County libraries.

Joan received a check for \$325.00 for a library loaner scope. It is from the Friends of Park City Library. She wanted to emphasize that word is spreading about the loaner scope program, and as of April 1 the telescopes will become available for use at the Salt Lake County Public Libraries. She will also announce this on Facebook.

Nate announced that the sun party for March 10 was REALLY successful. These are at the Museum of Natural History and will continue to the end of March, pending on the weather, of course. During the star-gazing season, sun parties are held at Winchester Park in Murray. Jim initiated a discussion about holding sun parties at the Downtown Farmers' Markets. This and other locales continue to be discussed.

Jim has requested that anyone receiving a school or special star party request, please direct these to Jim, so as to eliminate any confusion and eliminate any problems with booking any of these requests at SPOC.

Jim said the next special star party will be at the Bear River Bird Refuge on March 24. He will send out a SLAS blast soon on this. He said he continues to receive more requests from various organizations.

Jim outlined a number of upcoming SLAS sponsored star parties including one at SPOC for the U of U's Department of Physics and Astronomy on July 16.

Siegfried suggested holding a sun and star party for the Butlerville Days in Cottonwood Heights. 20-30,000 people show up for this. Several seemed onboard in volunteering. More discussion will follow.

Denise told everyone that we're getting plenty of likes and shares from our two Facebook pages. These are the "Salt Lake Astronomical Society" (different from SLAS talk) and "Stansbury Park Observatory". She has made what is called a "Facebook event" for the General Meeting next week.

Denise read off the financial records for SLAS. We are solvent and all funds accounted for.

SPOC Director, Rodger Fry, said the SPOC advisory committee meeting that was held March 3 went well. The observatory is up and running, ready for training of operators and instructors. If you wish to still be an instructor on the scopes, please contact the appropriate coordinator for this.

Rodger asked Patrick to have checklists printed for each of SPOC's scopes and have them ready for the coming season's star parties.

There will be a work party on April 21, at 3pm to get SPOC cleaned up for the season.

Jim passed around pictures of his ideas as to how we can give better identity to SPOC on the different buildings.

Jim also asked that an inventory be made of all SPOC equipment. Luke said he will give us a status update at board meetings on the scopes that are loaned out. Luke and Dave agreed to do a monthly tracking of the loaner scopes.

Siegfried confirmed that noted lunar photographer and cartographer, Robert Reeves, will be the featured guest speaker at the June General Meeting.

Old Business None was mentioned

New Business

Denise noted how hard it is to reach Dave and told him he needs to be more available to members. Dave said that he now has his cell phone working and would check in with board members tomorrow and would be more accessible in the future.

John said he has a SLAS promotional video ready to be posted to the club's website. He said it and future videos could be used in support of future ZAP grant applications.

The newly appointed board member for the ZAP grant is Jim Keane.

Meeting Adjourned: 8:25 pm

MINUTES OF THE SALT LAKE ASTRONOMICAL SOCIETY GENERAL MEETING 21 March 2018

Location: Room 103 Calvin Rampton Technology Building at Salt Lake Community College

Attendance: 41 Members and guests

Board Members in Attendance: Leslie Fowler, Denise Larsen, Jim Keane and Nate Goodman

Meeting called to order: 7:31 pm

In the absence of the club's president SLAS Secretary/Treasurer, Denise Larsen, called the meeting to order at 7:31 pm

Denise introduced the club's newly appointed Vice President, Leslie Fowler, and then the evening's speaker, long-time SLAS member Don Colton who presented "CCD Imaging".

Presentation by Don Colton on astrophotography and image processing.

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Presentation by Don Colton on astrophotography and image processing.

Denise announced that SPOC Director Rodger Fry told her that SPOC telescope recertification for instructors only is in process as weather permits. Refresher courses will begin after that.

Nate Goodman said that the last winter Sun party at the Natural History Museum of Utah was scheduled for the 31st. He also added to what Denise had said about SPOC telescope training.

Tony Sarra said the next remote imaging session using the U of U's telescope on Frisco Peak was set for Friday night, March 23.

Siegfried Jachmann spoke about the Butlerville Days fair on July 23 and 24 at Butler Elementary. He is organizing day and nighttime observing events and asked volunteers to contact him.

Tom Sevcik asked anyone interested in helping with Astronomy Day events for April 21 at the Clark Planetarium to contact him.

The meeting was adjourned to Village Inn for "Advanced Training" at 8:52 pm.

MINUTES OF THE SALT LAKE ASTRONOMICAL SOCIETY BOARD MEETING 11 April 2018

Location: Denny's Restaurant, 250 W 500 S, Salt Lake City

Board Members in Attendance: Dave Bernson, Leslie Fowler, Denise Larsen, Nate Goodman, Jim Keane

General Members in Attendance: Patrick Wiggins, Tony Sarra, Larry Holmes, Luke Moses & Jill, Observatory Director, Rodger Fry, Siegfried Jachmann, John Johansen, Joan Carman

Meeting called to order: 7:00 pm

Dave Bernson's Business

Dave said that since Enid can no longer be at the Friday star parties for this season, we will need volunteers to give away the books. Any volunteers please contact Dave or anyone else on the board to do this. Denise suggested that once the current books have been given away that we get some new books.

Flyers are ready for distribution. They were divided among those that volunteered to distribute them to the usual places including the Clark Planetarium. They were provided for free by the Transcript Bulletin Publishing in Tooele, an in-kind donation of about \$200.00

Nate Goodman's Business

Nate, who is the observatory star party coordinator, has volunteers for the scopes for the star party on April 21. He will send out a SLAS blast as the next sun party approaches on April 28.

Jim Keane's Business

Jim mentioned the Butlerville Days for July 23 and 24. He reminded us that volunteers need to plan on all day for both days. This event will serve as an experiment to find out if we want to continue to be a part of these bigger events. 20,000-30,000 people will be there.

Siegfried and Joan will find out from Cottonwood Heights city what the city will provide in regards to accommodations. Jim motioned that the club spend \$100 to provide the public with water. The vote was unanimous.

Jim made another motion that the club buy a whiteboard and accessories, cost to be around \$100, that can be used at various events. The vote was unanimous to buy one.

Jim suggested that our draperies and display board be stored at SPOC for easy access in between events. He also suggested all items belonging to the club be stored at SPOC so that better inventory can be kept. This move should be made no later than April 21.

He also suggested we possibly create club subcommittees. ie: guest speakers, books that are given away, etc. This can allow more people to become more involved with the club.

He also suggested that for the sake of future grants we track in-kind donations and volunteer hours. Also that we record standard financials in addition to the basic "checkbook" format we have now. Please let the Secretary/Treasurer, Denise Larsen, know of any donations so she can record them.

Jim made us aware that he has applied for \$13,000.00 for next year's ZAP grant. Next special star party is April 26 for the cub scouts at SPOC.

Denise Larsen's Business

Denise read the financial report. We are solvent and all funds accounted for. \$18,808.48 is the total as of April 2, 2018.

Leslie Fowler's Business

Leslie is taking volunteers for Astronomy Day on April 21 at the Clark Planetarium. Please contact either Leslie or Tom Sevcik to volunteer at the Planetarium.

Rodger Fry's Business

Rodger announced that they will be re-silvering the Clements telescope this Saturday, the 14th, starting at 10am. This will be an all-day event.

There will be a work party at SPOC April 21 starting at 3 pm. (Please be mindful that both Astronomy Day at the Planetarium and the SPOC work party are on the same day...don't double book yourself :-))

Luke, Mike and Rodger have added more gadgets to the Clements telescope to better facilitate its use. It was also noted that those wishing to operate this scope have to be taught on the Ealing or Grim and also be recommended by the respective teacher in order to learn to operate the Clements.

Old Business

Luke Moses, the observatory loaner scope coordinator, reported that we have 10 scopes to loan out to members.

New Business

Patrick announced that Marlene Egger has been made the newest instructor for the Bogdan. Congratulations, Marlene!!

Dave announced that he would be the speaker for next week's General Meeting. The topic will be Nagler's Laws of Visual Magnification and how they apply to SPOC telescopes.

Tony Sarra mentioned the last Eccles remote imaging session went well. The next event will be this Saturday, the 14th, at 8 pm. He will send out a reminder email.

More SLAS and ZAP stickers are needed. Patrick will ask Tooele Publishing if they can print more stickers and if so, get an estimate of the cost.

Dave presented his resignation letter to the board, which is worded that he will resign at the end of the General Meeting on April 18. This resignation comes due to some health problems and we wish this long-time standing and beloved member a speedy recovery.

Dave gave a nice endorsement to John Johansen who is the first nominee. After some discussion on how to replace the president, and in accordance with the constitution, it was decided that Dave will send out a SLAS blast opening the position to all. Any nominees need to be at the general meeting on April 18 OR email the board members.

Meeting Adjourned: 8:30 pm

MINUTES OF THE SALT LAKE ASTRONOMICAL SOCIETY GENERAL MEETING 18 April 2018

Location: Room 103 Calvin Rampton Technology Building at Salt Lake Community College

Attendance: 46 members

Meeting called to order: 7:33 pm

SLAS president Dave Bernson called the meeting to order at 7:30 pm.

Dave introduced the members of the board and then turned time over to members with announcements.

Nate Goodman said members are welcome to take some fliers of the star party schedule. He also spoke about upcoming public star and sun parties.

Enid Norton said that owing to her new job, she will need someone to fill in for her with the tickets and drawings for the Friday star parties.

Observatory Director, Rodger Fry, reminded everyone about this coming Saturday's work party and evening star party at SPOC. The work party will start at 3 pm. Feel free to bring gardening tools and gloves.

Rodger then displayed the new cover that will go on the back end of the Bogdan telescope. We appreciate Leslie and Aleta coordinating on getting this made.

Rodger reported that he had arranged with Tooele County for a \$1,200 grant to cover the cost of a SPOC brochure to be distributed far and wide along I-80.

Rodger finished by reading a letter from the major donor for SPOC's newest building explaining the new building was named after the Kolob area in southern Utah.

Joe Bauman voiced his objections to the new building at SPOC being named Kolob.

Dave presented a talk entitled "What Power is Your Telescope?".

Dave concluded his remarks by announcing that, due to health concerns, he was resigning as president.

Board member Jim Keane asked anyone wanting to fill the position of president to let him know.

Jim then adjourned the meeting to "Advanced Training" at the nearby Village Inn at 8:56 pm.

Editor's note: After the meeting, the remaining board members met to discuss the two persons who expressed interest in filling the position of president, Joe Bauman and John Johansen. Following the procedure outlined in the club's constitution, they appointed John Johansen to fill the vacancy. Minutes will be made available for this meeting and will be posted to the NOVA newsletter.

MINUTES FOR THE UNSCHEDULED MEETING OF THE BOARD OF DIRECTORS FOR THE SOLE PURPOSE OF APPOINTING A NEW PRESIDENT 18 April 18 2018

Board Members in Attendance: Leslie Fowler, Denise Larsen, Jim Keane, Nate Goodman

Location: Outside of Room 103 Calvin Rampton Tech Building at Salt Lake Community College

Jim Keane, Board Member-at-Large, brought to order an unscheduled meeting of the Board of Directors at 9:00 pm to appoint a new president in light of Dave Bernson resigning at the end of tonight's General Meeting. It needs to be stated that Vice President Leslie Fowler did not want to be considered for the position.

Two candidates expressed interest. They were John Johansen and Joe Bauman.

Each board member gave their selection and reason as follows:

Jim - selects John because of his knowledge of astronomy and how well he handles situations in general. He sees Joe as being too controversial and not handling situations professionally.

Nate - selects John because of his enthusiasm and being a long-time member. He likes Joe as a friend but sees him as too stubborn and set in his ways to be president.

Denise - selects John and agrees for the reasons that have previously been stated. Does not see Joe as a good fit for the reasons that have previously been stated.

Leslie - selects John and agrees for the reasons that have previously been stated. Does not see Joe as a good fit for the reasons that have previously been stated as well.

Jim would like it to go on record that Dave is a very valuable club member, a jewel in the club, who gives good speeches and is happy to see him stay in the club, as we all are.

So by unanimous vote of the board members and effective immediately, John Johansen is the Salt Lake Astronomical Society's new president for the remainder of the year 2018.

This meeting was witnessed and well-attended by other club members.

In lieu of the fact that you won't see these minutes until Saturday, April 21, Vice President Leslie Fowler sent out a SLAS blast in front of these minutes, announcing that we had an open discussion appointing John Johansen as the new president for the remainder of the year 2018.

Meeting adjourned: 9:12 pm

SLAS Member Information

The SLAS Member Information file is available at http://slas.us/slasbooks/NEWMEM.PDF.

Loaner Telescopes For SLAS Members

SLAS has several scopes available for loan to current SLAS members. Check the SLAS website under " $\underline{\text{Membership Benefits}}$ " for details.

2018 SLAS Board of Directors			
President	John Johansen	801.550.0993	jjmagic19@comcast.net
Meetings			
Vice President	Leslie Fowler	801.554.5697	2sistersatstudio32@gmail.com
Publicity, PR and Web Content			
Secretary-Treasurer	Denise Larsen	801.913.1622	climberette@yahoo.com
Membership Dues & Renewals			
Board Member at Large	Nate Goodman	801.277.0193	ngoodman6053@gmail.com
SPOC Star Party Coordinator			
Board Member at Large	Jim Keane	801.942.3516	jimk@sisna.com
School & Special Star Parties			
Appointed Positions			
Astronomical League Contact	Aleta Cox	801.966.2636	alc@fredccox.com
Equipment Manager	Luke Moses		luke.moses1@gmail.com
Historian	Patrick Wiggins	435.882.1209	4099wiggins@gmail.com
NASA Night Sky Ambassador	Ann House	801.671.8447	ann@annhouse.org
Newsletter Editor	Patrick Wiggins	435.882.1209	4099wiggins@gmail.com
Observatory Director	Rodger Fry	801.288.0851	rcfry@comcast.net
Private Star Party Coordinator	Don Colton	801.571.9757	dcoltonsprint@earthlink.net
Solar Scope Manager	Ken Porras	801.210.8427	kennethprrs@gmail.com
Webmaster	Ken Warner		webmaster@slas.us
ZAP Grant Writer	Joe Bauman	801.583.7935	josephmbauman@yahoo.com
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SPOC Advisory Committee Chair through DEC 2018	Rodger Fry	001 200 0051	rafrudaomanat not
<u> </u>	-		rcfry@comcast.net
Member through JAN 2021	Rodger Fry		rcfry@comcast.net
Member through JAN 2021	Stan Eriksen		staneriksen@icloud.com
Member through JAN 2021	Bill Kennedy		truss_tube@hotmail.com
Member through JAN 2021	Nate Goodman		ngoodman@lgcy.com
Member through DEC 2020	Larry Holmes		larry@kijoda.com
Member through JAN 2019	Ken Porras		kennethprrs@gmail.com
Member through JAN 2019	Jim Keane		jimk@sisna.com
Member through DEC 2020	Patrick Wiggins		4099wiggins@gmail.com
Member while SLAS President	Dave Bernson		bernsondave@gmail.com
Member as Obser. Dir. Emeritus	Bruce Grim	435.882.5237	bmargrim@msn.com
Member while Harmons Rep.	Vacant		

SPOC Telescope Instruction Coordinators

Refractor	Patrick Wiggins	435.882.1209 4099wiggins@gmail.com
Ealing	Bill Kennedy	801.964.6199 truss_tube@hotmail.com
Grim	Rodger Fry	801.288.0851 rcfry@comcast.net
Clements	Mike Clements	801.557.0187 mr70inch@gmail.com

Events Calendar

May 2018

- 04 Star party at Wheeler Farm, 6351 S 900 E, dusk to 10:00 pm
- 05 Star party at SPOC, dusk to 10:00 pm
- 09 Board Meeting at Denny's restaurant, 250 W 500 S, 7:00 pm
- 16 General Meeting at SLCC's Rampton Technology Building, 7:30 pm
- 19 Star party at SPOC, dusk to 10:00 pm
- 25 Star party at Cougar Harmons, 4872 W 6200 S, dusk to 10:00 pm
- 26 Star party at SPOC, dusk to 10:00 pm

June 2018

- 02 Sun party at 6400 S 1100 W, 9:00 am to noon
- 08 Star party at Wheeler Farm, 6351 S 900 E, dusk to 11:00 pm
- 09 Star party at SPOC, dusk to 11:00 pm
- 13 Board Meeting at Denny's restaurant, 250 W 500 S, 7:00 pm
- 20 General Meeting at SLCC's Rampton Technology Building, 7:30 pm
- 22 Star party at Brickyard Harmons, 3270 S 1300 E, dusk to 11:00 pm
- 23 Star party at SPOC, dusk to 11:00 pm
- 30 Sun party at 6400 S 1100 W, 9:00 am to noon

July 2018

- 06 Star party at Wheeler Farm, 6351 S 900 E, dusk to 11:00 pm
- 07 Star party at SPOC, dusk to 11:00 pm
- 11 Board Meeting at Denny's restaurant, 250 W 500 S, 7:00 pm
- 18 General Meeting at SLCC's Rampton Technology Building, 7:30 pm
- 20 Star party at 7th Street Harmons, 7755 S 700 E, dusk to 11:00 pm
- 21 Star party at SPOC, dusk to 11:00 pm
- 27 Mars Watch at SPOC, dusk to 11:00 pm
- 28 Sun party at 6400 S 1100 W, 9:00 am to noon
- 28 Mars Watch at SPOC, dusk to 11:00 pm

View a list of all SLAS events online on the **Events Calendar**

Outdoor events are held weather permitting.

NOVA is a publication of the Salt Lake Astronomical Society, a non-profit organization. Nova contains minutes of meetings, Board member names & contact info, activities, reports and special club events. The editor of NOVA is appointed by the SLAS Vice-President. Members are encouraged to contribute content. Current NOVA editor is Patrick Wiggins, 4099wiggins@gmail.com.