

March 2018

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TUCSON AMATEUR ASTRONOMY ASSOCIATION

Monthly Events Bulletin

March 2nd General Meeting

Steward Observatory Lecture Hall, Room N210, UA Campus, 933 N Cherry Ave.

Introductory Presentation

6:30pm

*Astronomy Services
Revitalization Plan
presented by*

*TAAA's Astronomy Services
Redesign Team*

The Astronomy Services (a.k.a. Paid Star Party) Program is critical to the on-going health and welfare of the Tucson Amateur Astronomy Association. Learn about the redesign of the program, from a single Coordinator to a Team approach and how you can help take this program into the future while securing the financial wellbeing of TAAA!

Invited Lecture

7:30pm

*Exoplanet Atmospheres on the
Cutting Edge of Astronomy*

*presented by
Joshua Lothringer, PHD
Candidate at The University of
Arizona's Lunar and Planetary
Lab*

Josh received his BA in Astrophysics at the University of Colorado, where he worked at the Laboratory for Atmospheric and Space Physics (LASP) on space missions including MAVEN and Kepler.

The discovery and characterization of exoplanets has become one of the fastest growing fields in astronomy. With thousands of planets discovered and dozens beginning to be spectroscopically characterized, we are starting to realize what makes our solar system special. Joshua will present his efforts to understand the atmospheres of exoplanets through observations with the Hubble Space Telescope of a Neptune-sized exoplanet, one of the smallest planets yet characterized. He will describe what his computer modeling has uncovered about the atmospheres of the hottest known exoplanets. And he will share how he has turned his passion for exoplanets into art.

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GET READY TO STAR PARTY!!!

This month is packed full of outreach and public star and solar parties. Volunteers will be needed for night viewing, solar viewing and demonstrating NSN Toolkits!!

TAAA Ladies Night Out

Thursday, March 15

6:30 pm

Great Conversation!

Delicious Food!

Casa Molina

4240 E Grant Rd

(South side of Grant just west of Columbus Blvd)

Preview menu at <http://casamolinedelnorte.com>

RSVP Susan at 520-546-2961 or cyzeh@aol.com

This Month in Brief

Usual set-up time for most group and public events is 30 minutes before the start time stated here.

Outreach Star Party Central Tucson Jim Knoll	Mar 1 (Thu) Booth-Fickett 450 S Montego Dr	5:30 PM
Outreach Solar Party Sahuarita Jim Knoll	Mar 1 (Thu) Sahuarita Middle School 350 W Sahuarita Rd	7:30 AM
General Meeting Ben Bailey	Mar 2 (Fri) Steward Obs. Rm N210 933 N Cherry Ave	6:30 PM
Outreach Star Party Oro Valley Jim Knoll	Mar 6 (Tue) Innovation Academy 825 W Desert Fairways Dr	6:30 PM
Outreach Star Party NW Tucson Jim Knoll	Mar 7 (Wed) Lulu Walker Elementary 1750 W Roller Coaster Rd	6:45 PM
Outreach Star Party NW Tucson Jim Knoll	Mar 8 (Tue) Leman Academy 7720 N Silverbell Rd	6:30 PM
AFSIG Meeting (Beginners) Dennis McMacken	Mar 8 (Thu) USGS Bldg Room 253 520 N Park Ave	7:00 PM
Outreach Star Party Central Tucson Jim Knoll	Mar 9 (Fri) University High School 421 N Arcadia Ave	6:00 PM
TIMPA Star Party Dennis McMacken	Mar 10 (Sat) TIMPA 3250 N Reservation Rd	Sunset
Outreach Event Central Tucson Jim Knoll	Mar 10/11 (Sat/Sun) Tucson Festival of Books UA Mall (Science City)	8:00 AM
Outreach Star Party Central Tucson Jim Knoll	Mar 12 (Mon) Catalina High School 3645 E Pima St	7:00 PM
Outreach Star Party East Tucson Jim Knoll	Mar 13 (Tue) Sewell Elementary School 425 N Sahuara Ave	7:00 PM
Outreach Star Party Oracle Jim Knoll	Mar 13 (Tue) Biosphere 2 32540 S Biosphere Rd	7:30 PM

Key:	TAAA Members Only	For Organization	Public Events
Outreach Star Party NW Tucson Jim Knoll	Mar 14 (Wed) Harelson Elementary 826 W Chapala Dr	7:30 PM	
Outreach Solar Party North Central Tucson Jim Knoll	Mar 15 (Thu) Sunrise Drive Elementary 5301 E Sunrise Dr	8:00 AM	
Ladies Night Out Susan O'Connor	Mar 15 (Thu) Casa Molina 4240 E Grant Rd	6:30 PM	
TIMPA Star Party Dennis McMacken	Mar 16 (Fri) TIMPA 3250 N Reservation Rd	Sunset	
CAC Star Party Mike McDowell	Mar 16/17 (Fri/Sat) Chiricahua Astronomy Complex	Sunset	
Public Star Party NE Tucson Jim Knoll	Mar 17 (Sat) Agua Caliente Park 12325 E Roger Rd	7:00 PM	
Outreach Solar Party North Central Tucson Jim Knoll	Mar 18 (Sun) Tucson Hebrew Academy 3888 E River Rd	10:00 AM	
Outreach Star Party Far West Tucson Jim Knoll	Mar 18 (Sat) Saguaro Natl Park West 2700 N Kinney Rd	7:00 PM	
Outreach Star Party Central Tucson Jim Knoll	Mar 19 (Mon) Rio Vista Park 3974 N Tucson Blvd	7:00 PM	
Outreach Star Party East Tucson Jim Knoll	Mar 23 (Fri) St Michael's School 620 N Wilmot	7:00 PM	
Outreach Solar Party SE Tucson Jim Knoll	Mar 24 (Sun) Saguaro Natl Park East 3693 S Old Spanish Trail	3:00 PM	
Public Star Party Far West Tucson Jim Knoll	Mar 24 (Sat) Ironwood Picnic Area 7300 West Hal Gras Rd	7:00 PM	
Public Star Party Oracle Jim Knoll	Mar 24 (Sat) Oracle State Park 3820 E Wildlife Dr	7:00 PM	

Future Events

Member Events	
Apr 6 (Fri)	General Meeting
Apr 7 (Sat)	TIMPA Star Party
Apr 11 (Wed)	Board Meeting
Apr 12 (Thu)	AFSIG Meeting
Apr 13 (Fri)	TIMPA Star Party
Apr 13/14 (Fri/Sat)	CAC Star Party
Apr 19 (Thu)	Ladies Night Out

Outreach Events	
Apr 4 (Wed)	Degrazia Elementary @ Camp Cooper
Apr 7 (Sat)	Catalina State Park
Apr 12 (Thu)	Pearce Elementary
Apr 13 (Fri)	Future Innovators Night
Apr 14 (Sat)	Ironwood Picnic Area
Apr 14 (Sat)	Chiricahua National Monument
Apr 21 (Sat)	Agua Caliente Park
Apr 21 (Sat)	Ora Mae Harn Park
Apr 21 (Sat)	International Wildlife Museum
Apr 22 (Sun)	Astronomy Festival

Special Interest Group (SIG) Activities

Astronomy Fundamentals SIG (AFSIG)

Meeting: Mar 8 (Thu) 6:30 PM

U.S.G.S. Building, Room 253 (520 North Park Ave)
 Contact: Dennis McMacken Phone: 520-609-7860
 Email: fundamentals[at]tucsonastronomy.org

Come join us for a presentation from the fundamentals of amateur astronomy. Doug Smith will tell us about the Astro League's "Analemma Observing Club". The "Constellation of the Month" is "Canis Minor", presented by Gus Gomez.

Dennis and Bill Yohey are looking for people to present future "Constellation of the Month", whether it is an old favorite or a constellation you would like to learn more about. Also, do you have a topic that would help us become better or more knowledgeable observers? Present it at the AFSIG. Let Bill or Dennis know, so we can schedule you in. Is there a topic you would like to hear about? Let us know, also. The Astronomy Fundamentals Special Interest Group, is for all TAAA members who want to learn about and share the multiple aspects of the hobby.

The USGS Building is on the northeast corner of Park and 6th Street. Free parking is available nearby after 5pm. The closest free parking is on the south side of 6th Street. An elevator is available on request. Contact Dennis McMacken at phone number or email above.



Starry Messengers SIG
 Opening Minds to the Universe

Next Meeting: Mar 19 (Mon) 6:30PM

Beyond Bread (3026 N Campbell)
 Contact: Terri Lappin
 Phone: 520-977-1290
 Email: smsig@tucsonastronomy.org

The theme at the UA ScienceCity this year is Powers of Ten. ScienceCity is part of the Tucson Festival of Books on the UA campus. We will feature the scale of the universe with kids assembling a set of construction paper circles representing things from atoms to the Milky Way. We need several volunteers to fill 3 hour shifts on March 10 and 11 (Saturday/Sunday) between 9am and 5:30pm. Our booth and telescopes are visited by about 5000 people. Your help will be appreciated! The more help we have, the less likely the other volunteers will lose their voices.

Signup sheets will be at the Mar 2nd meeting or contact Terri Lappin at 520-977-1290 or terrilappin@tucsonastronomy.org to let her know what 3-hour period you want to take. Jim Knoll is coordinating solar telescopes.

Astro-Imaging SIG (AISIG)

Meeting: Next meeting TBA

Location: Total Wine & More (4370 N Oracle Rd)
 Contact: Jim Heasley Phone: 520-268-8586
 Email: astro-photo[at]tucsonastronomy.org

The next meeting of the AISIG is yet to be determined. Contact Jim Heasley for more information.

Member Star Parties

The TIMPA observing site is located a few miles beyond the Desert Museum. The CAC observing site is located in southeast Arizona near Sunsites, AZ, about 1.5 hours drive from Tucson. Maps to both sites can be found on the TAAA website. Locked gates protect both sites. Call or email the contact person to learn when the gate will be unlocked.

Chiricahua Astronomy Complex

Mar 16 & 17 (Fri & Sat)

Contact Person/RSVP to: Mike McDowell
 Email: cac-director[at]tucsonastronomy.org
 Phone: 206-356-6624

Chiricahua Astronomy Complex (CAC) is the club's dark observing site, located in Cochise County approximately 100 miles southeast of the center of Tucson. The site includes concrete telescope pads with electricity, a roll-off roof observatory with a Celestron 14" telescope, a picnic Ramada, and a full bathroom facility with shower room. The new Reynolds-Mitchell Observatory includes a 40" telescope and a large warm room. At an elevation of 4800 feet, be prepared for cooler temperatures. Try to arrive before sunset. Our use permit limits the number of attendees at any one time, so reservations and cancellations are required. If you would like to attend, you must contact CAC Director John Kalas. Reservations are on a first come – first serve basis. You need to reserve for both nights if observing both nights.

TIMPA

Mar 10 & 16 (Sat & Fri)

Contact Person: Dennis McMacken
 Email: fundamentals[at]tucsonastronomy.org
 Phone: 520-609-7860

The AFSIG hosts the TIMPA star parties. An AFSIG representative will open the gate for an evening of viewing. The Gila Monster Observatory with its Meade 14" Schmidt-Cassegrain telescope will be open for your viewing pleasure. The TIMPA site features a large parking area and full restroom facilities. Be prepared for cool temperatures after sunset. Guests are welcome, accompanied by a TAAA member. We hope to see you there!

Astronomical Events in Our Community

Below is a list of astronomy presentations in the Tucson area, mostly on the UA campus. For more information, visit the websites listed. Take advantage of these opportunities. Miss an event? Many lectures are available on the web. Visit the listed website to find out.

Date/Time	Speaker	Title	Location	Information
Mar 12 Mon 7:30PM	Dr. Jeffrey Bennett University of Colorado	<i>A Global Warming Primer</i>	Steward Observatory Lecture Hall N210	http://www.as.arizona.edu/public-evening-lecture-series
Mar 26 Mon 7:30PM	Dr. Christopher Walker Steward Observatory	<i>Astronomy from Near Space</i>	Steward Observatory Lecture Hall N210	http://www.as.arizona.edu/public-evening-lecture-series

TAAA Outreach Events

Members are asked to support these outreach events. Details and maps can be obtained by logging into your Member Planet account. Sign up at a meeting, respond to Jim Knoll's email requests, or pick up the phone. Signing up is important so you can be contacted in case of cancellation. Contact Jim at school-sp-volunteers@tucsonastronomy.org or 520-241-3113. If interested in being an Astronomy Guide and presenting projects from the Night Sky Network Outreach Toolkits, contact Terri Lappin at smisg@tucsonastronomy.org.

Booth-Fickett School Star Party

Mar 1 (Thu) **Set-up: 5:30 PM**
Central Tucson **Observing: 5:30 PM to 7:30 PM**
Leader: Jim Knoll **Volunteers Needed: 3**
Cross Streets: Kolb/Broadway

We are supporting the science fair at Booth-Fickett School with an astronomy talk and star party for about 250 K-8 students. Booth-Fickett is located at 450 S Montego Dr. Go south on Kolb to Calle Arturo and turn left (east) to the school. Set up outside the Tech Center. **Three volunteers with scopes are needed for this event.**

Sahuarita Science Technology (SciTech) Expo (SOLAR)

Sahuarita Middle School
Mar 1 (Thu)
AM: Set-up: 6:30 AM **Observing: 7:30 AM to 12:00 PM**
PM: Set-up: 11:30 AM **Observing: 12:30 PM to 3:30 PM**
Sahuarita
Leader: Jim Knoll **Volunteers Needed: 10**
Cross Streets: I-19/Sahuarita Rd

We are supporting the Sahuarita SciTech Expo for 1200 students grades 6-8 At Sahuarita Middle School. The school is located at 350 W Sahuarita Rd. From exit 75 on I-19 go east and turn into the Sahuarita District Auditorium parking lot and park as directed. Set up scopes in open area by the Middle School gym. NSN toolkits will be set up in auditorium. **Two to three more volunteers for NSN Toolkits scopes are needed for this event.**

Innovation Academy Star Party

Mar 6 (Tue) **Set-up: 6:00 PM**
Oro Valley **Observing: 6:30 PM to 8:30 PM**
Leader: Jim Knoll **Volunteers Needed: 4**
Cross Streets: LaCanada/Moore

Innovation Academy is having a star party for 300 students grades K-5. The school is located at 825 Desert Fairways Dr. Go North on Moore from LaCanada to Desert Fairways Dr, the school will be on the right. Set up on main parking lot or playground. **Three more volunteers with scopes are needed for this event.**

Lulu Walker Elementary School Star Party

Mar 7 (Wed) **Set-up: 6:00 PM**
NW Tucson **Observing: 6:45 PM to 8:00 PM**
Leader: Jim Knoll **Volunteers Needed: 4**
Cross Streets: LaCanada/River

We are supporting the science fair at Lulu Walker Elementary with a star party for 300 students grades K-6. The school is located at 1750 W Roller Coaster Rd. Go north on LaCanada from River to Roller Coaster Rd and turn left. Set up on the open field. **Four volunteers with scopes are needed for this event.**

Leman Academy of Excellence Star Party

Mar 8 (Thu) **Set-up: 5:30PM (NSN) 6:00 PM (Scope)**
NW Tucson **Observing: 6:00 PM to 8:00 PM**
Leader: Jim Knoll **Volunteers Needed: 4**
Cross Streets: I-10/Cortaro

We are supporting the science fair at Leman Academy of Excellence with a star party and NSN toolkit for 300 students grades K-8. The school is located at 7720 N Silverbell Rd. Go west on Cortaro from I-10 and turn south on Silverbell. The school is on left. Set up on the courtyard. **Three more volunteers with scopes and a NSN toolkit volunteer are needed for this event.**

Thank You Volunteers!

Potential Contacts This Month: 7225
 Volunteers Needed This Month: 83

University High Astronomy Club Star Party

Mar 9 (Fri) **Set-up: 6:00 PM**
Central Tucson **Observing: 7:00 PM to 9:00 PM**
Leader: Jim Knoll **Volunteers Needed: 5**
Cross Streets: Swan/5th St

The University High Astronomy club is having a star party for 25 students. The school is co-located with Rincon High School which is located at 421 N Arcadia near. University High is at the south side of the campus. Setup on the practice field next to the football field. **Two more volunteers with scopes are needed for this event.**

Tucson Festival of Books (Solar/NSN toolkit/Booth)

Mar 10/11 (Sat/Sun) **Set-up: 7:30 AM**
Central Tucson **Observing: 8:30 AM to 5:00 PM**
Leader: Jim Knoll **Volunteers Needed: 10**
Cross Streets: Campbell/University

6 SOLAR SCOPES are needed (3 scopes morning and 3 scopes afternoon) or all day if you prefer. **Still need 2 scopes March 10 morning and afternoon, and 2 scopes March 11 morning and afternoon. Please specify date and shift when volunteering.**

Volunteers are needed to man the TAAA Booth and NSN Toolkit activities (specify shift). **Morning Shift:** Setup 7:30 AM; Viewing 8:30 AM to 1 PM. **Afternoon Shift:** Setup 12:00 PM; Viewing 1:00 PM to 5:30 PM. Setup is on the UA Mall.

Catalina High School Star Party

Mar 12 (Mon) **Set-up: 6:30 PM**
Cental Tucson **Observing: 7:00 PM to 9:00 PM**
Leader: Jim Knoll **Volunteers Needed: 2**
Cross Streets: Alvernon/Pima

The Catalina High School is having a star party for about 20 students. The school is located at 3645 E Pima St. From Alvernon go west on Pima to the school. The viewing Location is on the basketball courts east of the football field. **Two volunteers with scopes are needed for this event.**

Sewell Elementary School Star Party

Mar 13 (Tue) **Set-up: 6:30 PM**
SE Tucson **Observing: 7:00 PM to 8:30 PM**
Leader: Jim Knoll **Volunteers Needed: 3**
Cross Streets: Speedway/Wilmot

Sycamore Elementary School is having a star party for 50 students. The school is located at 16701 S Houghton Rd, south of Sahuarita Rd. Set up on open field across from playground. **Three volunteers with scopes are needed for this event.**

Biosphere 2 UA Astronomer Convention

Mar 13 (Tue) **Set-up: 6:30 PM**
Oracle, AZ **Observing: 7:30 PM to 9:00 PM**
Leader: Jim Knoll **Volunteers Needed: 3**
Cross Streets: AZ Route 77/Biosphere Rd

We will be providing telescopes for the Summer Science Academy at Biosphere 2 where 50 students (grades 7-12) are expected. Biosphere 2 is located at 32540 S Biosphere Rd in Oracle, AZ. All viewing will be on lawn or service road behind the cafe.

TAAA Outreach Events (cont.)

Harelson Elementary School Star Party

Mar 14 (Wed) Set-up: 6:00 PM
NW Tucson Observing: 6:30 PM to 8:00 PM
Leader: Jim Knoll Volunteers Needed: 4
Cross Streets: Ina/Oracle

Harelson Elementary School is having a star party for 300 students grades K-6. The school is located at 826 W Chapala Dr. Go west on Ina to Paseo del Norte and turn north and drive to Chapala Dr the school is on the NW corner. Set up on playground behind school. **Three more volunteers with scopes are needed for this event.**

Sunrise Drive Elementary School Solar Party (NSN Toolkit)

Mar 15 (Wed) Set-up: 7:30 AM
North Central Tucson Observing: 8:00 AM to 1:00 PM
Leader: Jim Knoll Volunteers Needed: 3
Cross Streets: Sunrise/Craycroft

Sunrise Drive Elementary School is having a solar party for 150 students grades K-5. The school is located at 5301 E Sunrise Dr. Go west on Sunrise from Craycroft, the school is on the right (north). Set up on the north field. **Two volunteers with solar scopes are needed for this event.**

Ironwood Picnic Area Public Star Party

Mar 17 (Sat) Set-up: 6:00 PM
Far West Tucson Observing: 6:30 PM to 8:30 PM
Leader: Jim Knoll Volunteers Needed: 3
Cross Streets: Kinney/Gates Pass

We are supporting a public star party at the Ironwood Picnic Area in Tucson Mountain Park. About 50 people attend these regularly scheduled star parties at the Ironwood Picnic Area. This is located at 7300 West Hal Gras Rd, which is off Kinney Road just south of Old Tucson Studios. Setup will be near the restroom facilities, about 3/4 of the way in from Kinney Road. **Two more volunteers with scopes are needed for this event.**

Tucson Hebrew Academy Solar Party (NSN Toolkit)

Mar 18 (Sun) Set-up: 9:30 AM
North Central Tucson Observing: 10:00 AM to 2:00 PM
Leader: Jim Knoll Volunteers Needed: 3
Cross Streets: River/Alvernon

Tucson Hebrew Academy is having a solar party for 800 students grades 1-6. The school is located at 3888 E River Rd. Go east on River from Alvernon, the school is just east of the Jewish Community Center. Set up on the grass field south of the campus. **Three volunteers with solar scopes and one NSN Toolkit volunteer are needed for this event.**

UA Astronomy Department Star Party

Mar 18 (Sun) Set-up: 6:30 PM
Far West Tucson Observing: 7:00 PM to 9:00 PM
Leader: Jim Knoll Volunteers Needed: 5
Cross Streets: Kinney Road/Mile Wide

We're hosting a star party for UA students taking general sciences astronomy course. About 50 students are expected to attend this event held at the Red Hills Visitor Center at Saguaro National Park West. This is located at 2700 N Kinney Rd. Set up at the parking lot next to the Visitor Center. **Four more volunteers with scopes are needed for this event.**

Friendship Force International @ Rio Vista Park Star Party

Mar 19 (Mon) Set-up: 6:30 PM
Central Tucson Observing: 7:00 PM to 9:00 PM
Leader: Jim Knoll Volunteers Needed: 4
Cross Streets: Prince/Tucson Blvd

The Friendship Force International is having a star party for about 25 Japanese tourists (50-75). Interpreters will be present. The park is located at the end of Tucson Blvd by the Rillito River. viewing location is on the grassy area next to the parking lot. **Two more volunteers with scopes are needed for this event.**

TAAA Outreach Events (cont.)

St Michael School Star Party

Mar 23 (Fri) Set-up: 6:30 PM
East Tucson Observing: 7:00 PM to 9:00 PM
Leader: Jim Knoll Volunteers Needed: 3
Cross Streets: Wilmot/Speedway

St Michael School is having a star party for 60 students grades 5-8. The school is located at 602 N Wilmot. Go south on Wilmot from Speedway the school is on the east side by 5th St. Set up on school park. **Two more volunteers with scopes are needed for this event.**

Saguaro National Monument Solar Party (NSN Toolkit)

Mar 24 (Sat) Set-up: 2:00 PM
North Central Tucson Observing: 3:00 PM to 5:00 PM
Leader: Jim Knoll Volunteers Needed: 3
Cross Streets: Old Spanish Trail/Escalante

TAAA is supporting a solar party for 30 students ages 8-12. The monument is located at 3692 S Old Spanish Trail at the intersection of Escalante. Set up at the Visitor Center. **No more volunteers are needed for this event.**

Agua Caliente Park Public Star Party

Mar 24 (Sat) Set-up: 6:30 PM
NE Tucson Observing: 7:00 PM to 9:00 PM
Leader: Jim Knoll Volunteers Needed: 4
Cross Streets: Roger/Soldier Trail

We are supporting a public star party at Aqua Caliente Park for the Pima County Natural Resources, Park & Recreation. About 50 people attend these regularly scheduled star parties at the Agua Caliente Park. The park is located at 12325 E Roger Road. This is near Soldier Trail. Setup will be at the bus lanes at the north end of parking lot. **Four volunteers with scopes are needed for this event.**

Oracle State Park Public Star Party

Mar 24 (Sat) Set-up: 6:00 PM
Oracle Observing: 7:00 PM to 9:00 PM
Leader: Jim Knoll Volunteers Needed: 3
Cross Streets: Oracle (AZ 77)/Wildlife Dr

We are supporting a public star party at Oracle State Park. About 100 people attend these star parties. The park is located at 3820 E Wildlife Dr. Take Highway 77 (Oracle Rd) north from Tucson and follow the signs. Observing will be at the sidewalk along the Kannally Ranch House parking lot and on the Ranch House upper patio. **Two more volunteers with scopes are needed for this event.**

Announcements

- TAAA received a report from Rudy Schwartz's daughter, Julie, that Rudy passed away in February 2018. Rudy had been a member since 1987, and Julie reports that he very much enjoyed the club.
- The February **Board of Directors Meeting** will be held on March 14th at 6:30 PM in the UMC Cafeteria, Rm 2500F (1500 N Campbell Ave).
- **Meeting refreshments are provided by fellow members. We need volunteers for calendar year 2018. A signup sheet will be at the meeting.** Be sure to thank them for the goodies. John Christensen coordinates this important aspect of our meetings—contact him if you want to bring refreshments. The TAAA reimburses up to \$25 (receipts not required). Duties can be shared. Contact John at refreshments-coordinator[at]tucsonastronomy.org.
- **Monthly Bulletin** deadlines are the 15th of the preceding month. Email all submissions to taaa-newsletter[at]tucsonastronomy.org