

November 2018

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TUCSON AMATEUR ASTRONOMY ASSOCIATION

Monthly Events Bulletin

November 2nd General Meeting

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

Introductory Presentation
6:30pm

Working/Interacting with Minors

Invited Lecture
7:30pm

*Hayabusa2: Exploring Asteroid
Ryugu and Implications for the
Future*
presented by
Adriana Mitchell, Undergraduate
Senior, Optical Sciences and
Engineering, University of Arizona

Visiting Near Earth Asteroids helps scientists understand conditions during the formation of the solar system and might help uncover where Earth's water and organic materials originated. Adriana will discuss the large strides being made in asteroid exploration with the current asteroid sample-return missions; NASA's OSIRIS-Rex mission to Bennu and JAXA's Hayabusa2 mission to the asteroid Ryugu. She will explain the implications for these cutting edge missions and her involvement in the creation of imaging products critical for characterizing potential landing sites on Ryugu for JAXA.

NOTES FROM THE PRESIDENT

The TAAA Board met on October 10, 2018 and some of the topics it addressed include:

The new TAAA program **Working/Interacting with Minors** will be the topic of the 6:30 Member Meeting, Friday November 2nd. Whether or not you volunteer to work with minors, you will still encounter information that is relevant to you. If possible, please come a few minutes early to the meeting since we need to record names of persons attending in order to provide certificates for completion of the course and to keep track of how many members complete the training.

Astronomical League Observing Program Workshop at TIMPA on Saturday, November 3rd. Contact Doug Smith alcor@tucsonastronomy.org for questions or to become involved in an observing program.

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TAAA Ladies Night Out

Thursday, November 15

Great Conversation!

6:30 pm

Delicious Food!

Arizona Inn

2200 E Elm St

(East of Campbell, between Grant and Speedway)

Preview menu at arizonainn1-px.trvlclick.com

RSVP Susan at 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.

General Meeting Mae Smith	Nov 2 (Fri) Steward Obs. Rm N210 933 N Cherry Ave	6:30 PM
TIMPA Star Party Dennis McMacken	Nov 3 (Sat) TIMPA 3250 N Reservation Rd	Sunset
Outreach Star Party NW Tucson Jim Knoll	Nov 3 (Sat) Cooper Center Donor/Teacher Recognition 5403 W Trail End Rd	6:30 PM
Outreach Star Party Central Tucson Jim Knoll	Nov 5 (Mon) Dodge Traditional Middle School 5831 E Pima St	5:30 PM
Outreach SOLAR Central Tucson Jim Knoll	Nov 6 (Tue) Northminster Christian 2450 E Ft Lowell	9:00 AM
Outreach Star Party Central Tucson Jim Knoll	Nov 6 (Tue) Catalina High School 3645 E Pima	6:00 PM
Outreach Star Party NE Tucson Jim Knoll	Nov 8 (Thu) Esperero Middle School 5801 N Sabino Canyon Rd	6:30 PM
AFSIG Meeting (Beginners) Dennis McMacken	Nov 8 (Thu) USGS Bldg Room 253 520 N Park Ave	7:00 PM
Outreach Star Party West Tucson Jim Knoll	Nov 9 (Fri) Cholla High School 2001 W Starr Pass Blvd	6:00 PM
Public Star Party NE Tucson Jim Knoll	Nov 10 (Sat) Agua Caliente Park 12325 E Roger Rd	6:30 PM
Outreach Star Party Central Tucson Jim Knoll	Nov 14 (Wed) Tucson Masonic Lodge 3590 N Country Club Rd	6:00 PM
Outreach Star Party NW Tucson Jim Knoll	Nov 15 (Thu) Tucson Homeschool Adventures 9200 N Oracle Rd	6:00 PM

Key:	TAAA Members Only	For Organization	Public Events
Outreach Star Party Central Tucson Jim Knoll	Nov 15 (Thu) Butterfield Elementary 3400 E Massingale Rd	6:00 PM	
Ladies Night Out Susan O'Connor	Nov 15(Thu) Arizona Inn 2200 E Elm St	6:30 PM	
AISIG Meeting Tom Rolfsmeyer	Nov 16 (Fri) Nanini Library 7200 N Shannon Rd	6:00 PM	
Outreach Event NW Tucson Jim Knoll	Nov 16 (Fri) AZ STEM Adventure (SARSEF) 7600 N Shannon Rd	9:00 AM	
Public Star Party NE Tucson Jim Knoll	Nov 17 (Sat) Ironwood Picnic Area 7300 W Hal Gras Rd	6:30 PM	
AFSIG Meeting Terri Lappin	Nov 19 (Mon) Beyond Bread 3026 N Campbell	6:30 PM	
Outreach Star Party SE Tucson Jim Knoll	Nov 20 (Thu) Ford Elementary School 8001 E Stella Rd	6:00 PM	
Outreach Star Party SE Tucson (Vail) Jim Knoll	Nov 28 (Thu) Ocotillo Ridge Elementary 10170 S White Lightening	5:00 PM	
Outreach Star Party South Tucson Jim Knoll	Nov 29 (Thu) Mission Manor Elementary 600 W Santa Rosa	6:00 PM	
Outreach Star Party SE Tucson (Vail) Jim Knoll	Nov 30 (Thu) Vail Academy & High School 7762 E Science Park Dr	6:00 PM	
Outreach Star Party Central Tucson Jim Knoll	Nov 30 (Thu) Tucson Waldorf School 3605 E River Rd	6:00 PM	

Future Events

Member Events	
Dec 1 (Sat)	TIMPA Star Party
Dec 7 (Fri)	General Meeting
Dec 7/8 (Fri/Sat)	CAC Star Party
Dec 12 (Wed)	Board Meeting
Dec 13 (Thu)	AFSIG Meeting
Dec 20 (Thu)	Ladies Night Out
Dec 29 (Sat)	TIMPA Star Party

Outreach Events	
Dec 6 (Thu)	Amphi Middle School
Dec 8 (Sat)	Ironwood Picnic Area
Dec 14 (Fri)	Catalina High School
Dec 15 (Sat)	Agua Caliente Park

Special Interest Group (SIG) Activities

Astro-Imaging SIG (AISIG)

Meeting: Nov 16 (Fri) 6:00 PM

Location: Nanini Library (7300 N Shannon Rd)
Contact: Tom Rolfsmeyer
Group email: astro-photo[at]tucsonastronomy.org
Leader email: mrolf@earthlink.net

At our next AISIG meeting our topics will be:

Member's favorite websites for Astrophotography (basic).
Bring a card with the URL address and be willing to talk about the site or demo it.

Modified DSLR's for Astrophotography (advanced).
Members will discuss how their DSLR was modified and the cost to do so. With some images they have taken to show the group.

If you are interested in astro-imaging, in being involved in planning, or in learning about it, please participate in these meetings. To assist with Astro-Imaging Special Interest Group planning and organization, contact Tom Rolfsmeyer.

Astronomy Fundamentals SIG (AFSIG)

Meeting: Nov 8 (Thu) 6:30 PM

U.S.G.S. Building, Room 253 (520 North Park Ave)
Contact: Connor Justice
Group email: fundamentals[at]tucsonastronomy.org
Leader email: elliot.c.justice[at]gmail.com

Come join us for a presentation from the fundamentals of amateur astronomy. Kay Lehman talk about the northern constellation Piscis Austrinus. For our main topic, Joe Jacoby will be discussing Choosing and Using Telescope Eyepieces

The AFSIG is 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 the would help us become better or more knowledgeable observers? Present it at the AFSIG. Let Connor know, so we can schedule you in. Is there a topic you would like to hear about or do you to present but need help finding a topic? Shoot us an email at fundamentals[at]tucsonastronomy.org.

The Astronomy Fundamentals Special Interest Group, is for all TAAA members who want to learn about and share the multiple aspects of the hobby. It is not just for beginners or new members, though, of course, it is one of the best way for them to learn about the club and hobby. Please come and share in the fun, whether to learn something new or share some hard won knowledge.

The USGS Building is on the northeast corner of Park and 6th Street. Free parking is available in University parking lots nearby after 5pm. The closest free parking is on the south side of 6th Street. From Sixth Street turn south on Park, turn left into the alley behind The China Pasta House to get into the parking lot. Or, park at the meters, they are also free after 5 PM. Don't park at permit only spaces. There is a fee to park in the Sixth Street parking garage to the east. The meeting room is on the second floor; use the stairway in the central courtyard. An elevator is available on request. Contact Dennis McMacken at 520-609-7860 or email Connor Justice (see above).



Starry Messengers SIG
Opening Minds to the Universe

Meeting: Nov 19 (Mon) 6:30P

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

The Starry Messengers SIG has a very full plate and could use your help filling requests we have for hands-on activities. These activities take from 5 to 20 minutes to complete. Pick a topic and we'll train you to become an Astronomy Guide for that activity. Here are upcoming events we want to cover and the requested topics.

11/15 (Thu) Tsn Homeschool Adv. 6-8 pm Solar System
11/16 (Fri) AZ STEM PCC NW 9 am-1 pm undecided
11/28 (Wed) Ocotillo Ridge Elem 5-7 pm Black Holes
11/30 (Fri) Vail Academy/HS 6-8 pm Life in the Universe

Let Terri Lappin know if you want to become involved with this valued service we provide to the community. At our next meeting we'll discuss our exhibit for the 2019 Tucson Festival of Books in March. Our exhibit will feature the Moon and the Apollo lunar landings.

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

Nov 9 & 10 (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

Nov 3 & 9 (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!

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 msig@tucsonastronomy.org.

Teacher & Donor Recognition Star Party @ Cooper Center

Nov 3 (Sat) **Set-up: 6:30 PM**
Far West Tucson **Observing: 7:00 PM to 9:00 PM**
Leader: Jim Knoll **Volunteers Needed: 4**
Cross Streets: Speedway/Camino de Oeste

The Cooper Center for Environmental Learning is having a teacher and donor recognition star party for about 150 people of all ages. The Cooper Center is located at 5403 W Trails End Rd. Take Camino de Oeste north from Speedway and turn west onto Trails End Rd. Setup in the open area near restroom facilities. Access the site from the dirt road at the east end of the main parking lot near the dumpsters. **Four volunteers with scopes are needed for this event.**

Amity Foundation Circle Tree Ranch Star Party

Nov 3 (Sat) **Set-up: 6:00 PM**
NE Tucson **Observing: 6:30 PM to 8:30 PM**
Leader: Jim Knoll **Volunteers Needed: 3**
Cross Streets: Tanque Verde/Houghton

The Amity Foundation is having a star party at Circle Tree Ranch located at 10500 E Tanque Verde Rd. About 70 people ages 7 to 70 are expected to attend. Go east on Tanque Verde Rd about 1/4 mile. The sign to Amity will be on the right. Setup will be at the center of the compound. **One more volunteer with a scope is needed for this event.**

Dodge Traditional Magnet Middle School Star Party

Nov 5 (Mon) **Set-up: 5:00 PM**
Central Tucson **Observing: 5:30 PM to 7:00 PM**
Leader: Jim Knoll **Volunteers Needed: 4**
Cross Streets: Wilmot/Pima St

The Dodge Traditional Magnet Middle School is having a star party for 200 students in grades 6 to 8 and their family members. The school is located at 5831 E Pima St. The school is on the NW corner of Pima & Sahuara. Turn right into the school off Pima St. Set up on the grass field. **Four volunteers with scopes are needed for this event.**

Catalina High School Star Party

Nov 6 (Tue) **Set-up: 6:00 PM**
Central Tucson **Observing: 6:30 PM to 8:30 PM**
Leader: Jim Knoll **Volunteers Needed: 3**
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. Setup on the grass field. **Three volunteers with scopes are needed for this event.**

TAAA Outreach Events (Cont.)

Thank You Volunteers!

Potential Contacts This Month: 1600
 Volunteers Needed This Month: 44

Northminster Christian SOLAR Party

Nov 6 (Tue) **Set-up: 8:00 AM**
Central Tucson **Observing: 9:00 AM to 11:00 AM**
Leader: Jim Knoll **Volunteers Needed: 3**
Cross Streets: Alvernon/Pima

The Northminster Christian is having a solar party and NSN Toolkit Demonstration 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 grass field. **Three volunteers with scopes and a NSN Toolkit volunteer are needed for this event.**

Esperero Canyon Middle School Star Party

Nov 8 (Thu) **Set-up: 6:00 PM**
NE Tucson **Observing: 6:30 PM to 8:30 PM**
Leader: Jim Knoll **Volunteers Needed: 4**
Cross Streets: Sabino Canyon/Sunrise

Esperero Canyon Middle School is having a star party for about 200 students and family members. The School is located at 5801 N Sabino Canyon Rd. Esperero is the second school drive. Park in the bus drive near soccer field and track. Set up will be on the soccer field. **Four volunteers with scopes are needed for this event.**

Cholla High School Star Party

Nov 9 (Fri) **Set-up: 5:30 PM**
West Tucson **Observing: 6:00 PM to 8:00 PM**
Leader: Jim Knoll **Volunteers Needed: 3**
Cross Streets: 22nd St/I-10

The Cholla High School is having a star party for about 80 students. The Cholla High School is located at 2001 W Starr Pass Blvd. From 22nd St and I-10 go west until it becomes Starr Pass Blvd. Continue west to La Cholla Blvd. Turn into student parking lot (first one you come to) on the NE corner of the complex. Setup on upper walkways outside main building. **Three volunteers with scopes are needed for this event.**

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
Nov 7 7:00PM	Dr. Erik Asphaug Lunar & Planetary Laboratory	<i>Impact Origin of the Moon?</i>	Kuiper Space Sciences Lecture Hall, RM 308	https://www.lpl.arizona.edu/calendar/evening-lectures
Nov 19 7:30PM	Dr. Lynn Carter Steward Observatory	<i>Mars 20/20: Science, Engineering and Landing Sites for the next Mars Rover</i>	Steward Observatory Lecture Hall N210	http://www.as.arizona.edu/public-evening-lecture-series

TAAA Outreach Events (Cont.)

Agua Caliente Park Public Star Party

Nov 10 (Sat)

NE Tucson

Leader: Jim Knoll

Cross Streets: Roger/Soldier Trail

Set-up: 5:30 PM

Observing: 6:00 PM to 8:00 PM

Volunteers Needed: 4

We are supporting a public star party at Aqua Caliente Park. 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. **Three additional volunteers with scopes are needed for this event.**

Whitmore Elementary School Star Party

Nov 13 (Tue)

Central Tucson

Leader: Jim Knoll

Cross Streets: Swan/Glen

Set-up: 5:30 PM

Observing: 6:00 PM to 7:30 PM

Volunteers Needed: 4

Whitmore Elementary School is having a star party for 150 students and family members. The school is located at 5330 E Glen St (1/2-way between Swan & Craycroft). Enter school property through double-gates on west side of school. Set up on playground (field). **Four volunteers with scopes are needed for this event.**

Tucson Masonic Lodge #4 Star Party

Nov 14 (Wed)

Central Tucson

Leader: Jim Knoll

Cross Streets: Country Club/Prince

Set-up: 5:30 PM

Observing: 6:00 PM to 8:30 PM

Volunteers Needed: 3

Tucson Masonic Lodge #4 is having a star party for 80 students in grades 3-8 and family members. The lodge is located at 3590 N Country Club on the SE corner of Prince and Country Club. Setup on the parking lot. Dr. Larry Behers will be giving a talk from 7 to 8 PM. **Two more volunteers with scopes are needed for this event.**

Butterfield Elementary School Star Party

Nov 15 (Thu)

NW Tucson (Marana)

Leader: Jim Knoll

Cross Streets: Ina/Thornysdale

Set-up: 5:30 PM

Observing: 6:00 PM to 7:30 PM

Volunteers Needed: 3

Butterfield Elementary School is having a star party for 100 students. The school is located at 3400 W Massingale Rd. Go east on Ina from Thornysdale to Meredith Rd and north on Meredith Rd to Massingale Rd. Set up on lower playground next to building. **Three volunteers with scopes are needed for this event.**

Tucson Homeschool Adventures Star Party

Nov 15 (Thu)

NW Tucson (Oro Valley)

Leader: Jim Knoll

Cross Streets: Oracle/Calle Concordia

Set-up: 5:30 PM

Observing: 6:00 PM to 8:00 PM

Volunteers Needed: 3

Tucson Homeschool Adventures is having a star party for 30 students grades 2-5 at Canyon Del Oro Baptist Church. The church is located at 9200 N Oracle Rd. Go north on Oracle past Calle Concordia. Setup on the parking lot. **Two volunteers with scopes and one NSN Toolkit volunteer are needed for this event.**

TAAA Outreach Events (Cont.)

AZ STEM Solar Party @ PCC NW Campus

Nov 16 (Fri)

NW Tucson

Leader: Jim Knoll

Cross Streets: Ina/Shannon

Set-up: 8:00 AM

Observing: 9:00 AM to 1:00 PM

Volunteers Needed: 7

We will be providing solar scopes and NSN Toolkits for this event being held at the Pima Community College NW Campus. About 1000 students are expected for this event. The campus is located at 7600 N Shannon Rd. Go north on Shannon from Ina and turn in to the campus. Setup location TBD. **Two more volunteers with solar scopes are needed for this event.**

Ironwood Picnic Area Public Star Party

Nov 17 (Sat)

Far West Tucson

Leader: Jim Knoll

Cross Streets: Kinney/Gates Pass

Set-up: 5:30 PM

Observing: 6:00 PM to 8:00 PM

Volunteers Needed: 3

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. 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 the turn off of Kinney Road. **Two more volunteers with scopes are needed for this event.**

Ford Elementary School Star Party

Nov 20 (Tue)

SE Tucson

Leader: Jim Knoll

Cross Streets: Golf Links/Pantano

Set-up: 5:30 PM

Observing: 6:00 PM to 7:00 PM

Volunteers Needed: 4

Ford Elementary School is having a star party and NSN Toolkit (Dark Skies Education Kit) for 100 students. The school is located at 8001 E Stella Rd. Go south on Pantano from Golf Links and turn east (left) on Stella. The school is just before Lakeside Park. Setup by the flagpole. **Three volunteers with scopes and one NSN Toolkit volunteer are needed for this event.**

Tolson Elementary Star Party @ Cooper Center

Nov 20 (Tue)

Far West Tucson

Leader: Jim Knoll

Cross Streets: Speedway/Camino de Oeste

Set-up: 6:00 PM

Observing: 6:30 PM to 8:00 PM

Volunteers Needed: 2

Tolson Elementary School is having a star party for 40 students at the Cooper Center for Environmental Learning located at 5403 W Trails End Rd. Take Camino de Oeste north from Speedway and turn west onto Trails End Rd. Setup in the open area near restroom facilities. Access the site from the dirt road at the east end of the main parking lot near the dumpsters. **Two volunteers with scopes are needed for this event.**

It's easy
to do!



Web app
available

Can you count stars? Yes? You can do this!

Help increase the awareness of light pollution by submitting observations all year long.

Current Campaign: October 30 — November 8, 2018

Learn more at <http://www.globeatnight.org/>

TAAA Outreach Events (Cont.)

Ocotillo Ridge Elementary School Star Party

Nov 28 (Wed)

Set-up: 5:00 PM

SE Tucson (Vail)

Observing: 5:30 PM to 7:00 PM

Leader: Jim Knoll

Volunteers Needed: 5

Cross Streets: Rex Molly/Camino Loma Alta

Ocotillo Ridge Elementary School is having a star party and NSN Toolkit demonstration (Blackhole Survival) for 200 students. Ocotillo Ridge Elementary School is located at 10170 S White Lightning Ln. From Rex Molly Rd and Camino Loma Alta turn onto Rex Molly Road and follow until paved road ends & dirt road begins. Left onto South White Lightning Lane to school. **Three more volunteers with scopes and one NSN Toolkit volunteer are needed for this event.**

Mission Manor Elementary School Star Party

Nov 29 (Thu)

Set-up: 5:30 PM

SW Tucson

Observing: 6:00 PM to 8:00 PM

Leader: Jim Knoll

Volunteers Needed: 4

Cross Streets: Valencia/12th

Ford Elementary School is having a star party for 150 students. The school is located at 600 W Santa Rosa St. Go north on 12th from Valencia to Santa Rosa. Mission Manor is on the left (west) of 12th. Setup on the playground. **Four volunteers with scopes are needed for this event.**

TAAA Outreach Events (Cont.)

Vail Academy & High School Star Party

Nov 30 (Fri)

Set-up: 5:30 PM

SE Tucson (Vail)

Observing: 6:00 PM to 8:00 PM

Leader: Jim Knoll

Volunteers Needed: 5

Cross Streets: Kolb/Science Park Dr

Vail Academy and High School is having a star party and NSN Toolkit demonstration (Life in the Universe) for 200 students. The school is located at 7762 E Science Park Dr. From I10 & Kolb go N on Kolb to Science Park Dr and turn E to the school. Set up on the soccer field. **Three more volunteers with scopes and one NSN Toolkit volunteer are needed for this event.**

Tucson Waldorf School Star Party

Nov 30 (Fri)

Set-up: 5:30 PM

North Central Tucson

Observing: 6:00 PM to 8:00 PM

Leader: Jim Knoll

Volunteers Needed: 2

Cross Streets: Alvernon/River

Tucson Waldorf School is having a star party and STEM event for 50 students. The school is located at 3605 E River Rd. Go east on River from Alvernon about 1000 feet, the school entrance is on the north side of River. The viewing location is TBD. **Two volunteers with scopes are needed for this event.**

Astronomical League Observing Programs



The Astronomical League Observing Programs are designed to provide direction for your observing, teaching you skills useful for the full enjoyment of our hobby. Each program has a set of requirements. Upon completion of the requirements, you qualify for a certificate and are awarded a pin. This program is only for those who are members of the Astronomical League.

Upon completing the requirements for a program, submit your observations to the TAAA ALCOR. Our ALCOR will review them and then forward them onto the appropriate program coordinator for further review. If they are complete you will be awarded your certificate and pin at one of our meetings.

For more information, ask our ALCOR or visit <http://www.astroleague.org/observing.html>

Our ALCOR is Doug Smith

Beginner Programs

- ◆ Binocular Double Star Program
- ◆ Binocular Messier Program
- ◆ Constellation Hunter Program
- ◆ Dark Sky Advocate Award
- ◆ Deep Sky Binocular Observing Program
- ◆ Galileo Observing Program
- ◆ Lunar Observing Program
- ◆ Messier Observing Program
- ◆ Meteor Observing Program
- ◆ Outreach Observing Award
- ◆ Sketching Observing Award
- ◆ Sky Puppy Program
- ◆ Solar System Observing Program
- ◆ Southern Skies Binocular Program
- ◆ Universe Sampler Program

Intermediate Programs

- ◆ Advanced Binocular Double Star Observing Program
- ◆ Asteroid Observing Program
- ◆ Caldwell Observing Program
- ◆ Carbon Star Observing Program
- ◆ Comet Observing Program
- ◆ Double Star Observing Program
- ◆ Earth Orbiting Satellite Observing Program (EOSOC)
- ◆ Globular Cluster Observing Program
- ◆ Lunar II Observing Program
- ◆ Open Cluster Observing Program
- ◆ Planetary Transit Special Observing Award
- ◆ Southern Skies Telescope Observing Program
- ◆ Sunspotters Observing Program
- ◆ Stellar Evolution Observing Program

Advanced

- ◆ Advanced Binocular Program
- ◆ Analemma Observing Program
- ◆ Arp Peculiar Galaxies Northern Observing Program
- ◆ Asterism Observing Program
- ◆ Bright Nebula Observing Program
- ◆ Dark Nebula Observing Program
- ◆ Galaxy Groups and Clusters Observing Program
- ◆ Herschel 400 Observing Program
- ◆ Herschel II Observing Program
- ◆ Hydrogen Alpha Solar Observing Program
- ◆ NEO Observing Program
- ◆ Occultation Observing Program
- ◆ Planetary Nebula Program Observing Program

NOTES FROM THE PRESIDENT (Cont.)

Terri Lappin shared some information about the organization, Astronomers Without Borders.

Follow-up discussion as held regarding information needed related to last month's suggestion from Gus Gomez to purchase TAAA labels for telescopes. The Board is in favor of this project.

Astronomy Imaging (AI) SIG held a great beginning meeting on October 16th. A presentation was given regarding the use of DSLR and attendees discussed future topics of interest. The next meeting of AISIG will be November 16th from 6:00pm until 7:50pm at Nanini Library, 7300 N. Shannon Rd, Tucson, AZ 8574.

The Board approved the sale to a member for \$1,000 of TAAA-owned vintage books that had been stored at the member's house for many years.

David Rosseter reported on the work of the Nominations and Volunteer Resource Committee (NVRC). One task that NVRC has been tackling is a survey of member interests and skills. The Committee has developed a questionnaire to be sent to members in 3 parts so that members do not receive a lengthy list of questions all at one time. The Committee is collecting the information in order to help provide names of potential volunteers to the Board as positions are vacated or new positions created. Also, this should help prevent contacting members about volunteering for a certain job that does not really fit with their current interests or skills. When you receive a copy of the questionnaire, please complete it and send it back promptly.

The November TAAA Board meeting will be on Wednesday the 14th at Banner University Medical Center in meeting Room C. Members are welcome to attend. At Board meetings, a member may give a five-minute presentation to the Board on any area of concern or a suggestion that they have for the Board. In planning the schedule for the next Board meetings, the Board will consider that topic and decide about placing it on the Board Agenda for further consideration. Members wishing to make a 5-minute presentation to the Board should contact Mae Smith at ssmith@email.arizona.edu a week (Wed, Nov. 7th) prior to the meeting to get on the schedule.

Announcements

- The November **Board of Directors Meeting** will be held on November 14th at 6:30 PM at Banner University Medical Center in meeting Room C (bordering the Banner UMC Cafeteria) (1500 N Campbell Ave).
- **Have you signed up for Member Planet?** This is where the TAAA Member's Only online information can be found. It's where you can learn about member's events, renew your membership online, renew magazine subscriptions, pay Astronomical League membership dues, and update your contact information. For information about accessing this information through Member Planet, send an email to [membership\[at\]tucsonastronomy.org](mailto:membership[at]tucsonastronomy.org).
- **Holiday Party!** The TAAA Holiday Party will be held at the Foley home December 1st.
- **CAC Star-B-Que! Will be Saturday October 6th.** Save the date.
- **Volunteer needed to serve as TAAA Refreshment Coordinator.** This person organizes volunteers to bring refreshments for each Member Meeting. Thanks to John Christensen for having done this job for several years and for doing an excellent job, but John cannot continue at present. To help out, please contact Mae Smith at ssmith@email.arizona.edu.
- **Volunteer needed to edit and post video-recordings of Member Meetings.** Contact Mae Smith at ssmith@email.arizona.edu.
- **Web comments, suggestions or problems**, contact our team at atwebteam@tucsonastronomy.org.
- **Monthly Bulletin** deadlines are the 15th of the preceding month. Email all submissions to [taaa-newsletter\[at\]tucsonastronomy.org](mailto:taaa-newsletter[at]tucsonastronomy.org)
- **Equipment Loaner program.** Contact Ralph Means at elc@tucsonastronomy.org, or 520 460-8770 or bookbuyer1769@gmail.com to check out a telescope, lenses or other equipment. You may try one type or size of telescope, return it, and try another one until you have tested all the scopes in our loaner program. Very helpful for choosing a first telescope or for moving to a new option.
- **Doug Smith** has accepted the additional position of **TAAA Librarian**. Please note that he will be conducting a new inventory of the library and doing some reorganization in the next few months. The library will not be open for checking out books until this process is completed. If you have a TAAA Library book or other materials checked out at the present time, please contact Doug and provide information about the item that you have at alcor@tucsonastronomy.org

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