Oak Flat Public Star Party!
Saturday, August 2—Dusk Until Late

by Lynne Olson

THE FIRE DANGER restrictions have been lifted at Cibola National Forest, which includes the Oak Flat/Juniper Picnic Area, so we are on for another opportunity to observe in a fine dark-sky area near Albuquerque.

The event will begin with solar observing at 6:00 p.m., and all are invited to come at that time and to talk to the members as they set up their impressive array of telescopes on the observing field. You may even want to bring a picnic dinner for the tables area. Sunset is at 8:10 p.m.

Who are you? What do you think about TAAS? How can the organization improve?

by Amy Estelle

ALL CURRENT TAAS members should watch for an e-mail message in the next two weeks with a link to the anonymous TAAS membership survey. Members will have an opportunity to give the Board of Directors direct feedback on programs, activities, and meetings and help determine the organization’s future direction. Current members without an e-mail address on file will receive a mailed copy.
New Planetarium Delivery Expected
2014-15 School Star Party Schedule Posted

by Tom Graham

We can hardly wait to get TAAS members trained on the new planetarium, which should be delivered sometime in August. The school star party schedule is below and on the TAAS website. If you have ever thought of attending one, look at your schedule and see if you can fit one in. They are fun, and kids as well as adults do say the darndest things. Just ask Bob Hufnagel about the lady he talked to at Explora or the boy that wondered how a telescope could see through walls when a picture was posted on the wall and we did an inside presentation. It is all fun because there are just as many Aha moments when kids really get it! Mark your calendar for September 9 at Lowell Elementary School, near the UNM Pit.

September 9, 2014 Lowell Elementary School
October 7, 2014 Ernie Pyle Middle School
November 4, 2014 La Mesa Elementary School
December 2, 2014 Double Eagle Elementary School
January 27, 2015 Governor Bent Elementary School
February 3, 2015 Longfellow Elementary School
March 3, 2015 Rudolfo Anaya Elementary School
April 28, 2015 Manzano Day School

...Oak Flat Star Party continued from page 1

At 8:00 p.m., Dee Friesen will present the TAAS Fabulous Fifty program, highlighting the main constellations and stars of the summer season along with observing tips. This program is offered for each season at various star parties and venues and is both educational and entertaining. There will be a laser-guided constellation tour as the skies darken, and we ask that you use only red headlamps or flashlights to preserve night vision—and to avoid blinding the telescope operators!

The public is highly encouraged to attend, and all TAAS members are invited to bring their telescopes for the enjoyment of the visitors. TAAS looks forward to introducing folks to the night skies—or advancing their knowledge and experience. Parking is available adjacent to the picnic grounds for visitors and on the observing field for those bringing telescopes, with directing signs for both at the entrance. Restrooms are now at the Yucca area north of the observing field due to renovation of those at Juniper.

Please see the details for both TAAS Fabulous Fifty and the star party, as well as the map on www.TAAS.org; e-mail to TAAS@TAAS.org with any questions.

...General Meeting News continued from page 1

Our speaker will be Dr. Horton E. Newsom of the Institute of Meteoritics and Department of Earth and Planetary Sciences at UNM, who will give a history of the amazing Curiosity Rover, its August 2012 landing on Mars, and the Mars Science Lab with ChemCam and its LIBS (Laser Induced Breakdown Spectroscopy) instrument for analysis of rocks and soils. Curiosity completed a Martian year (687 Earth days) on June 24, 2014, and Dr. Newsom will bring the audience up to date on recent and current data coming from the rover.

Dr. Newsom obtained his undergraduate degree at the University of California Berkeley, his doctorate at the University of Arizona, and is currently a research professor at the University of New Mexico. He is a geologist and geochemist with more than 30 years experience with planetary science, including the study of impact craters and their hydrothermal systems.

He has also extensively studied processes on Mars’s surface including impact craters, inverted channels and clay-bearing terrains, and the origin and chemistry of surface materials using data from the Mars Odyssey Gamma Ray spectrometer. He is a co-investigator and science team member on the LIBS instrument on the Mars Science Laboratory “Curiosity,” currently investigating habitable terrains on Mars.

continued on page 6 . . .
PAUL GRUNWALD REPORTED that spectacular weather on June 28 greeted over forty TAAS members and guests. When he arrived at 7:00 p.m. Gordon, Alan, and Dee were already there and setting up. By sunset there were twenty scopes on the field and all but one pad were taken. The parking lot was also close to being full. Transparency was good, seeing was not quite as good, and it took a long time for things to settle down. The good conditions continued with no clouds and intermittent light breezes. Paul started out using the Isengard before Martin took over. Later Paul and Vance worked in the small dome, gathering some images using the CCD on the C14 with Hyperstar. Amy Estelle reported, “Crowded field. Clear sky. Fabulous views through 12.5 reflector. Spent time with beginners Desiree and Hank. Two years in NM after Philly. Pete found the Dumbell Nebula which looks like the crystal football trophy for the college football national champion. Alberio still the stellar hue champ—azure and topaz.” Paul departed at 2:00 a.m., while Gordon, Vance, Alan, Dee, and a few others continued to enjoy the night at GNTO. It was one of the best nights at GNTO in a long time and it proved to be an appropriate send-off for Steve and Jen Riegel, who are relocating to Colorado. We had long-time members mixed with newcomers and families. All of the equipment was being used, and the weather was great! Some photos from this event were in last month’s Sidereal Times.

There are two items of interest to TAAS and GNTO involving development on the mesa west of Belen. The first is PNM’s construction of an electric generation plant near Harrison and Garcia roads, the La Luz Energy Center, a 40-megawatt natural gas power plant on a 60-acre site. It is adjacent to existing PNM transmission facilities and two major interstate natural gas pipelines, helping PNM to keep costs down. According to PNM, the plant will feature the best available air pollution control technology and will use no more water than an average 10-acre farm. Construction is set to begin later this year and will be complete in early 2016. TAAS member Karen Keese has been closely involved with the PNM-sponsored community advisory committee (CAC) that meets to discuss and advise on project impact. Through the CAC, TAAS is working to obtain a copy of the site lighting plan for review and comparison with IDA recommendations. Karen also anticipates some type of PNM public information meeting in the near future.

The second item involves FAA approval of construction of a second runway at Belen’s Alexander Municipal Airport. When the runway is complete, the airport may become a site for certain U.S. Air Force night training flights. Although these training flights are not a certainty, in 2013 TAAS sent a letter to the USAF during the public comment period for the environmental impact report. We expressed our concern regarding the possibility of flight paths over GNTO during our observing activities. The USAF acknowledged our letter and indicated if there was an impact to our observing and imaging, they would work with us to address the concern.

Of more immediate impact could be detours on the roads in the area of the airport. The planned new runway, which will be situated northwest to southeast, will be one mile long. Construction should start before the end of the year. Future expansion of the runway to 6,700 feet would cross over Camino del Llano, and result in closure of that road. The current plan is to reroute traffic onto Harrison south before proceeding west.

The August 23 new moon is the annual picnic at GNTO. This year, nighttime viewing will feature a TAAS Fabulous 50 observing theme. TAAS and GNTO supply burgers, buns, condiments and soft drinks. Side dishes and desserts are potluck. Join with other TAAS members to celebrate and enjoy our own dark-sky site.

The next new moon event is September 20. We are floating GNTO events between Friday and Saturday according to which has the better weather forecast, so the actual event could be held on Friday the 19th. We will post which day the event will be held on Thursday.

Currently, a site cleanup is set for September 6. Details regarding cleanup will be one of the topics discussed at the next GNTO Committee meeting Thursday, July 31. We will meet at Nick & Jimmy’s, 5021 Pan American West Freeway, at 7:00 p.m.

As always, check TAAS_Talk and the TAAS website for last-minute changes and updates.

GNTO is open to all TAAS members and their guests. TAAS members are encouraged to become involved in using and running your observatory. Contact me, or speak with one of the Committee members.

GNTO Director e-mail: gnito@TAAS.org. Or, 518-225-7077 cell; 505-717-2601 land.

---

**Under the Dome**

Notes from and about GNTO

Mike Molitor

---

**Annual Picnic at GNTO August 23**

The second item involves FAA approval of construction of a second runway at Belen’s Alexander Municipal Airport. When the runway is complete, the airport may become a site for certain U.S. Air Force night training flights. Although these training flights are not a certainty, in 2013 TAAS sent a letter to the USAF during the public comment period for the environmental impact report. We expressed our concern regarding the possibility of flight paths over GNTO during our observing activities. The USAF acknowledged our letter and indicated if there was an impact to our observing and imaging, they would work with us to address the concern.

Of more immediate impact could be detours on the roads in the area of the airport. The planned new runway, which will be situated northwest to southeast, will be one mile long. Construction should start before the end of the year. Future expansion of the runway to 6,700 feet would cross over Camino del Llano, and result in closure of that road. The current plan is to reroute traffic onto Harrison south before proceeding west.

The August 23 new moon is the annual picnic at GNTO. This year, nighttime viewing will feature a TAAS Fabulous 50 observing theme. TAAS and GNTO supply burgers, buns, condiments and soft drinks. Side dishes and desserts are potluck. Join with other TAAS members to celebrate and enjoy our own dark-sky site.

The next new moon event is September 20. We are floating GNTO events between Friday and Saturday according to which has the better weather forecast, so the actual event could be held on Friday the 19th. We will post which day the event will be held on Thursday.

Currently, a site cleanup is set for September 6. Details regarding cleanup will be one of the topics discussed at the next GNTO Committee meeting Thursday, July 31. We will meet at Nick & Jimmy’s, 5021 Pan American West Freeway, at 7:00 p.m.

As always, check TAAS_Talk and the TAAS website for last-minute changes and updates.

GNTO is open to all TAAS members and their guests. TAAS members are encouraged to become involved in using and running your observatory. Contact me, or speak with one of the Committee members.

GNTO Director e-mail: gnito@TAAS.org. Or, 518-225-7077 cell; 505-717-2601 land.
Curiosity Rover on Mars
Update After One (Martian) Year

Dr. Horton E. Newsom
UNM Institute of Meteoritics and
Department of Earth and Planetary Sciences
### General Meeting News continued from page 2

Dr. Newsom is also responsible for advisement of undergraduate, graduate, and post-doctoral student research, and has been extensively involved in educational outreach to K–12 teachers, to local middle school and high school students, and to Native American colleges.

This event is free and open to the public, and we encourage all to attend for the fine speaker and the camaraderie of the TAAS members.

A map to the Science and Math Learning Center can be found on [www.TAAS.org](http://www.TAAS.org). Please send any questions to TAAS@TAAS.org and refer to [www.TAAS.org](http://www.TAAS.org) for any further information or changes.

---

**Notes**

- **School Star Party**
- **ATM** – Amateur Telescope Making and Maintenance. Call Michael Pendley for information at 296-0549, or e-mail atm@TAAS.org.
- **GNTO** – General Nathan Twining Observatory
- **GNTO Saturday events** may be held on the Friday before, according to the weather forecast.
- **GNTO Training** – GNTO Observing and Training
- **GNTO NM** – New Moon Premium Observing Night
- **NMMNH&S** – New Mexico Museum of Natural History and Science
- **P & A** – UNM Physics and Astronomy Building, Corner of Lomas and Yale
- **SIG** – Special Interest Group
- **TBA** – To Be Announced
- **UNM** – University of New Mexico Observatory. Call the UNM hotline at 277-1446 to confirm, or e-mail unm_coordinator@TAAS.org.
M8 (the Lagoon Nebula), captured by Paul Grunwald and Vance Ley, using the GNTO C-14 and Hyperstar system located in the GNTO imaging dome, on June 28, 2014. A total of twelve two-minute integrations were made with the club QHY8 camera, controlled by Nebulosity. The sub frames, together with dark frames, were combined using DSS and further processed with Photoshop CS2. The image was cropped, rotated and reversed to a normal view for aesthetics.

Because of the high optical speed of the system (f/1.9) it is possible to create fairly deep images of large objects in a relatively brief time, on the order of a half-hour for many objects. The system has a field of view of 120’ x 80’ which allows us to image fairly large objects, such as M33, in a timely manner. It is, of course, less useful for smaller objects such as M51. Members interested in using the system should contact Vance Ley or Paul Grunwald for training and/or assistance.

—Paul Grunwald and Vance Ley
July Solar Outreach
Dodging Weather

by Roger Kennedy

The Summer Monsoon is taking its toll on observing the Sun in July with the cancellation of several events. The crew did manage to fit in four programs at various venues before taking the outreach show on the road to Washington state. The rest of July and August Linda and I will be touring Snohomish-Island County, providing observing programs to libraries, museums and community groups. Tad, Asis, Dave and company will take over the solar reins in Albuquerque.

We held events on Mondays, July 7, 14, and 21 at the Albuquerque Botanic Garden and Thursday July 17 at Agave Health System.

Some of the month Barry, Roger, and Stan Cohen (friend of TAAS) spent repairing the Celestron equatorial mount. The driver chip failed and the driver board shorted out, but more on that later as we resolved the issue. However, the vice president of Celestron did come through on his promise to replace our mount. It arrived just in time for the road trip.

TAAS volunteers involved this month were: Tad LaCoursiere, Asis Carlos, Dave Ray, and Roger and Linda Kennedy. Totals for July 2014 were 502 observers at the events we hosted. This brings our 2014...
M16, also known as NGC 6611 and as the “Eagle Nebula,” captured on June 28, 2014, at GNTO. A total of 12 x 10-min sub-frames were made using an SBIG 4000XCM camera mounted on a C11-HD edge with focal reducer at f/7 (1960 mm). The mount was a Losmandy G11. The sub-frames were aligned and combined, together with dark frames and flat field frames, using Deep Sky Stacker (DSS). Further processing was performed using Photoshop CS2. The color was deliberately subdued in order to accentuate the texture of the nebula. The famous “pillars of creation” are visible in the center of the image. —Vance Ley
Oh Say, Can You Say?

by Jon Schuchardt

OK you astronomers, I know it’s been a long time since 6th grade English class, but we need a quick review before I plunge into my topic—how to say the names of constellations. You know that words are made up of sounds called syllables. One of the first items we need to know in order to say a word correctly is which sound to stress—or say a bit more strongly than the rest. When words are written the way they sound—this accented syllable can be indicated with an accent mark (‘) or with capital letters, as in “uh-STRON-uh-me.” or “OR-bit.” We’re going to use caps here. Native speakers don’t think about syllables much, but many of our astronomical names come from languages that are native to few or none of us. And sometimes wrong or nonstandard pronunciation can get us into trouble, or at least get us some funny looks.

When my friend Ken and I were seventh graders, he told his mother that our woodshop instructor, Mr. Magnus, said he always fills his gas tank at the “SUN-o-co” station. Ken’s mom immediately quipped, “Tell Mr. Magnus he’s putting the em-PHA-sis on the wrong syl-LA-ble.”

If you’ve been an amateur astronomer for a while, you’ve probably heard several different pronunciations for familiar constellations. Although there is room for disagreement, let’s face it—they can’t all be right. Tony Flanders, an editor at Sky and Telescope, explains some of the reasons for confusion in “Constellation Names and Abbreviations,” a 2007 article you can find on S&T’s website at http://www.skyandtelescope.com/astronomy-resources/constellation-names-and-abbreviations/.

The article includes a helpful list with pronunciation of constellation names and their Latin possessive forms used, for example, when referring to a star in a constellation, like Alpha Orionis or Beta Ursae Majoris.* Unfortunately, S&T hedges on many of the pronunciations and gives credence to some truly vile “alternate” pronunciations. For instance, S&T invites us to pronounce the name for the constellation corresponding to my astronomical sign as either “PISS-eez” or “PISS-eez.” I beg your pardon?

Fortunately, there is another excellent resource: David H. Levy’s A Guide to Skywatching (2002, Fog City Press). Mr. Levy picks a single pronunciation for each constellation, and in my view, he gets it right. Examples of how to say some of those challenging (and frequently butchered) ones, borrowed from Levy’s text, appear in the table below. In the interest of full disclosure, I’m a frequent victim. For instance, I’m always tempted to say “SA-jit-ah” instead of “sa-JIT-ah.”

Why does it matter? Why can’t you say “po-TAT-o’ while I say “po-TA-toe”? As an astronomy club, our primary mission is education, and TAAS is clearly “best in class” with public outreach. When our students or stargazing guests at Bachechi Open Space, Oak Flat, GNTO, or Washington Middle School hear different pronunciations for “Coma Berenices” from different TAAS members, we send mixed signals and undermine our credibility. With consistent pronunciation, we’ll inspire our charges to learn more and yearn to revisit the Ring Nebula in Lyra (LYE-rah), M12 in Ophiuchus (oh-fee-U-cuss), or the Wild Duck Cluster in Aquila (uh-KWI-luh). In short, let’s study up, and then put the em-PHA-sis on the right syl-LA-ble.

* Quoting straight from the IAU (the guys that actually named the constellations):

Each Latin constellation name has two forms: the nominative, for use when talking about the constellation itself, and the genitive, or possessive, which is used in star names. For instance, Hamal, the brightest star in the constellation Aries (nominative form), is also called Alpha Arietis (genitive form), meaning literally “the alpha of Aries.”

See the pronunciation guide to frequently mispronounced constellation names on page 10 . . . .
### Frequently Mispronounced Constellations

<table>
<thead>
<tr>
<th>Constellation</th>
<th>Pronunciation</th>
<th>Constellation</th>
<th>Pronunciation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Andromeda</td>
<td>an-DROH-me-duh</td>
<td>Delphinus</td>
<td>del-FIE-nus</td>
</tr>
<tr>
<td>Antlia</td>
<td>ANT-lee-uh</td>
<td>Draco</td>
<td>DRAY-koh</td>
</tr>
<tr>
<td>Aquila</td>
<td>uh-KWI-luh</td>
<td>Equuleus</td>
<td>eh-KWOO-lee-us</td>
</tr>
<tr>
<td>Auriga</td>
<td>oh-RYE-gah</td>
<td>Eridanus</td>
<td>eh-RID-an-us</td>
</tr>
<tr>
<td>Boötes</td>
<td>boh-OH-teez</td>
<td>Lacerta</td>
<td>lah-SIR-tah</td>
</tr>
<tr>
<td>Caelum</td>
<td>SEE-lum</td>
<td>Lepus</td>
<td>LEE-pus</td>
</tr>
<tr>
<td>Camelopardalis</td>
<td>ka-mel-o-PAR-da-lis</td>
<td>Lyra</td>
<td>LYE-rah</td>
</tr>
<tr>
<td>Canes Venatici</td>
<td>KAH-nez ve-NAT-eh-see</td>
<td>Microscopium</td>
<td>my-kro-SKO-pee-um</td>
</tr>
<tr>
<td>Canis Major</td>
<td>KAH-niss MAY-er</td>
<td>Monoceros</td>
<td>moh-NO-ser-us</td>
</tr>
<tr>
<td>Canis Minor</td>
<td>KAH-niss MY-ner</td>
<td>Ophiuchus</td>
<td>oh-fee-U-cuss</td>
</tr>
<tr>
<td>Capricornus</td>
<td>kap-reh-KOR-nuss</td>
<td>Orion</td>
<td>oh-RYE-un</td>
</tr>
<tr>
<td>Cassiopeia</td>
<td>kass-ee-oh-PEE-uh</td>
<td>Pegasus</td>
<td>PEG-a-sus</td>
</tr>
<tr>
<td>Cepheus</td>
<td>SEE-few-us</td>
<td>Perseus</td>
<td>PURR-see-us</td>
</tr>
<tr>
<td>Cetus</td>
<td>SEE-tus</td>
<td>Piscis Austrinus</td>
<td>PIE-sus OSS-trihi-nuss</td>
</tr>
<tr>
<td>Columba</td>
<td>koh-LUM-bah</td>
<td>Puppis</td>
<td>PUP-iss</td>
</tr>
<tr>
<td>Coma Berenices</td>
<td>KOH-mah bear-eh-NEE-seez</td>
<td>Pyxis</td>
<td>PIK-sis</td>
</tr>
<tr>
<td>Corona Australis</td>
<td>kor-OH-nah os-TRAH-lis</td>
<td>Sagitta</td>
<td>sa-JIT-ah</td>
</tr>
<tr>
<td>Corona Borealis</td>
<td>kor-OH-nah bor-ee-AL-is</td>
<td>Scorpius</td>
<td>SKOR-pee-us</td>
</tr>
<tr>
<td>Corvus</td>
<td>KOR-vus</td>
<td>Scutum</td>
<td>SKU-tum</td>
</tr>
<tr>
<td>Crater</td>
<td>KRAY-ter</td>
<td>Ursa Major</td>
<td>ER-suh MAY-er</td>
</tr>
<tr>
<td>Cygnus</td>
<td>SIG-nus</td>
<td>Vulpecula</td>
<td>vul-PECK-you-lah</td>
</tr>
</tbody>
</table>
M42 AND M43, THE ORION NEBULA. This is my nearly first light using normal equipment. Canon EOS 60D camera, Canon 200-mm f/2.8 L series Lens, iOptron iEQ45 mount, autoguided with SBIG SG-4 using my AT102ED f/7. I had to crop the image due to flat field problems.

Software: BackyardEOS v3, CCDStack v3, ImagesPlus v5.75a, Photoshop Elements v9. Exposure 12x5 minutes for one hour total, ISO 800. Location: my back patio 3 miles north of Oak Flat on March 19.

—John Laning
Welcome to New and Returning TAAS Members

George Friedman
David Hadwiger
Gregory Nelson
Randall Scarberry
Fred Seiler
Arthur Shurcliff
Daren Templet
J. Melanie Templet

Donations to TAAS

GENERAL
Jerry Love
Albert Brettner
Michael Molitor
G. E. Foundation
EDUCATION
David Hadwiger
Jim Seargeant
La Puerta de los Niños
GNTO
Peter Eschman
David Masera
DARK SKY
Laura Calderone
Peter Eschman
Jim Von Haden

The Albuquerque Astronomical Society is a 501(c)(3) organization. Donations are deductible as charitable contributions on the donor’s federal income tax return.

Location, Location, Location

• Chaco Canyon
   6185’ elevation
   Latitude 36° 01’ 50”N   Longitude 107° 54’ 36”W
   36.03’     -107.91’
   36° 1.83’    -107° 54.60’

• Oak Flat
   7680’ elevation
   Latitude 34° 59’ 48”N  106° 19’ 17”W
   34.99’       -106.32’
   34° 59.80’   -106° 19.28’

• UNM Campus Observatory
   5180’ elevation
   Latitude 35° 5’ 29”N   106° 37’ 17”W
   35.09’     -106.62’
   35° 5.48’    -106° 37.29’

Explanations of Dues and Membership Renewal Date

New memberships will be posted as beginning the first day of the month regardless of what day during that month the check is received. Notice of renewal will be sent out the month before the due date. You will have until the end of the month after your renewal date to send your membership check.

If you fail to pay and renew at that time, your membership will lapse. When you pay on a lapsed membership you will be reinstated in the month that the membership was originally due. (If dues were due in March and you did not renew until May or June or July, etc., the date of your renewal will be in March. If your dues are due in April and you pay in March, your membership will still be renewed in April.)

In a nutshell, if you pay late or early your membership date stays the same and your next year’s dues will be due on that date next year.

—Dan Clark

Monthly Membership Report

June 2014

Membership  Current Month  Past Month  Change

Regular  236  229  7
Family  74  70  4
Education  21  18  3
Military  4  4  0
Total Paid  335  321  14
Honorary  7  7  0
Complimentary  35  35  0
Total Members  377  363  14

Editor’s Note

The deadline for the next issue of The Sidereal Times is Friday, August 22. The newsletter editor's e-mail address is TAASeditor@gmail.com.

Text: E-mail text as an attachment, preferably in Microsoft Word or compatible format.

Photos: Caption and credit needed. Attach photos or graphics in separate graphics files. Photos or graphics in Word files are no longer acceptable.

Donations to TAAS

The Albuquerque Astronomical Society is a 501(c)(3) organization. Donations are deductible as charitable contributions on the donor’s federal income tax return.

TAAS Reports & Notices

Location, Location, Location

• Chaco Canyon
   6185’ elevation
   Latitude 36° 01’ 50”N   Longitude 107° 54’ 36”W
   36.03’     -107.91’
   36° 1.83’    -107° 54.60’

• Oak Flat
   7680’ elevation
   Latitude 34° 59’ 48”N  106° 19’ 17”W
   34.99’       -106.32’
   34° 59.80’   -106° 19.28’

• UNM Campus Observatory
   5180’ elevation
   Latitude 35° 5’ 29”N   106° 37’ 17”W
   35.09’     -106.62’
   35° 5.48’    -106° 37.29’

For security reasons, GNTO location is available by request only, so please contact Mike Molitor, GNTO Director, for GNTO information.

Membership Services

for:
• Membership Inquiries
• Events Information
• Volunteer Opportunities

Contact Bob Anderson at membership@TAAS.org

for:
• Membership Dues
• Magazine Subscriptions
• Address/e-mail changes

Contact Dan Clark at treasurer@TAAS.org

P.O. Box 50581
Albuquerque, NM 87181

The Official Newsletter of The Albuquerque Astronomical Society
# 2014 TAAS Board of Directors/Staff

<table>
<thead>
<tr>
<th>Position</th>
<th>Name</th>
<th>Email/Phone</th>
</tr>
</thead>
<tbody>
<tr>
<td>President</td>
<td>Steve Snider</td>
<td><a href="mailto:president@TAAS.org">president@TAAS.org</a></td>
</tr>
<tr>
<td>Vice President / General Meeting Coordinator</td>
<td>David Frizzell</td>
<td><a href="mailto:vp@TAAS.org">vp@TAAS.org</a></td>
</tr>
<tr>
<td>Secretary</td>
<td>Sigrid Monaghan</td>
<td><a href="mailto:secretary@TAAS.org">secretary@TAAS.org</a></td>
</tr>
<tr>
<td>Treasurer</td>
<td>Dan Clark</td>
<td><a href="mailto:treasurer@TAAS.org">treasurer@TAAS.org</a></td>
</tr>
<tr>
<td>Membership Coordinator</td>
<td>Robert Anderson</td>
<td><a href="mailto:membership@TAAS.org">membership@TAAS.org</a></td>
</tr>
<tr>
<td>Education Outreach Coordinator</td>
<td>Tom Graham</td>
<td><a href="mailto:education_coord@TAAS.org">education_coord@TAAS.org</a></td>
</tr>
<tr>
<td>Events Coordinator</td>
<td>Lynne Olson</td>
<td><a href="mailto:events_coordinator@TAAS.org">events_coordinator@TAAS.org</a></td>
</tr>
<tr>
<td>Grants Coordinator</td>
<td>Barry Spletzer</td>
<td><a href="mailto:grants@TAAS.org">grants@TAAS.org</a></td>
</tr>
<tr>
<td>Librarian</td>
<td>Arthur VanDereedt</td>
<td><a href="mailto:librarian@TAAS.org">librarian@TAAS.org</a></td>
</tr>
<tr>
<td>Membership Chair</td>
<td>Robert Anderson</td>
<td><a href="mailto:membership@TAAS.org">membership@TAAS.org</a></td>
</tr>
<tr>
<td>Newsletter Editor</td>
<td>Lynne Olson</td>
<td><a href="mailto:events_coordinator@TAAS.org">events_coordinator@TAAS.org</a></td>
</tr>
<tr>
<td>Observatory Director</td>
<td>Mike Molitor</td>
<td><a href="mailto:gnto@TAAS.org">gnto@TAAS.org</a></td>
</tr>
<tr>
<td>Public Relations</td>
<td>Lynne Olson</td>
<td></td>
</tr>
<tr>
<td>Telescope Loan Coordinator</td>
<td>Jim Fordice</td>
<td></td>
</tr>
<tr>
<td>UNM Observatory Coordinator</td>
<td>Daniel Zirzow</td>
<td></td>
</tr>
<tr>
<td>Volunteer Coordinator</td>
<td>Amy Estelle</td>
<td></td>
</tr>
<tr>
<td>Webmaster</td>
<td>Will Ferrell</td>
<td><a href="mailto:webmaster@TAAS.org">webmaster@TAAS.org</a></td>
</tr>
</tbody>
</table>

| Archivist                                     | Pat Appel                 | 505-292-0463 (H) archivist@TAAS.org |
| ATM Coordinator                               | Ray Collins               | 505-344-9686 (H) atm@TAAS.org      |
| ATM Coordinator                               | Michael Pendley           | 505-238-6060 atm@TAAS.org          |
| Dark Sky Coordinator                          | David Penasa              | 505-277-1141 (W) darksky@TAAS.org  |
| Education Outreach Coordinator                | Tom Graham                | education_coord@TAAS.org          |
| Events Coordinator                            | Lynne Olson               | 505-856-2537 events_coordinator@TAAS.org |
| Grants Coordinator                            | Barry Spletzer            | 505-228-4384 (C) grants@TAAS.org  |
| Librarian                                     | Arthur VanDereedt          | Librarian@TAAS.org               |
| Membership Chair                              | Bob Anderson              | 505-275-1916 membership@TAAS.org  |
| Newsletter Editor                             | Gary Cooper               | 505-227-3974 (C) TAASeditor@gmail.com |
| Observatory Director                          | Mike Molitor              | 505-717-2601 gnto@TAAS.org        |
| Public Relations                              | Lynne Olson               | 505-856-2537 pr@TAAS.org          |
| Telescope Loan Coordinator                    | Jim Fordice               | 505-343-1186 telescope_loans@TAAS.org |
| UNM Observatory Coordinator                   | Daniel Zirzow             | dzirzow at unm dot edu            |
| Volunteer Coordinator                         | Amy Estelle               | 505-730-0025 adestelle2000@yahoo.com |
| Webmaster                                     | Will Ferrell              | webmaster@TAAS.org               |
MEMBERSHIP: You may request a membership application by sending e-mail to membership@TAAS.org or calling (505) 254-TAAS (8227). Applications may also be downloaded from the Web site. Annual dues to The Albuquerque Astronomical Society are $30/year for a full membership and $15/year for a teacher, student (grades K-12), or military membership. Additional family members may join for $5/each (teacher, student and family memberships are not eligible to vote on society matters). New member information packets can be downloaded from the Web site or requested from the TAAS Membership Services Director at membership@TAAS.org. You may send your dues by mail to our newsletter return address with your check written out to The Albuquerque Astronomical Society or give your check to the Treasurer at the next meeting.

MAGAZINES: Discount magazine subscriptions to Sky and Telescope and Astronomy as well as discounts on books from Sky Publishing Corporation are available when purchased by TAAS members through our society. Include any of the above magazine renewal mailers and subscription payments as part of your renewal check. Make checks out to TAAS (we will combine and send one check to the publisher). Warning: publishers take several months to process magazine subscriptions.

ARTICLES/ADVERTISEMENTS: Articles, personal astronomical classified advertisements and business card size advertisements for businesses related to astronomy must be submitted by the deadline shown on the Society calendar (generally the Friday near the new Moon). Rates for commercial ads (per issue) are $120 per page, $60 per half page, $30 per quarter page, $7 for business card size. The newsletter editor reserves the right to include and/or edit any article or advertisement. E-mail attachments in Microsoft Word or compatible word processor; one space between paragraphs is preferred. ASCII and RTF are acceptable. One column is approximately 350 words. Contact the Newsletter Editor at TAASeditor@gmail.com for more information.

Note that the Sidereal Times is no longer mailed. It is posted on the TAAS Web site, www.TAAS.org.

TAAS LIBRARY: Please contact the Librarian at librarian@TAAS.org or 890-8122 to check out a book or make a contribution.

TAAS ON THE WORLD WIDE WEB:

TAAS Web site: http://www.TAAS.org

The TAAS Web site includes:
- Online Sidereal Times
- Educational Outreach
- Programs: TAAS 200, Equipment Trader, Telescope Loaner Program, and more
- SIGs
- Members Guide
- Links to Astronomy Resources and Members’ Blogs

E-mail: TAAS@TAAS.org