General Meeting News
Lynne Olson

TAAS GENERAL MEETING
Saturday, March 15, 7:00 P.M.
Regener Hall on the UNM Campus

Observing the Earth from Space with Landsat
Jeannie Allen
Sigma Space Corporation

THE FIRST LANDSAT satellite blasted into orbit around the Earth in 1972, carrying an extremely sensitive instrument. Its federal mandate was to consistently document lands and coastal regions around the globe at 30-meter resolution, recording reflected light in carefully selected red, green, and infrared wavelengths. It provided an objective, space-based perspective that boosted commercial and scientific innovation and lifted our nation to a leadership position that continues in Earth observations from space.

Our speaker, Jeannie Allen of Sigma Space Corporation, will highlight major features of Landsat, what the satellites

continued on page 2...

The Rockin’ Raven Observatory in Edgewood

I finally have my observatory set up and operating. The insulated prefab building blocks much of the light pollution from Edgewood and Albuquerque, houses my computer for data acquisition, and even more importantly has a warm cot for naps during long periods of computer-controlled imaging.

The photo was taken with a Canon 70D with a f/3.5 10-mm lens, 15-second exposure at ISO 1600.

—Dale Murray
**Turning on the Charm**

*by Amy Estelle*

SINCE I grew up in the South, I know a lot about hospitality. Perhaps that is why I find myself talking with visitors and new members every time I go to GNTO, the TAAS dark-sky observing site. Although I am not a GNTO Opener who has been trained in all aspects of the facility, as a TAAS member I think the least I can do is introduce myself to new people and find out who they are and what their astronomical interests are. After all, I am proud of this facility, TAAS, and the GNTO Committee members who keep the place in tiptop condition. One of the greatest benefits of TAAS membership is access to GNTO.

There are no reserved places at GNTO. First come, first served. So put on your long johns and get out to your observatory. Binoculars, telescopes, and star charts are not required. Bring your folding chair and join in. Whether on your first visit or your hundredth, you will find like-minded people glad to share their starry passion.

The successors of the first Landsat satellite continue to add to the world’s 40+-year, consistent space-based record of change on the Earth’s land surfaces. Every day Landsat provides essential information to help all of us make wise decisions about our resources and our environment. Landsat has seen Mt. St. Helens erupt and recover, given scientists the first detailed map of Antarctica, and watched Las Vegas grow from a baby city into a behemoth. Landsat provides a basis for innovation and other benefits to people and economies worldwide.

Jeannie Allen is a senior remote sensing education specialist for Earth-observing satellite missions with Sigma Space Corp. at NASA Goddard Space Flight Center in Greenbelt, MD. She makes NASA’s research, images, and data accessible for the public, educators, and students through workshops and publications, particularly in partnership with other organizations. She is particularly focused on helping people to integrate Landsat data with Geographic Information Systems (GIS) and other geospatial technologies to solve problems of community concern. Allen has a master’s degree in Biogeography.

This event is free and open to the public. Please visit our website at www.TAAS.org for details and a map to Regener Hall.

---

**STAR PARTY AT THE OPEN SPACE VISITOR CENTER!**

Saturday, March 8

11:00 a.m.–2:00 p.m. and 6:00 p.m.–10:00 p.m.

*by Lynne Olson*

Here is another opportunity to experience the beautiful venue and hospitality of the Open Space Visitor Center, combined with solar observing and stargazing provided by TAAS. This is a very popular event and free and open to the public.

The event is kicked off with a solar observing session led by Roger Kennedy from 11:00 a.m. until 2:00 p.m. in the area surrounding the Center. Solar scopes and information displays will show you amazing things about our nearest star.

Return in the evening at 6:00 p.m. to park (with the help of the excellent Center staff), enjoy indoor and outdoor astronomy demonstrations, make a star chart, and take a look at the telescopes being set up in the large patio area. At 7:00 p.m., Barry Spletzer will give a talk on “The Science of Astrology” in the conference room, which may be repeated later if time allows.

Observing will be taking place throughout the evening with an array of TAAS scopes of all sizes and types on the patio to show off the objects of the night. Kevin McKeown will give a green-laser-guided constellation tour and gladly answer any questions. Please have only red headlamps or flashlight in the observing area to preserve night vision.

TAAS members are encouraged to bring their telescopes and set up before dark; they will be directed to the proper place to unload equipment by the Visitor Center staff. This is a chance to share the skies with the visitors and to learn more about the fine diversity of the scopes of other members.

Please go to www.TAAS.org for more details and a map and send any questions to TAAS@TAAS.org
The Sidereal Times

Under the Dome

Notes from and about GNTO

Mike Molitor

AGAIN, we canceled the March 1 New Moon Event at GNTO due to weather. This time there is probable precipitation in the forecast, so we may receive some welcome rain. Sky conditions are changeable, and it is difficult to obtain accurate predictions 30 to 60 hours in advance. We have been making the decision to hold or cancel an event on Thursday, in order to give members 24 hours notice. If this much advance notice is not required, we can be more precise about holding or canceling an event. Let us know if you have an opinion on how much advance notice you need.

On a more encouraging note, February 23 saw seven members at GNTO. Alan Scott once again was the GNTO Host for this “organic” event. Jim Fordice, Amy Estelle, Julio(?), David and Orion Walz-Burkett with friend Pete rounded out the crew. Ray Collins was hard at work on the Cosmic Café when the observing crew arrived. His next big task is hanging drywall. Reports from Alan and Amy highlighted the following items: Jupiter with 5 bands—2 major and 3 minor—and possibly the Great Red Spot at the edge, and Callisto’s shadow transit; the blazing supernova 10-11 million light-years away in M82; and the many showpieces in the constellation Orion. The zodiacal light was very prominent, and the coyotes and great horned owls called from the Rio Puerco basin. Skies were fair all evening with high thin clouds overhead. Everyone departed about 11:30. GNTO is a great resource for all club members. The facilities are first-rate and the company congenial. Even those without a telescope can join in. Just show up and someone will gladly share photons with you!

The GNTO Committee met February 13, with 9 in attendance including two first-timers. We heard updates on the several ongoing projects. Work on the café continues. Our ISP will update the local radio connection and include improved local Wi-Fi at no charge. Thank you ANR! The electrical distribution system which has grown and changed over time is being documented, and areas for improvement/simplification are being identified. Because of end-of-support issues, computer software and hardware upgrades are in process. The new RA gear for the Isengard telescope is expected to ship from the manufacturer by the end of February. Due to the inclement weather, training for the member-friendly imaging program has been delayed several times. In an advisory vote to the TAAS Board, the Committee does not recommend that Boeing be allowed to conduct applied research using temporary placement of a 20-ft. trailer/container at GNTO. The next GNTO New Moon observing events are: The Messier Marathon March 29, and the backup date for the marathon or TAAS 200 theme

Because of end-of-support issues, computer software and hardware upgrades are in process.

April 26. Remember, these dates are for Saturdays. With the new policy of floating the event between Friday or Saturday, whichever has the better weather forecast, the actual event could be held on the Friday one day before these dates. On Thursday we will post which day the event will be held.

The next GNTO Committee meeting is Thursday, April 3, at North Domingo Baca Multi-Generation Center 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: gnto@TAAS.org. Or, 518-225-7077 (cell); 505-717-2601 (land).

Messier Marathon at GNTO, Spring 2009
### March 2014

<table>
<thead>
<tr>
<th>Sunday</th>
<th>Monday</th>
<th>Tuesday</th>
<th>Wednesday</th>
<th>Thursday</th>
<th>Friday</th>
<th>Saturday</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>4 Duranes Elementary School Star Party</td>
<td>5 ATM</td>
<td>6</td>
<td>7</td>
<td>1 GNTO NM canceled Telescope Tune-Up Day-Explora</td>
</tr>
<tr>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
<td>6</td>
<td>7</td>
<td>8 Open Space Visitor Center: Solar Observing, 11:00–2:00; Star Party 6:00–10:00</td>
</tr>
<tr>
<td>9</td>
<td>10</td>
<td>11</td>
<td>12</td>
<td>13 Board of Directors Meeting</td>
<td>14</td>
<td>15 General Meeting GNTO Spring Cleanup Starry Night at NMMNH&amp;S</td>
</tr>
<tr>
<td>16</td>
<td>17</td>
<td>18</td>
<td>19 ATM</td>
<td>20</td>
<td>21 Explora Adult Night</td>
<td>22</td>
</tr>
<tr>
<td>23 Solar Sunday at NMMNH&amp;S</td>
<td>24</td>
<td>25</td>
<td>26</td>
<td>27</td>
<td>28 Sidereal Times Deadline</td>
<td>29 GNTO NM Observing and Messier Marathon</td>
</tr>
<tr>
<td>30</td>
<td>31</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### TAAS General Meeting

**Saturday March 15, 2014, 7:00 P.M.**
Regener Hall, University of New Mexico

**Observing the Earth from Space with Landsat**

Jeannie Allen
Sigma Space Corporation

---

**Need help with your Telescope?**

Attend the ATM meeting and receive assistance.

First and third Wednesday of the month.

Manzano Mosa Multi-Gen Center
501 Elizabeth St SE, Albuquerque, NM

map is available at www.TAAS.org
April 2014

<table>
<thead>
<tr>
<th>Sunday</th>
<th>Monday</th>
<th>Tuesday</th>
<th>Wednesday</th>
<th>Thursday</th>
<th>Friday</th>
<th>Saturday</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>1</td>
<td>2 ATM</td>
<td>3 GNTO Committee Meeting</td>
<td>4</td>
<td>5 GNTO Observing</td>
</tr>
<tr>
<td>6</td>
<td>7</td>
<td>8 ATM</td>
<td>9</td>
<td>10 Board of Directors Meeting</td>
<td>11</td>
<td>12 General Meeting</td>
</tr>
<tr>
<td>13</td>
<td>14 ATM</td>
<td>15</td>
<td>16 ATM</td>
<td>17</td>
<td>18</td>
<td>19 Bachechi Open Space Star Party</td>
</tr>
<tr>
<td>20</td>
<td>21</td>
<td>22</td>
<td>23</td>
<td>24 Chaco Canyon International Dark Sky Park Designation Celebration</td>
<td>25</td>
<td>26 GNTO NM Observing and Messier Marathon Backup Date</td>
</tr>
<tr>
<td>27</td>
<td>28</td>
<td>29</td>
<td>30</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

The Latest from Solar Outreach: Duranes Elementary

On Monday, March 3, a TAAS outreach crew consisting of Tom Graham, Roger and Linda Kennedy brought the Sun to 463 Duranes Elementary School students and staff. Tom did the classroom presentations, while Roger and Linda did the field work.

For more news of recent and future solar outreach activities, see page 6.
Our Program has just been recognized by the New Mexico Library System STEM Education Committee as exemplary and awarded a grant in support of our efforts to bring world-class solar science to the communities of New Mexico.

Thanks to TAAS volunteers Tom Graham, Dave Ray, Asis Carlos, Robert Katz, Anthony Martinez, Jim Kaminski, John Lanning, Linda and Roger Kennedy, our Solar/Lunar Outreach efforts have reached 5,046 people over the past two months.

Some 257 visitors joined TAAS volunteers Dave Ray, Anthony Martinez, Linda and Roger Kennedy for Darwin Day at the New Mexico Museum of Natural History & Science February 9. The skies and weather were outstanding so we pulled out the TAAS video system to wow the crowd.

TAAS volunteers Dave Ray, Anthony Martinez, Jim Kaminski, Tom Graham, Roger and Linda Kennedy shared a great sunny day with 363 visitors at NMMNH&S during the Presidents’ Day event.

During the next couple of months, our solar outreach volunteers will be involved with several exciting events.

On Saturday, March 8, the first of four scheduled visits to the Open Space Visitor Center off of Coors Blvd. will precede the TAAS night event. Solar scopes and educational poster tables will be set up in front of the center from 11:00 a.m. until 2:00 p.m. The evening program follows, starting at 6:00 p.m.

Saturday, March 22, marks our return to Petroglyph National Monument for an equinox event from 10:00 a.m. until 1:00 p.m. This will be held at the main visitor center off of Unser Blvd.

On Sunday, March 23, Solar Sundays return to the New Mexico Museum of Natural History and Science from 10:00 a.m. until 2:00 p.m. Solar telescopes and educational poster tables will be set up out front by the dinosaurs. The ABC Libraries staff will inform visitors about the upcoming science-themed Summer Reading Program (for which we will be providing solar observations and STEM lessons). UNM’s Department of Meteoritics will set up a table to educate the public about asteroids and meteors. Our host, Jim Greenhouse, has planned many interesting activities as well as opening the observatory 16” Meade telescope with newly installed DayStar ION solar filter.

On Tuesday and Wednesday, March 25-26, our crew will provide students at Cochiti Pueblo School a solar STEM lesson and opportunities to observe the Sun with solar telescopes and the TAAS video system. We will interact with their entire class.
The student body, Pre-K through Grade 8. We have done this in the past, and have always received a warm welcome from their community.

On Friday and Saturday, March 28–29, we travel to the Mescalero Apache STEM Education Conference at the Inn of the Mountain Gods outside of Ruidoso. We will share the Sun with students and teachers and conduct solar STEM lessons.

On Friday and Saturday, April 18–19, we have been invited to participate in a regional New Mexico Science Teachers Association “Spring into Science” conference at Ruidoso High School hosted by Carla Burns, former NM Science Teacher of the Year.

On Sunday, June 22, TAAS will be part of a global program raising awareness of our magnetic Sun. The International SUN-Day event will be coordinated by Steve Ramsden of the Charlie Bates Solar Astronomy Project out of Atlanta, Georgia, and will include over 600 astronomy clubs and interested individuals from around the world. Starting in Australia, each group (at noon local time) will upload event photos and videos to a central Facebook site in recognition of this awareness project. SLOOH, an online network of robotic telescopes, will provide day-long video streaming of the Sun and other solar images produced by participants. TAAS will host or support events at Petroglyph National Monument and the New Mexico Museum of Natural History and Science. All are invited to host your own event or join us at these two locations. See www.solarastronomy.org/sunday/html for more information.

Upcoming in June through August will be our expanded solar outreach programs with the Albuquerque-Bernalillo County and the Sno-Isle Washington Library Systems.
HERE IS A COMBINATION PHOTO I stitched together from different parts of the sky for Winter Open Clusters, from the very close M45, 400 light-years distant, to the Double Cluster in Perseus at 7,000 light-years. Images are: M37, M41, M45, and NGC869 and 884. The weather for February has been too chilly and poor to get any new deep-sky objects. These were taken in 2010 and 2011.

All were imaged with SBIG ST8300M FW5 CCD Camera, iOptron iEQ45 Mount. All except M45 imaged using a AT102ED f/7 refractor, M45 was imaged using the AT72ED f/6.

Autoguided using an SBIG SG-4. All exposures are one minute in length and at least 15 for each Red, Green, and Blue filter. Software: CCDSof V5 and Photoshop Elements V3 and V9.

Location: Near Tijeras and Oak Flat on my backyard patio.

—John Laning
February TAAS Board of Directors Meeting 2/13/2014

The evening BOD meeting of February 13, 2014, was attended by:
Steve Snider, David Frizzel, Sigrid Monaghan, Dan Clark, Tom Graham, Bob Havlen, Amy Estelle, Mike Molitor, Gordon Pegue, Steve Riegel, Roger Kennedy, and Robert Anderson.
Directors absent: Lynne Olson

The meeting was also attended by Lisa Wood a current member of TAAS.

The Agenda and Minutes were voted, seconded, and approved by majority.

Under the Committees' Reports:

Education -
The Stapleton Star Party for February was cancelled due to inclement weather and has not been rescheduled at this time.
Next School Star Party is scheduled for March 4, 6 -8:30 p.m. at the Duranès Elementary School located near Rio Grande and Indian School.

Finance -
A Treasurer's Report with the breakdown of Accounts Summary and Funds Details was presented including final report of the Perihelion Banquet expenditures and receipts. A transfer of $5,000 from Special Projects to the General Fund was discussed and approved.

GNTO -
• The GNTO Committee meets 6 times a year, every other month. The next meeting is April 3.
• The interior of the GNTO kitchen/dining building is expected to be sufficiently complete so that it can open in time for the Messier Marathon. The name "Cosmic Café" has been adopted without objection.

• A licensed contractor will be hired to add line from the propane tank to the café. At the request of the Board, an inquiry will be made as to the cost of an electrical system survey and inspection for insurance purposes.
• The Wi-Fi upgrades are expected to begin in late February, and the equipment for the Isengard Right Ascension Gear upgrade is expected to arrive in late February.
• Computer upgrades are partially completed.
• Cleanup of the GNTO site is scheduled for March 15.
• There will be no scheduled picnic March 22.

Membership -
• Discussion on sending out 2-month advance notice for membership renewal by e-mail and/or regular mail.
• Discussion on should we do an exit interview.
• Suggestions for doing a survey to gather information from the membership as to their thoughts on what TAAS could and should be doing in the future. This would provide important information for strategic planning purposes.

Future Activities -
• Telescope Tune-Up Day at Explora March 1: 11 a.m.–3 p.m.
• Open Space Visitor Center Star Party March 8: 6 p.m.–10 p.m.
• Bachechi Open Space Star Party w/103.7 Oasis April 18: 6 p.m.–10 p.m.
• Chaco Canyon Special Dedication Ceremony and Star Party April 24–26

Old Business
• Discussion of Strategic Planning—What we will look like as an organization in 5 years including activities, increased membership, equipment, and monies.
• Plans to see more activity at the GNTO.
• Collaboration with other Astronomy Groups.

New Business
The Boeing Proposal -
• Mike Molitor reported that a large majority of those present at the February 6 GNTO Committee meeting voted against Boeing's request to put a portable trailer at GNTO and to operate it remotely.
• Questions raised included:
Could we approach Boeing about making a donation to TAAS? There is nothing prohibiting us in asking and accepting.

Concern was raised by members of the Board and Lisa Wood as to the military aspects of Boeing doing their research experiments at a TAAS location.

It was decided that we need more information and that the proposal should be documented for the Board's consideration.

• A subcommittee of 5 Board members was formed to obtain the necessary information and report back. The subcommittee should include at least one member with a science background. Mike Molitor, Amy Estelle, David Frizzell, Bob Havlen, and Tom Graham have volunteered for this project.

continued on page 10 . . .
The weather hasn’t been cooperating lately, so here’s an image taken last year. The “Bubble Nebula,” NGC 7635, captured on 10-2-13 in my light-polluted Albuquerque backyard. The Bubble Nebula is an HII emission region located in Cassiopeia near the open cluster M52. The hydrogen is excited by a hot, young star, SAO 20575, visible in the “bubble.”

14 x 10-min subs taken with an SBIG 4000XCM camera mounted on a Celestron 11” HD with focal reducer and an IDAS LP2 light-pollution filter.

The focal length of the telescope, with the focal reducer is 1960 mm. The camera’s 15.2-mm square chip yields a crop factor of 2.01, so that the effective focal length, compared with a 35-mm camera, is 3940 mm.

The mount was a Losmandy G11. Processing was done in DSS and Photoshop.

—Vance Ley

Meeting Minutes continued from page 9

BOD Remarks/Discussion -

- There was a unanimous vote to use “Observe - Educate - Have Fun” as TAAS’s official slogan.

- June 22nd is International Sun-Day. Do we want to do something special: possibly at the Petroglyphs?

Meeting was voted to adjourn and seconded.
Welcome to New and Returning TAAS Members

Feroza Jussawala
Darshan Singh Kahalasa

Donations to TAAS

GENERAL
David Sanchez

GNTO
Paul Lin

DARK SKY
Milton Bock Linda Hixon Esteban Muldavin

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
  Longitude
  36° 01’ 50”N    107° 54’ 36”W
  36.03’     -107.91’
  36° 1.83’     -107° 54.60’

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

- UNM Campus Observatory
  5180’ elevation
  Longitude
  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.

Editor’s Note

The deadline for the next issue of The Sidereal Times is Friday March 28. 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

Explanation 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

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
### 2014 TAAS Board of Directors/Staff

<table>
<thead>
<tr>
<th>Position</th>
<th>Name</th>
<th>Email/Contact Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>President</td>
<td>Steve Snyder</td>
<td><a href="mailto:president@TAAS.org">president@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>Director / Membership Coordinator</td>
<td>Robert Anderson</td>
<td><a href="mailto:membership@TAAS.org">membership@TAAS.org</a></td>
</tr>
<tr>
<td>Director / 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>Director / Solar Outreach</td>
<td>Roger Kennedy</td>
<td>303-314-6273</td>
</tr>
<tr>
<td>Director / Events Coordinator / Public Relations</td>
<td>Lynne Olson</td>
<td><a href="mailto:pr@TAAS.org">pr@TAAS.org</a></td>
</tr>
<tr>
<td>Director</td>
<td>Steve Riegel</td>
<td>505-274-3362</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>Treasurer</td>
<td>Dan Clark</td>
<td><a href="mailto:treasurer@TAAS.org">treasurer@TAAS.org</a></td>
</tr>
<tr>
<td>Director / Volunteer Coordinator</td>
<td>Amy Estelle</td>
<td><a href="mailto:adestelle2000@yahoo.com">adestelle2000@yahoo.com</a></td>
</tr>
<tr>
<td>Education Outreach Coordinator</td>
<td>Bob Havlen</td>
<td></td>
</tr>
<tr>
<td>Director / Observatory Director</td>
<td>Mike Molitor</td>
<td><a href="mailto:gnto@TAAS.org">gnto@TAAS.org</a></td>
</tr>
<tr>
<td>Director</td>
<td>Gordon Pegue</td>
<td>gipegue at comcast dot net</td>
</tr>
</tbody>
</table>

### Staff Consultation

<table>
<thead>
<tr>
<th>Position</th>
<th>Name</th>
<th>Email/Contact Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Archivist</td>
<td>Pat Appel</td>
<td>505-292-0463 (H) <a href="mailto:archivist@TAAS.org">archivist@TAAS.org</a></td>
</tr>
<tr>
<td>ATM Coordinator</td>
<td>Ray Collins</td>
<td>505-344-9686 (H) <a href="mailto:atm@TAAS.org">atm@TAAS.org</a></td>
</tr>
<tr>
<td>Dark Sky Coordinator</td>
<td>David Penasa</td>
<td>505-277-1141 (W) <a href="mailto:darksky@TAAS.org">darksky@TAAS.org</a></td>
</tr>
<tr>
<td>Education Outreach</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>505-856-2537 <a href="mailto:events_coordinator@TAAS.org">events_coordinator@TAAS.org</a></td>
</tr>
<tr>
<td>Grants Coordinator</td>
<td>Barry Spletzer</td>
<td>505-228-4384 (C) <a href="mailto:grants@TAAS.org">grants@TAAS.org</a></td>
</tr>
<tr>
<td>Librarian</td>
<td>Arthur VanDereedt</td>
<td><a href="mailto:librian@TAAS.org">librian@TAAS.org</a></td>
</tr>
<tr>
<td>Membership Chair</td>
<td>Bob Anderson</td>
<td><a href="mailto:membership@TAAS.org">membership@TAAS.org</a></td>
</tr>
<tr>
<td>Newsletter Editor</td>
<td>Gary Cooper</td>
<td>505-227-3974 (C) <a href="mailto:TAASeditor@gmail.com">TAASeditor@gmail.com</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><a href="mailto:pr@TAAS.org">pr@TAAS.org</a></td>
</tr>
<tr>
<td>Telescope Loan Coordinator</td>
<td>Barry Spletzer</td>
<td><a href="mailto:telescope_loans@TAAS.org">telescope_loans@TAAS.org</a></td>
</tr>
<tr>
<td>UNM Observatory Coordinator</td>
<td>Daniel Zirzow</td>
<td><a href="mailto:unm_coord@TAAS.org">unm_coord@TAAS.org</a></td>
</tr>
<tr>
<td>Volunteer Coordinator</td>
<td>Amy Estelle</td>
<td><a href="mailto:adestelle2000@yahoo.com">adestelle2000@yahoo.com</a></td>
</tr>
<tr>
<td>Web Master</td>
<td>Will Ferrell</td>
<td><a href="mailto:webmaster@TAAS.org">webmaster@TAAS.org</a></td>
</tr>
</tbody>
</table>
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. The editor’s e-mail address is TAASeditor@gmail.com.

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:

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