

Enchanted Skies Star Party Schedule

Tuesday, October 17, 2017

FOOD: Green's Kitchen will be at Star Village for **DINNER ONLY**.

- **1pm** – Arrive at "Star Village;" pick up party packet at Welcome Tent
- **7pm** – Entry gate to Star Village closes
- **All Night** - Dark, dark sky observing at "Star Village"

Wednesday, October 18, 2017

FOOD: Green's Kitchen will be on-site for Breakfast, Lunch & Dinner. To pre-order a Green's Kitchen Box Lunch, please call Julie Green at 575-418-1291. (See this file for other Magdalena Restaurant options)

- **11am** – Arrive at "Star Village;" pick up party packet at Welcome Tent

For VLA and MRO tours you must pre-arrange participation by contacting Cathi Havens (email cathie@sandsoptika.com, please put "ESSP" in subject line), First 30 only.

- **1pm** – Car Caravan to Karl G. Jansky Very Large Array (VLA) from Star Village (first 30 pre-arranged participants ONLY)
Food is not available at the VLA, bring your own or order a box lunch (see FOOD note above). Sodas, water, snacks available at the VLA gift shop.
- **1:30pm – 4pm** – VLA VIP tour (first 30 pre-arranged participants ONLY)
- **2:00pm** – Briefing and Required Safety Lecture for trip to Magdalena Ridge Observatory (MRO) at Star (Village) (first 30 pre-arranged participants ONLY)
- **2:30pm** – Car Caravan to MRO from Star Village
Food is not available at the MRO, bring your own food or early order a box lunch (see FOOD note above); water and toilets available up top! Dress WARM and in layers!
- **3:30pm** – Arrive at MRO
- **3:45pm – 6pm** – Tours of the 2.4-Meter telescope and interferometer (first 30 pre-arranged participants (ONLY) (
- **6:30pm** – set up for observing at top of South Baldy @ 10,600ft elevation (first 30 pre-arranged participants ONLY).
Astrophotography techniques demonstration and help with your equipment provided by Coleen Gino
- **7pm** – Entry gate to Star Village closes
- **10:30pm** – Car Caravan down the mountain OR stay all night (first 30 pre-arranged participants only)
- **All Night** - Dark, dark sky observing at "Star Village" or overnight at MRO (first 30 pre-arranged participants only)

Thursday, October 19, 2017

FOOD: Green's Kitchen will be on-site for Breakfast, Lunch & Dinner. To pre-order a Green's Kitchen Box Lunch, please call Julie Green at 575-418-1291. (See this file for other Magdalena Restaurant options)

- **11am** – Arrive at "Star Village;" pick up party packet at Welcome Tent

For VLA and MRO tours you must pre-arrange participation by contacting Cathi Havens (email cathie@sandsoptika.com, please put "ESSP" in subject line), First 30 only. (

- **1pm** – Car Caravan to Karl G. Jansky Very Large Array (VLA) from Star Village (first 30 pre-arranged participants ONLY)
Food is not available at the VLA, bring your own or order a box lunch (see FOOD note above). Sodas, water, snacks available at the VLA gift shop.
- **1:30pm – 4pm** – VLA VIP tour (first 30 pre-arranged participants ONLY)
- **2:00pm** – Briefing and Required Safety Lecture for trip to Magdalena Ridge Observatory (MRO) at Star Village (first 30 pre-arranged participants ONLY)
- **2:30pm** – Car Caravan to MRO from Star Village
Food is not available at the MRO, bring your own food or early order a box lunch (see FOOD note above); water and toilets available up top! Dress WARM and in layers!
- **3:30pm** – Arrive at MRO
- **3:45pm – 6pm** – Tours of the 2.4-Meter telescope and interferometer (first 30 pre-arranged participants (ONLY)
- **6:30pm** – set up for observing at top of South Baldy @ 10,600ft elevation (first 30 pre-arranged participants ONLY)
- **7pm** – Entry gate to Star Village closes
- **10:30pm** – Car Caravan down the mountain OR stay all night (first 30 pre-arranged participants only)
- **All Night** - Dark, dark sky observing at "Star Village" or overnight at MRO (first 30 pre-arranged participants only)

Friday, October 20, 2017

FOOD: Green's Kitchen will be on-site for Breakfast, Lunch & Dinner. (See this file for other Magdalena Restaurant options)

- **11am** – Welcome table opens at Star Village
- **1pm-4pm Simultaneously, at Star Village OR Astronomical Lyceum in Magdalena** – Astronomy Camp at Star Village or Intermediate talks at the Lyceum
- **4:45pm-6pm** – On-site equipment presentation by John Briggs (up on RV Hill)
- **6:30pm** – Sweet Treats sponsored by ESSP at Star Village! Gather in the Welcome Tent.
- **7pm** - Entry Gate to Star Village closes
- **7 – 8pm** – Assisted Observing

- **8 - 9pm** – Green Laser Tour
- **9pm – 11pm** – Assisted Observing
- **All Night** - Dark, dark sky observing at “Star Village”

Saturday, October 21, 2017

FOOD: Green’s Kitchen will be on-site for Breakfast, Lunch & Dinner. (See this file for other Magdalena Restaurant options)

- **11am** – Welcome table opens at Star Village
- **1pm-4pm Simultaneously at Star Village OR Astronomical Lyceum in Magdalena** – Astronomy Camp Star Village or Intermediate talks at the Lyceum
- **5pm-7pm** - Gate open for Saturday Night Only registrants. Cash only. \$15 per adult.
- **5pm at Star Village**– Door prize drawings (**those holding \$40 or up registration ONLY are eligible for door prizes**) and raffle drawings at Star Village (**MUST BE PRESENT TO WIN!**)
- **6:30pm** – Star Talkers
- **7pm** - Entry Gate to Star Village closes
- **8pm** – Green Laser Tour
- **9pm – 11pm** – Assisted Observing
- **All Night** - Dark, dark sky observing at “Star Village”

Sunday, October 22, 2017

FOOD: Green’s Kitchen will be on-site for Breakfast. (See this file for other Magdalena Restaurant options)

10am-1pm - Open House at the Astronomical Lyceum, 402 South Main Street, Magdalena. The Astronomical Lyceum is a laboratory, museum, library, archive, and lecture hall that serves also as a home, meeting, and work place for the Magdalena Astronomical Society, Inc. Activities relate to astronomical research, education, and engineering, including telescope making and refurbishment. A special focus is on history of astronomy and related instrumentation.

ESSP Speaker's Schedule for the Astronomical Lyceum October 20-22, 2017

Version 9/13/2017

Friday, October 20, 2017

1:00 PM Doors open at the Astronomical Lyceum, 402 South Main Street, Magdalena. Seating will be available for only the first 50 people.

1:15 PM **The TAAS Fabulous 50: A Beginner's View of the Autumn Sky**, by Dee Friesen of The Albuquerque Astronomical Society. The presentation will include a Sky Map and instructions on how to use the map to locate the most prominent of autumn constellations, bright stars and a few Messier Objects. For background information on this popular program of the Albuquerque Astronomical Society, see <http://www.taas.org/Fab50/>

2:00 PM Break

2:15 PM **CONSTELLATIONS: Origins to Resolution**, by Dr. WP (Phil) Fleming. Dr. Phil is an active member of The Albuquerque Astronomical Society and writes, "Our present-day constellational sky is a practical, but stagnant, human creation parsed into jigsaw-like pieces fixed nearly a century ago by the International Astronomical Union. This lecture, designed to appeal to novice stargazers and professional astronomers alike, will highlight the trail measured in millennia of storytelling, folklore, art, cartography, religion, politics, and astronomical science resulting in the originations, winnowing, and ultimate establishment of our rich heritage embodied in the final 88 pictures of the night sky."

3:00 PM Break

3:15 PM **Using the Wonderful, Free, Stellarium Desktop Planetarium Software**, by John W. Briggs of TASS and the Magdalena Astronomical Society. The program will demonstrate the wonderful, easy-to-use & enjoy power of one of the greatest astronomy educational tools in the world.

4:00 PM Adjourn and return to the "Star Village" campsite of ESSP.

Saturday, October 21, 2017

1:00 PM Doors open at the Astronomical Lyceum, 402 South Main Street, Magdalena. Seating will be available for only the first 50 people.

1:15 PM Beginning/Intermediate Astro Imaging with Emphasis on the Sony A7s Camera, by Dan Llewellyn, Deerlick Astronomy Village, Georgia. Dan writes:

"Come join the Sony revolution! Recent advancements in sensor technology have made their way to consumers and are changing the way astrophotography is done. Sony cameras, besides being cutting-edge, are also less expensive than traditional dedicated astronomy cameras and have tremendous benefits, including being able to be used in the day as your regular camera.

"The Sony A7s, modified and cooled, is the new king of deep sky. Tired of being in the guiding/guide scope/guide camera trap? Or having to purchase an expensive mount to guarantee long exposure guiding? This can be eliminated. Tired of making due with small-chip cameras because of the cost? No more, get a modified, cooled full-frame sensor camera for around \$3,000 and go wide, way wide. Can't put the object on your small-chip camera, so you waste a lot of time hunting? Full-frame sensors assist tremendously in finding that object and centering it up. Tired of wasting time taking a picture to focus, then download, then make a focuser adjustment, then take a picture, then download.... All this is eliminated with real-time focusing. Got an expensive focuser? No need, I have always been able to focus with the live screen due to the sensor's incredible sensitivity. This extends to focusing native at 4 meters on a Celestron Edge 14 telescope without a Crayford focuser. A rotator is not needed, because a manual rotation system is included in the kit purchase. The greatest challenge is determining how long you can go before you are sky-glow limited. This can be as short as 5 seconds on bright objects, and usually no more than 2 minutes on dimmer ones. With proper polar alignment, most modest mounts can image for 30, 60, or 90 seconds unguided depending on focal length. Premium mounts will allow longer. Periodic error in your mount? Because you are literally taking as many shots as you want in one night, throw the ones out that have a slight bump.

Dan Llewellyn has been a planetary & deep-sky imager for over 17 years. He authored an article in the April, 2014, issue of *Sky & Telescope* entitled "Redeeming Color Planetary Cameras." His images have been featured in *Sky & Telescope*, *Photonics Spectra*, *The Atlanta Journal & Constitution* (Picture of the year 2010), and by the Association of Lunar and Planetary Observers (ALPO), The Astronomical League, *Journal of the British Astronomical Association*, and Fernbank Science Center. Dan has given lectures at NEAIC (Northeast Astro-Imaging Conference), Georgia Tech, ALPO and ALCON conferences, The Peach State Star Gaze, Mid-South Star Gaze, Chiefland Star Party, the Atlanta Astronomy Club and at DragonCon in the Science Trek. Dan is also the founder and former owner of Telescope Atlanta. He can not only image, but he is pretty good with his hands too, as he built and manufactured the T1 ultralight goto Dobsonian, one of the lightest such telescopes ever commercially made. Dan also received the Lenny Abbey Service Award (the highest award from the Atlanta

Astronomy Club) for his contributions in getting people started in planetary and deep-sky imaging. Dan currently serves as the director of the Imaging Symposium at the Peach State Star Gaze.

2:15 PM Break

2:30 PM **Astro Image Processing**, by Colleen Gino.

3:30 PM **Recent Imaging Results from the CoSMO Astrograph at Magdalena's FOAH Observatory**, by John W. Briggs, presenting for Rick Thurmond's CoSMO Team. Beautiful wide-field color images have resulted from the 2017 installation of Rick Thurmond's Coyote Skies Mobile Observatory at Magdalena's FOAH Observatory site. Briggs will briefly share the team's results and describe some of the technical problems overcome to allow the current level of remote-access operation.

4:00 PM Adjourn and return to the "Star Village" campsite of ESSP.

Sunday, October 22, 2017

10:00 AM - 1:00 PM, **Open House** at the Astronomical Lyceum, 402 South Main Street, Magdalena. The Astronomical Lyceum is a laboratory, museum, library, archive, and lecture hall that serves also as a home, meeting, and work place for the Magdalena Astronomical Society, Inc. Activities relate to astronomical research, education, and engineering, including telescope making and refurbishment. A special focus is on history of astronomy and related instrumentation.