

## THURSDAY

RTMC opens Noon Thursday to those who want to setup early or get some extended camping and observing.

# RTMC

ASTRONOMY EXPO

# 2018 Schedule of Events

## FRIDAY

Sunrise **VENDOR SALES BEGIN** // Some may still be setting up.

■ **11:30 to 2:00 LUNCH / 4:30 to 6:00 DINNER** // Selection available at the outside Cantina at the back of the Main Hall. Cash only, about \$4-\$10.

1 to 4 ★ **REGISTRATIONS** ★ Telescope Merit Awards // Astro Images Awards  
At the Info Booth and the Image Booth, respectively—both in front of the Main Hall  
// Registration resumes Saturday, 8:30–Noon for scopes & until 10 for images.

4:00 **AN ATM 36" FOLDED REFLECTOR** // Tom Taylor & Mike Spooner // Main Hall

7:00+ **EVENING PROGRAM** // Starts in the Main Hall with a presentation by Tim Hunter on *My Life and Hard Times in Amateur Astronomy* followed by your Show & Tell of image(s), especially of the 2017 Solar Eclipse, short movies, or PowerPoint—5 minute limit. See sidebar at right ▶

**SUNSETS**  
≈ 7:52 PM  
**SUNRISES**  
≈ 5:37 AM

## SATURDAY

Dawn+ ★ **SWAP MEET** ★ to 1:00 // Outside in front of Main Hall

■ **7:30 BREAKFAST** // Selection available until 9:30 at the outside Cantina—back of the Main Hall. Cash only, \$2-\$6.

8:30+ ★ **REGISTRATIONS** ★ Telescope Merit Awards (to Noon) // Astro Images Awards (to 10)  
At the Info Booth and the Image Booth (tents), respectively—both in front of the Main Hall

9:00 **OPENING REMARKS / ANNOUNCEMENTS** // Main Hall

9:00 to 10:30 **BEGINNER'S TALK: TELESCOPES: REFRACTORS, REFLECTORS & CATADIOPTRICS**  
// Bill Patton // Bose Lodge

10:00 **EDWARD EMERSON BARNARD: THE WORLD'S GREATEST OBSERVER OF HIS TIME, 19TH CENTURY ASTRONOMER AND ASROPHOTOGRAPHY PIONEER**  
// Matthew Ota // Main Hall

10:00+ ★ **ASTRO IMAGE VOTING** ★ **VOTE until 3 PM** • *Please stop in and vote!*  
// Image Booth (tent) in front of the Main Hall // Awards Saturday Night

10:30 to Noon **BEGINNER'S TALK: EYEPIECES EXPLAINED** // Joe Jakoby // Bose Lodge

11:00 **A UNIVERSE OF STARS** // Tim Thompson // Main Hall

11:00 **TMRO PODCAST** // Jared Head // Annex

■ **11:30 to 2:00 LUNCH** // Selection available at the outside Cantina—back of the Main Hall. Cash only, about \$4-\$7.

1:00 **UPDATE ON THE MARS ROVERS** // Dr. Tim Parker // Main Hall

1:00 to 2:30 **BEGINNER'S TALK: EXPLORING THE UNIVERSE WITH BINOCULARS**  
// Matt Wedel // Bose Lodge

1:15 **CHILDREN'S FUN: WALK THE SOLAR SYSTEM** // Ken Graun // Meet in front of Bose Lodge

2:00 **THE BARNARD OBJECTS—IN COLOR** // Tim Hunter // Main Hall

2:00 **PRODUCT DEMONSTRATION** // David Ho // Annex

2:30 to 3:30 **BEGINNER'S TALK: SELECTION AND USE OF FILTERS FOR BEGINNERS**  
// Paul Livio // Bose Lodge

3:00 **A DIFFERENT APPROACH TO BUILDING ASTRONOMICAL BINOCULARS**  
// Peter Wraight // Main Hall

4:00 **THE ASSOCIATION OF LUNAR AND PLANETARY OBSERVERS . . . PAST, PRESENT AND FUTURE**  
// Tim Robertson // Main Hall

3:30 to 4:30 **BEGINNER'S TALK: MAKING A REFLECTOR TELESCOPE** // Ken Graun // Bose Lodge

■ **4:30 to 6:00 DINNER** // Selection available at the outside Cantina—back of the Main Hall. Cash only, about \$6-\$10.

6:00+ **EVENING PROGRAM** // Starts at Main Hall — See sidebar at right ▶

## SUNDAY

Dawn+ ★ **SWAP MEET** ★ to 1:00 // Outside in front of Main Hall

■ **7:30 BREAKFAST** // Selection available until 9:30 at the outside Cantina—back of the Main Hall. Cash only, \$2-\$6.

8:30 to 9:45 **WAA BOARD MEETING** // Bose Lodge

9:00 ★ **CHURCH SERVICES** ★ (Nondenomination) // Outdoor Chapel north of Bose Lodge  
// In case of inclement weather, go to the Annex room inside the Main Hall building.

10:00+ **PREMIUM ASTRO-IMAGING WORKSHOP with Bryan Cogdell**  
● Additional fee applies. ● Register at RAS booth.  
● 10AM to 4PM with lunch break ● Annex room inside of the Main Hall building

10:00 **THE RTMC: A 50 YEAR MEETING AND STAR PARTY** // Robert Stephens // Main Hall

10:15 to 11:30 **BEGINNER'S TALK: CHARLES MESSIER AND HIS OBJECTS** // Ken Graun // Bose Lodge

11:00 **THE DISCOVERY OF A COMET FROM RTMC** // Don Machholz // Main Hall

11:30 **GALILEO: THE LITTLE PLANETARY OBSERVATION SPACECRAFT THAT COULD**  
// Michael Fene // Main Hall

■ **11:30 to 2:00 LUNCH** // Selection available at the outside Cantina—back of the Main Hall. Cash only, about \$4-\$7.

1:00 **RTMC AND COMETS: LOOKING BACK, LOOKING AHEAD** // Alan Hale // Main Hall

1:00 to 2:30 **BEGINNER'S TALK: TELESCOPE & EYEPIECE OVERVIEW** // Joe Jakoby // Bose Lodge

1:15 **CHILDREN'S FUN: WALK THE SOLAR SYSTEM** // Ken Graun // Meet in front of Bose Lodge

2:00 **BUILDING OF THE PALOMAR OBSERVATORY** // Dorothy Wood // Main Hall

2:30 to 3:00 **BEGINNER'S TALK: HISTORY AND DEVELOPMENT OF THE REFRACTOR TELESCOPE**  
// Martin Carey // Bose Lodge

3:00 **CHILDREN'S FUN: Immediately follows the 2:30 talk by Martin Carey above. Starts with KIDS MAKING A REFRACTOR TELESCOPE and ends with DESSERTS & DOOR PRIZES OF THE UNIVERSE** // Bose Lodge

3:00 **HOW TO TAKE STUNNING LANDSCAPE ASTROPHOTOS** // Wally Pacholka // Main Hall

4:00 **ASTRO-IMAGING WITH A MODIFIED CANON 6D FULL FRAME DSLR—GREAT RESULTS IN 3 MINUTES OR LESS** // Alan B. Gorski // Main Hall

■ **4:30 to 6:00 DINNER** // Selection available at the outside Cantina—back of the Main Hall. Cash only, about \$6-\$10.

6:00+ **EVENING PROGRAM** // Starts at Main Hall — See sidebar at right ▶

## MONDAY MORNING

◆ **TEAR DOWN AND CLEAN UP.** *Please* police your own area. Have a safe trip home.  
■ **Coffee available at the Main Hall.** *Thanks and see you next year!*

## FRIDAY EVENING EVENTS

### FRIDAY NIGHT SPEAKER Main Hall • 7:00

*My Life & Hard Times in Amateur Astronomy*

◆ **Tim Hunter** ◆

### Announcements / Show & Tell Main Hall • 8:00

SHARE YOUR 2017 ECLIPSE PICTURES!

### A Tour of the Constellations in the Night Sky

Begins at 8:30 at the Outdoor Chapel north of Bose Lodge—family oriented.

### Star Party

Enjoy viewing through telescopes throughout the grounds, especially those located at the Telescope Field and the Grassy Area across from Bose Lodge. Almost everyone will share a view through their scope—just ask.

### FRIDAY AND SATURDAY EVENINGS HANDS-ON ACTIVITIES ON THE TELESCOPE FIELD

- 1 Bring your phone to photograph the Moon through a telescope.
- 2 Bring a camera that you can set to Manual mode—mount it on our pre-pointed tripod, and capture geostationary satellites.
- 3 Watch arboreal occultations on the ridgelines.

## SATURDAY EVENING EVENTS

■ Begins at 6:00 PM ■

### Festival of Announcements at the Main Hall, including DOOR PRIZES.

- ◆ **Telescope Merit Awards** ◆
- ◆ **Astro Imaging Awards** ◆
- ◆ **Clifford W. Holmes Award** ◆
- ◆ **G. Bruce Blair Medal** ◆
- ◆ **Warren Estes Memorial Award** ◆

Sit inside the Main Hall or bring your chairs to sit out front. TICKETS for DOOR PRIZES distributed during announcements. You *must* be present in and around the Main Hall to win DOOR PRIZES.

### KEYNOTE SPEAKER

Main Hall • After Announcements

*A Nightwatchman's Journey:  
My Life as a Skywatcher*

◆ **Dr. David H. Levy** ◆

### A Tour of the Constellations in the Night Sky

Begins at 8:30 (or after the Keynote Speaker) at the Outdoor Chapel north of Bose Lodge—family oriented.

### Beginner's Corner Star Party

In front of Bose Lodge. Hosted by the San Bernardino Valley Amateur Astronomers. Two large scopes!

### Star Party

Enjoy viewing through telescopes throughout the grounds, especially those located at the Telescope Field and the Grassy Area across from Bose Lodge. Almost everyone will share a view through their scope—just ask.

## SUNDAY EVENING EVENTS

### SUNDAY NIGHT SPEAKER Main Hall • 6:00

*To Boldly Go . . . Well, You Know:  
NASA's Dawn Mission to the Asteroid Belt*

◆ **Dr. Marc Rayman** ◆

### Festival of Announcements

Including DOOR PRIZES

Main Hall • 7:00 (or after Speaker)

Sit inside the Main Hall or bring your chairs to sit out front. TICKETS for DOOR PRIZES distributed during announcements. You *must* be present in and around the Main Hall to win DOOR PRIZES.

### Star Party

Enjoy viewing through telescopes throughout the grounds, especially those located at the Telescope Field and the Grassy Area across from Bose Lodge. Almost everyone will share a view through their scope—just ask.

See Family & Children activities on the reverse side

Please, no white lights or white flashlights. RED FLASH-LIGHTS ONLY. Red cellophane available at Info Booth.

Astro Image Voting to 3 PM TENT IN FRONT OF MAIN HALL