



Badlands Astronomy Festival 2018 Schedule of Events

Friday, July 6

- 2:00 p.m. **Astrophotography Workshop** – *meet at Ben Reifel Visitor Center*
- 3:00 – 5:00 p.m. **Sun Fun Solar Observing** – *outside Ben Reifel Visitor Center*
- 7:30 p.m. **Guest Speaker:** Black Hills Raptor Center – *Cedar Pass Amphitheater*
- 10:00 – 11:30 p.m. **Telescope Viewing** – *Cedar Pass Campground Group Loop*

Saturday, July 7

- 9:00 a.m. – 2:00 p.m. **Planetarium Shows** – *Interior School Gym*
- 2:00 p.m. **Astrophotography Workshop** – *meet at Ben Reifel Visitor Center*
- 3:00 – 5:00 p.m. **Sun Fun Solar Observing** – *outside Ben Reifel Visitor Center*
- 9:00 p.m. **Guest Speaker:** Paul Ricketts, University of Utah – *Cedar Pass Amphitheater*
- 10:00 – 11:30 p.m. **Telescope Viewing** – *Cedar Pass Campground Group Loop*

Sunday, July 8

- 9:00 a.m. – 2:00 p.m. **Planetarium Shows** – *Interior School Gym*
- 3:00 – 5:00 p.m. **Sun Fun Solar Observing** – *outside Ben Reifel Visitor Center*
- 9:00 p.m. **Guest Speaker:** Kevin Poe, Dark Ranger – *Cedar Pass Amphitheater*
- 10:00 – 11:30 p.m. **Telescope Viewing** – *Cedar Pass Campground Group Loop*

Planetarium Shows

Saturday, July 7; and Sunday, July 8

9:00 a.m. - 2:00 p.m. at the Interior School Gym, 2 miles south of the Ben Reifel Visitor Center
The South Dakota Discovery Center from Pierre will present planetarium shows using their portable planetarium.

Astrophotography Workshop

Friday, July 6; Saturday, July 7

2:00 p.m. at the NPS Conference Room, meet at the Ben Reifel Visitor Center
Badlands Ranger Ed Welsh and Richard Walker from the Black Hills Astronomical society will present a workshop on taking photos of starry night skies and familiarizing participants with camera settings to use later that night. A DSLR camera, or any camera where the shutter speed can be changed to 20-30 seconds, along with a tripod is recommended.

Sun Fun Solar Observing

Friday, July 6; Saturday, July 7; and Sunday, July 8

3:00-5:00 p.m. at the Ben Reifel Visitor Center

View solar flares and sunspots through our special solar telescopes, 100% safe for eyes. Various other sun based activities will also be offered during this particular event.

Evening Programs/Public Stargazing

Friday, July 6; Saturday, July 7; and Sunday, July 8

7:30p.m. (Fri)/9:00 p.m. (Sat, Sun) - 11:30 p.m. at the Cedar Pass Campground Amphitheater
Nightly evening presentations will be provided by invited guest speakers followed by hands-on experience with multiple state-of-the-art telescopes and amateur astronomers providing constellation tours while guiding visitors around the universe. View planets, star clusters, nebulae, and double stars while going down the "scope line."

7:30 p.m. Friday night guest speaker: Black Hills Raptor Center, Owls

9:00 p.m. Saturday night guest speaker: Paul Ricketts, University of Utah

9:00 p.m. Sunday night guest speaker: "Dark Ranger" Kevin Poe, Dark Ranger Telescope Tours

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