

Meeting Minutes

Date: October 18, 2017

By: Jean Davids, Secretary Monticello Camera Club

The meeting began shortly after 7 pm and was presided over by Jean Davids. There were 17 members in attendance, one of which joined that night.

Our assignment for this month was Minimalism. We had 6 members share their photos. Thank you all for sharing your great images with us.

Bob Somerville talked about the 2018 Monticello Photo Show. The 15th and Final Photo Show will be held at the Best Western on March 17th-18th, 2018. It has been confirmed with them. It is a smaller room so we'll only have space at the ends of the room for displays. This probably means just camera club displays. Two items were discussed. Jean Davids asked if there was a way to return the category Swans into the mix as we started 15 years ago with Monticello Swans and it seemed fitting to put it back in there in the name somewhere. Since Animals/Other includes birds, we all agreed to just change that category to Animals/Other/Swans. Here is the list of categories for 2018.

Action/Motion, Animals/Mammals, Animals/Other/Swans, Architectural/Structural,
Botanical, Creative Techniques, Landscape, Macro/Close-up, Natural Landscape,
People, Reflections, Sunrise, Sunset & Night

In addition, we discussed how we might improve our camera club display to aid in advertising the club since this will be the main focus of the next photo show. Bob has his racking that we can use to hang frames photos contributed by various members to show off some of our work. We all thought this would be good. We'll see what other displays we can come up with based on the space available. With the categories all set, then Jean Davids says she can begin doing updates to the website and then the forms that will be needed to create based on the new location and dates.

Anthony Hall was our Photographer of the month. I am leaving the information regarding his presentation until the end so that I can include more of his information that he provided the group.

Our topic for the month was Fall Colors. Jean Davids led the discussion and shared examples found on the internet. Because there was so much to cover at this meeting we held off on covering this info during the meeting and opted to provide it here. The links to tips on doing fall colors follow:

<https://www.outdoorphotographer.com/tips-techniques/nature-landscapes/techniques-for-fall-color/>

<https://digital-photography-school.com/photographing-fall-foliage/>

<https://digital-photography-school.com/add-motion-fall-photography/>

<http://www.nikonusa.com/en/learn-and-explore/a/tips-and-techniques/10-tips-for-shooting-autumn-foliage.html>

At the end of the meeting, we started discussing how to present the topic of Faces for the December meeting. Rick Lockhart mentioned that he has images that show finding faces in other objects besides people, pets, etc. He volunteered to share his outlook on this. We also discussed how to present the Video Editing topic for January. We decided that we should bring in samples of some of our efforts (2-3 minutes each) and discuss how we went about editing it. This also led to the topics of gimbals for steady shooting and ideas regarding that. With that we ended the meeting.

What follows is the great information that our Photographer of the Month, Anthony Hall, provided. The focus of his presentation was the planning and tools he needed for his August Eclipse trip that he took to Missouri. He did a great job of sharing his camera gear, solar filters, tripod concerns and software tools he used to aid in the planning of the trip. He said finding a place to stay was the biggest issue. Hotels around the area he wanted to

go to were charging as much as \$1500 for a room that would normally be less than \$100. Since he has an RV he decided to try that route out. He found an RV park that had space and although he had to move around his RV periodically based on bookings there, he was able to get some good locations to do his shoot. He learned a lot with this trip and the primary thing was to plan ahead sooner than 2 weeks prior. Filters and lodging were the biggest issue since there was a shortage of both given the hype of this event this year.

He also shared his images as well as the following information. It was a great presentation.

<https://www.sunsurveyor.com> - app used on IOS and Google Play devices. It is billed as a personal guide to the sun and moon. It allows you to see where the sun or moon will line up in your view so you can plan ahead for your photo shoot.



Solar Eclipse Exposure Guide

ISO	f/Number									
25	1.4	2	2.8	4	5.6	8	11	16	22	
50	2	2.8	4	5.6	8	11	16	22	32	
100	2.8	4	5.6	8	11	16	22	32	44	
200	4	5.6	8	11	16	22	32	44	64	
400	5.6	8	11	16	22	32	44	64	88	
800	8	11	16	22	32	44	64	88	128	
1600	11	16	22	32	44	64	88	128	176	

Eclipse Feature	Q	Shutter Speed								
Partial ¹ - 4.0 ND	11	—	—	—	1/4000	1/2000	1/1000	1/500	1/250	1/125
Partial ¹ - 5.0 ND	8	1/4000	1/2000	1/1000	1/500	1/250	1/125	1/60	1/30	1/15
Baily's Beads ²	11	—	—	—	1/4000	1/2000	1/1000	1/500	1/250	1/125
Chromosphere	10	—	—	1/4000	1/2000	1/1000	1/500	1/250	1/125	1/60
Prominences	9	—	1/4000	1/2000	1/1000	1/500	1/250	1/125	1/60	1/30
Corona - 0.1 Rs	7	1/2000	1/1000	1/500	1/250	1/125	1/60	1/30	1/15	1/8
Corona - 0.2 Rs ³	5	1/500	1/250	1/125	1/60	1/30	1/15	1/8	1/4	1/2
Corona - 0.5 Rs	3	1/125	1/60	1/30	1/15	1/8	1/4	1/2	1 sec	2 sec
Corona - 1.0 Rs	1	1/30	1/15	1/8	1/4	1/2	1 sec	2 sec	4 sec	8 sec
Corona - 2.0 Rs	0	1/15	1/8	1/4	1/2	1 sec	2 sec	4 sec	8 sec	15 sec
Corona - 4.0 Rs	-1	1/8	1/4	1/2	1 sec	2 sec	4 sec	8 sec	15 sec	30 sec
Corona - 8.0 Rs	-3	1/2	1 sec	2 sec	4 sec	8 sec	15 sec	30 sec	1 min	2 min

Instructions

Choose the ISO speed in the upper left column. Next, select the f/number of the lens or telescope (on same line as ISO). Finally, drop straight down to the bottom table to get the correct exposure for each feature of the solar eclipse.

Note that the brightness of the corona varies dramatically with distance from the Sun's edge. All exposure values in this guide are estimates. For best results, use them only as a guide and bracket your exposures.

Exposure Formula: $t = f^2 / (I \times 2^Q)$ where: t = exposure time (sec)
 f = f/number or focal ratio
 I = ISO film speed
 Q = brightness exponent

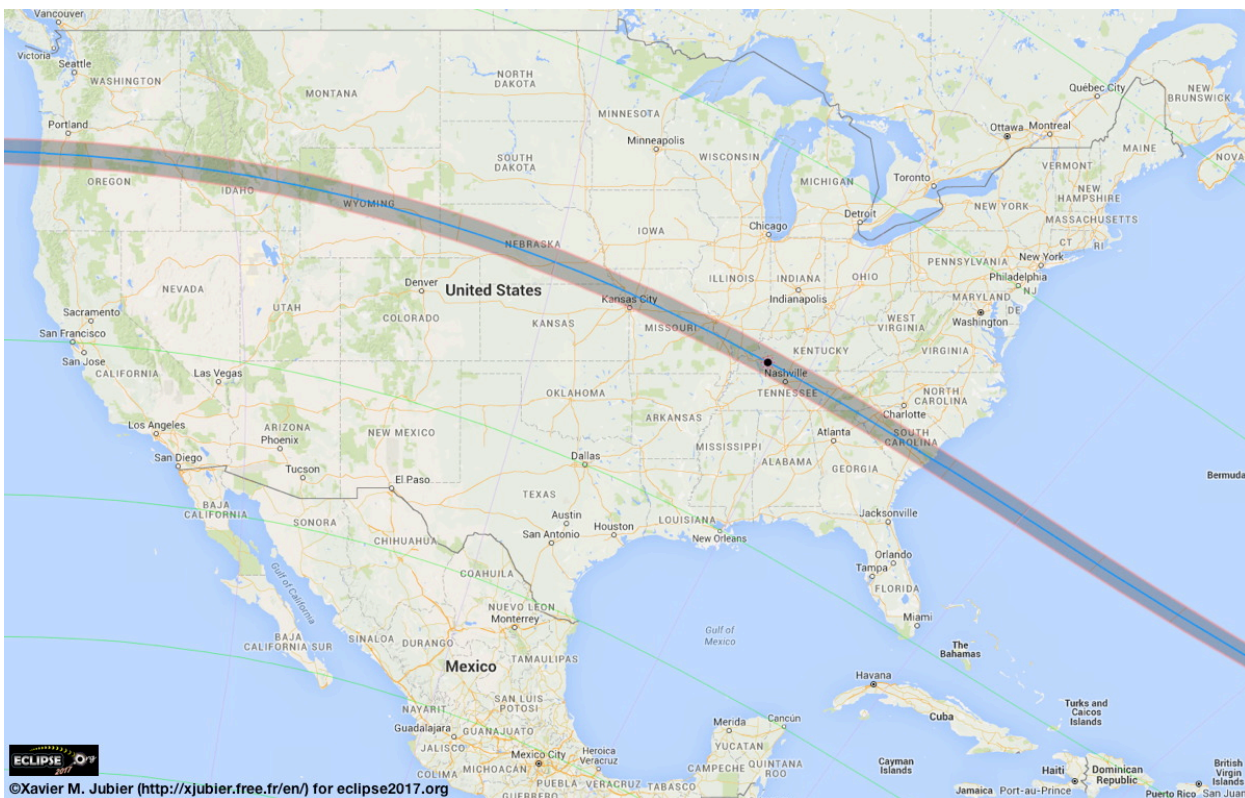
Abbreviations: ND = Neutral Density Filter.
Rs = Solar Radii.

Notes: ¹ Exposures for partial phases are also good for annular eclipses.
² Baily's Beads are extremely bright and change rapidly.
³ This exposure also recommended for the *Diamond Ring* effect.

Field of View for Various DSLR Focal Lengths

<u>Focal Length</u>	<u>Field of View (Full Frame)</u>	<u>Field of View (Crop Sensor)</u>
14 mm	98° x 147°	65° x 98°
20 mm	69° x 103°	46° x 69°
28 mm	49° x 74°	33° x 49°
35 mm	39° x 59°	26° x 39°
50 mm	27° x 40°	18° x 28°
105 mm	13° x 19°	9° x 13°
200 mm	7° x 10°	5° x 7°
400 mm	3.4° x 5.1°	2.3° x 3.4°
500 mm	2.7° x 4.1°	1.8° x 2.8°
1000 mm	1.4° x 2.1°	0.9° x 1.4°
1500 mm	0.9° x 1.4°	0.6° x 0.9°
2000 mm	0.7° x 1.0°	0.5° x 0.7°

www.mreclipse.com/SEphoto/SEphoto.html
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A PDF copy of an article from Popular Mechanics will be available also from the Meeting Minutes page that is titled How to Photograph a Total Solar Eclipse copyrighted 2017. Hopefully these reference materials help you if you plan on catching the next total solar eclipse.