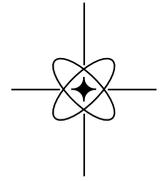


# Meteor Write



PUBLISHED MONTHLY BY THE MEMPHIS ASTRONOMICAL SOCIETY, A NON-PROFIT PUBLIC-SERVICE ORGANIZATION PROMOTING INTEREST AND EDUCATION IN ASTRONOMY AND RELATED SCIENCES. FOUNDED IN 1953.

November 2015

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## NOVEMBER MEETING



The Memphis Astronomical Society will meet at 8:00 p.m. on Friday, November 6, 2015, in the Assisi Hall Science Auditorium on the campus of Christian Brothers University at East Parkway South and Central Avenue. Enter from Central opposite the Fairgrounds. A campus map can be found at [www.cbu.edu/assets/2091/cbumap2014.pdf](http://www.cbu.edu/assets/2091/cbumap2014.pdf). Members are urged to attend and to bring guests. The public is welcome.

### PROGRAM

**WELCOME** \* \* President Bill Busler will greet the members and guests and outline the evening's program.

**BUSINESS** \* \* The minutes of the October Board of Directors meeting will be read by Secretary Tim Harris, and the Treasurer's report will be given by Treasurer Bill Wilson.

**NOVEMBER OBSERVING SESSIONS** \* \* The upcoming Observing Sessions will be announced by Mark Matthews, Vice-President for Observing.

**REPORT OF NOMINATING COMMITTEE** \* \* The Nominating Committee will report on the slate of candidates running for Board positions. Nominations from the floor will be accepted. The election will be held at the December meeting. NOTE: If you plan to run for the Board or vote in the election, you must pay your annual dues by the December meeting.

**SPECIAL ANNOUNCEMENT** \* \* At the December meeting, the M.A.S. will give away a telescope! Make plans now to attend, since you must be present to win. More details later!

**Short Course, Session 10: STELLAR EVOLUTION, PART I** \* \* by William J. Busler  
In this installment of our Short Course, we will cover one of the most interesting subjects in modern astronomy – the life cycles of stars. Before the break, Bill will discuss the formation of stars from dark nebulae, which slowly evolve to emission nebulae, reflection nebulae, and on to star clusters. We will see how hydrogen-burning stars all wind up at some point on the Main Sequence of the Hertzsprung-Russell Diagram, and how long they remain there.

**BREAK:** Time to refresh and mix and mingle. Please talk with our visitors and make them feel welcome!

#### M.A.S. CONTACT INFORMATION

President Bill Busler: [WBusler@aol.com](mailto:WBusler@aol.com)

M.A.S. Web Site: [www.MemphisAstro.org](http://www.MemphisAstro.org)

**STELLAR EVOLUTION, PART II \* \* by William J. Busler**

After the break, Bill will cover the events in the life of stars after they stop burning hydrogen and leave the Main Sequence. Topics will include red giants and supergiants, variable stars, planetary nebulae, white dwarfs, supernovae, neutron stars, pulsars, and black holes.

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**M.A.S. YouTube Site:** All Short-Course presentations are now available on line, or will be shortly. This is a great way to brush up on previous talks or see ones you might have missed. <https://www.youtube.com/user/MemphisAstronSociety>

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**DUES NOTICE:** The annual M.A.S. dues are now due. All members have been sent renewal notices. Please don't forget to bring your renewal form and check to the meeting.

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**NOVEMBER OBSERVING SESSIONS:** Mark your calendars (or high-tech devices)!

Saturday, November 7: **7:30** p.m. at Burton's Sugar Farm. Dark-Sky Observing.

A map with directions will be provided by e-mail on the day of the observing session.  
Don't forget to bring a printout of your M.A.S. Observing List for November.

Saturday, November 14: **7:30** p.m. at Burton's Sugar Farm. Dark-Sky Observing.

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**M.A.S. OBSERVING SITE REGULATIONS**  
November 2015

The following guidelines are now in effect for everyone attending our Dark-Sky observing sessions:

1. No smoking in the observing area, within 150 feet of the telescopes.
2. No use of firearms on the premises.
3. No drinking of alcoholic beverages in the observing area.
4. An adult member of the Society must be present at all observing sessions. An adult supervisor will have the authority to conduct the session in the best interest of all attending.
5. Parking is permitted only in designated areas. If you arrive after the scheduled beginning of the observing session, turn off your headlights or park at least 150 feet away from the telescopes.
6. No flashlights permitted without a red filter within 150 feet of the telescopes.
7. Cellular telephones may not be used in the observing area unless they are dimmed and/or equipped with a red filter.
8. If children are present, they must not be permitted to run in the observing area.
9. Each person must remove his own trash from the premises.
10. Members and visitors attending observing sessions and using the site do so at their own risk.