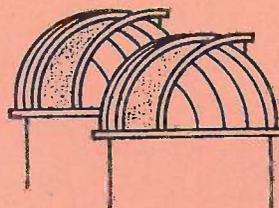


DOUBLE DOME



Issued by the

MILWAUKEE ASTRONOMICAL SOCIETY

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Observatory Site - 18850 W. Observatory Rd., New Berlin

NOVEMBER 1980 : -

NOVEMBER PROGRAM - MEETING: The science of astronomy has come a long way since Galileo peered at the heavens through his 32 power refractor. The marriage of rocketry and electronics has pushed astronomical frontiers farther and farther into space. Cosmology has become an everyday word as the written and spoken word tells us about Einstein, black holes, and neutron stars.

Dr. John Freedman will be with us again to personally give us an update on cosmology in his talk "General Relativity and Astronomy."

Dr. Freedman is a professor at UWMilwaukee and is well versed in deep space.

Attend - bring a friend.

WHEN/WHERE: Friday, Nov. 21, 1980, 8 p.m. UWM Physics-Olsen Planetarium Bldg., corner of Kenwood and Cramer, Room 133.

DISREGARD THIS ITEM if you've paid your dues! If you haven't, now's the time. Just fill in the handy form below. The MAS is never pleased to drop anyone from the roster. Despite the times, an MAS membership is still a bargain.

And they make good Christmas presents!

FINAL NOTICE!

FINAL NOTICE!

FINAL NOTICE!

Please mark this tear-off and include it with your remittance made payable to Mr. James Toeller, 407 W. Mall Rd., Milw., Wis. 53217 (352-7144)

- _____ General Membership @ \$20.00
- _____ Family Membership @ \$20.00 plus \$1.00 for each additional family member.
- _____ Non-Resident @ \$15.00
- _____ Junior Member (under 16) @ \$12.50
- _____ Founder Member @ \$7.50
- _____ Donation to 26" (66cm) Telescope Fund.

NAME _____

ADDRESS, ZIP, & PHONE _____

Thank you for supporting the Milwaukee Astronomical Society.

NEW MEMBERS: Meet and greet James Bauernfeind, Wauwatosa; James Habeck, Wauwatosa; and Hilbert Henzig Jr., Milwaukee. An apology to new member Eileen Korenic for misspelling her last name in the October Double Dome.

HELP WANTED! The Milwaukee Astronomical Society will host the 36th annual convention of the North Central Region of the Astronomical League (NCRAL) in 1982. A month later it will host the American Association of Variable Star Observers (AAVSO).

Nineteen eighty-two will be a big year for the MAS; it will be our golden anniversary, the 26" telescope should be ready for use, and we will be hosting two conventions! Will you help? Please call William Konig at 242-2369.

JANUARY-DINNER MEETING plans are underway. Complete details will appear in the December Double Dome. We can say now that the meeting will be held at a quality inn and include an interesting program. Plan to attend with a guest.

OUR JOY WAS SHORT LIVED! The expressway lights are back on and so is some of the light pollution. Some members claim that when the lights were out they saw naked eye objects they haven't seen in years!

West Allis is converting 4600 units to low scatter, energy conserving low pressure sodium lamps. The job will be done in 1982, and West Allis expects the lights will pay for themselves in 4 years!

The east parking lot of the Milwaukee County Medical Complex has shielded sodium lights which provide plenty of illumination.

The Society has a light pollution committee that needs members. There is something we can do about wasteful lighting. Please call Asst. Obs. Director John Asztalos (258-5626).

26" (66cm) TELESCOPE NEWS: The fund now has about \$6,000. Please send in your pledges if you haven't done so.

Work is continuing. Pipe for power and a phone has been laid. Strength and flexural analysis is being done on the telescope mounting. The telescope committee meets once a month to work out problems or mull over new ideas or improvements.

There's some disheartening news. We won't be able to get the dome, so we'll have to build one.

VOYAGER 1 is expected to arrive at Saturn on Wed., Nov. 12. The Jupiter "fly-by" by this amazing vehicle stunned the scientific world and now is creating equal if not greater excitement as it approaches one of the most beautiful and mysterious objects in the sky.

NOVA will document the astounding journey of Voyager 1, Friday, Nov. 14, at 10:30 p.m. on channel 10 WMVS. Don't miss it!

OPEN HOUSE REPORT: A total of 639 people visited the New Berlin observatory site during the five public Open House nights last summer.

Unfortunately, bad weather and clouds discouraged a lot of persons from coming out. But those that did show were enthused, and not a few are now MAS members because they liked what they heard and saw.

Thanks to all the members who helped make their visit(s) enjoyable.

"NORTHERN LIGHTS," The North Central Region newsletter is published quarterly in December, March, June, and September. This fine publication contains 4 pages or more of features and news of other societies in our region.

Send \$2.50 for a one year subscription to Mr. J. H. Fox, 14601 55th St. S., Afton, Minnesota 55001.

If you'd like to contribute a short astronomical article, please do so before the November 30 deadline.

CANADIAN HAND BOOKS may be ordered from Treasurer James Toeller. The price is \$3.50 a copy, payable in advance. There will be no extra copies. You may remit with your dues to save postage.

This 1981 edition pocket-size book is filled with astronomical data and facts. You'll refer to it a lot if you do any amount of beginning or advanced observing.

METEOR SHOWERS:

<u>SHOWER</u>	<u>MAXIMUM</u>	<u>PEAK RATE/HR</u>	<u>COMET SOURCE</u>
Leonids	Sun., Nov. 16	15	1866 I
Andromedids	Tues-Thur. Nov. 25-27	10	Biela
Geminids	Sat., Dec. 13	55	

Best viewing between midnight and dawn. Peak may occur a day or two before or after maximum date.

BOARD MEETING! The Board of Directors will meet Friday, Nov. 28, 7:30 p.m. at the home of Treasurer James Toeller, 407 W. Mall Rd. Spouses are welcome.

STAFF MEETING at the observatory Wed., December 3, at 7:30 p.m. Everyone is welcome, especially new members. Bring a guest.

MEMBER'S NIGHT KEYHOLDERS:

Nov. 15	G. Hall	786-8579	Dec. 6	R. James	421-2162
22	D. Harris	964-1428	13	P. Murn	464-1539
29	C. Hesselstine	842-4515	20	J. Pfannerstill	548-9287

Only members and parents of young members working on worthwhile projects may attend on the above nights. Call the keyholder the Fri. before his night - cancel Sat. if necessary. Keyholder should report anyway. He will also oversee tours during the week ending with his assigned night. Mr. J. Toeller (352-7144) will act on requests.

- FULL BEAVER MOON SAT., NOV. 22 -

LeRoy Simandl, Editor (933-3052)
4201 W. Highland Blvd., Milwaukee, Wisconsin 53208

TO EVERY ONE: HAPPY THANKSGIVING