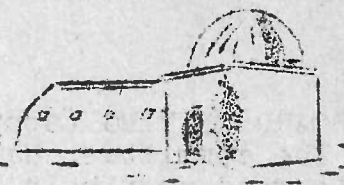




THE

DOUBLE DOME



A Publication of the
MILWAUKEE ASTRONOMICAL SOCIETY

FEBRUARY MEETING

Friday, February 19, 1960. 7:45 PM Finney Public Library
Southeast Corner of Sherman & North

MR. FRANK VAUGHN
will speak on

"SOME PROBLEMS OF LUNAR OBSERVING AND THEIR SOLUTIONS"

Mr. Vaughn is no stranger to most of us; having spoken on several occasions in the past several years. He is the Mars recorder for The Association of Lunar and Planetary Observers and has many years of experience in the field of Lunar and Planetary observing. Mr. Vaughn is also the operator of Frank Vaughn Optics in Madison.

** EDITOR WANTED **

The Double Dome is in need of an editor. As you all know, there has not been a publication of the Double Dome in nearly a year.

If this little paper is to continue to be published it must find an editor in one, or more of YOU the members.

Are you interested in helping to continue this paper? If so, please contact Mr. James at LO-2-8229.

The help of the members is also needed to supply stories and articles for the future.

** OBSERVERS' S HANDBOOKS **

Mr. Ball reports that the following people have NOT picked up the handbooks that they requested be held for them;

Bishop	Osburn
Ceolla	Russell
Hernday	Spridco
Kebbekus	Tonn

If these books are NOT picked up before the start of the February meeting they will be sold to anyone that has the 75 cents.

** OBSERVATORY STAFF MEETING **

An observatory staff meeting will be held, Friday, March 4, 1960, 8:00 PM at the observatory.

** BOARD MEETING **

At the last board meeting the following standing committees were set up and the chairman named:

Program Planning Committee

Chairman: Mr. Richard Wend

Purpose: To arrange the programs for the meetings. If you have a suggestion see a member of this committee.

Public Education Committee

Chairman: Mr. Ralph Brichts

Purpose: To coordinate the tours at the observatory, and handle display material.

Technical Advisory Committee

Chairman: Mr. Richard Fink

Purpose: To advise and assist members and non-members on the building of telescopes and accessories.

Lands and Property Committee

Chairman: Mr. William Albrecht

Purpose: To look into possible new sites for the observatory and to see that the best use of the site is made.

Observatory Committee

Chairman: Mr. Robert James

Purpose: To assist the observatory director in coordinating the programs and work at the obs.



BOARD MEETING (Cont. from front)

The committee chairman are going to need your help to do the work, If you are interested in working on any of the committees contact the chairman.

* * LOOKING AHTAD * *

Tentative future programs at the regular meetings will be:

Dr. Karl Henize, Director of Northwestern University Observatory in Evanston Ill.

Trip to the Buckstaff Observatory in Oshkosh, Wisconsin.

*** WELCOME ***

* NEW MEMBERS *

The Board of Directros has approved the following applications for membership:

Mark W. Brew	William Lewis
David Katz	Richard Schmidt
John Crotty	Clarence Weiss

We extend a warm welcome to you and hope that you will take an active part in the Society's many activities.

* * MOONWATCH SCOPES * *

The observatory has received its new Moonwatch apogee scopes which will need to be mounted sometime early this spring.

The old Moonwatch scopes are sched uled to be sold. Further informatio will be announced later.

M-34

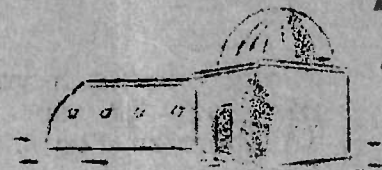
MR. AND MRS. STEPHEN KLIMAN,
2809 N. GRANT BLVD.,
MILWAUKEE 10, WIS.





THE

DOUBLE DOME



March

~~1957~~
1960

A Publication of the
MILWAUKEE ASTRONOMICAL SOCIETY

MEETING

DR. EDWARD BERNERS
will speak on

"ABUNDANCE OF ELEMENTS AND THE NUCLEAR CYCLE"

This is the first time we have had Dr. Berners speak to us. He is a physics instructor at Marquette university.

This month the meeting will be back at the Finney Library, Sherman and North, and will start at 8:45.

RESERVE APRIL 23

FOR

BUCHSTAFF TOUR

Make your plans now to visit the observatory of Mr. Ralph Buchstaff. This is a very fine amateur observatory. Mr. Buchstaff is a founder member of the MAS and has done a lot of serious work in astronomy.

MOONWATCH

The Milwaukee Moonwatch Station was visited on March 7 & 8 by two members of the Smithsonian Astrophysical Observatory, Dr. Gustave Bakos, astronomer, and Mr. Alexander Bilinski, Moonwatch field representative.

A very interesting and informative meeting was held at the observatory for the Moonwatch team and Observatory staff. Dr. Bakos explained how it is that even with the precision information from the Baker-Munn cameras and radio tracking methods, they will still lose a satellite due to sudden changes in the orbit caused by changes on the Sun. Mr. Bilinski told of the importance the Moonwatch program plays in relocating these satellites and how Moonwatch fits into the National Aeronautics and Space Administration Program.

Several members also practiced with the "Satellite Simulator" which must be returned in about a week.

There will be a staff meeting held on Friday, April 1, at the Observatory. At this meeting a code of laws for the observatory will be posted, after discussion.

NEWS

If you have any items you wish included in the "Double-Dome", phone them to Doug Bash, HI-4-2032, or George Kuetemeyer, BI-80862, at least two weeks before the general meeting. That we don't know we can't print.

SCIENCE FAIR

The sixth annual Science Fair will be held April 8-10 at Brooks Memorial Union, 15 and Wisconsin Ave. It is an exhibition of the work of students interested in science.

OBSERVATORY MEETINGS

These people have been named observer-in-charge on their respective nights. If you wish to go out to the observatory, call the person in charge for that night to find out how many are going out and if there will be an instrument for you to use. If you are to conduct a special visiting group out to the observatory call the person in charge so he can adjust his schedule.

Sunday: Mr. Jack Crotty
Os-9-1251

Monday: Mr. Richard Wend
Li-5-2571

Tuesday: Mr. Edward Halbach
Li-1-1181

Wednesday: Mr. Carl Mathies
Sp-4-8334

Thursday: Mr. Robert James
Lo-2-6229

Friday: Mr. A.R. Ball
Di-4-0645

Saturday: Mr. Tom Osypowski
Li-3-2573

Special Groups: Mr. Ralph Bricca
Gr-6-4718

ANY ARTISTS?

Are there any members who would be able to paint a few signs for the observatory?

Library Slips

Do you have a book from the MAS library? If so would you please list the title and the author on a slip of paper and bring it at the next meeting. Turn it over to either Mr. James or Mr. Wilford.



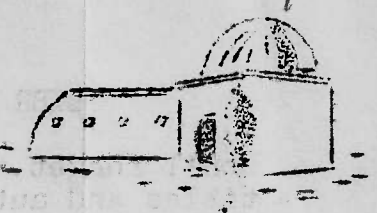
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MR. H. J. LINDEMANN,
4254 N. FORTY-SECOND STREET,
MILWAUKEE 16, WIS.

Apr 1960 H?



THE DOUBLE DOME



A Publication of the
MILWAUKEE ASTRONOMICAL SOCIETY

APRIL MEETING

On April 15th, Mr. Charles Johnson from the International Business Machines Corporation will speak on "Computers and Scientific Uses". There will also be a film on this subject. The meeting will begin at 7:45 at the Finney library.

FIELD TRIP
BUCHSTAFF OBSERVATORY
APRIL 23

The MAS has been invited to visit the observatory of Mr. Ralph Buchstaff in Oshkosh. This is a very well known observatory with several specialized instruments, in the field of solar observation especially. The bus will leave Finney library at 6:00 on Sat. April 23. The round trip price is \$2.25. This will be a very worthwhile and interesting tour for all members of the Society. Sign up at the April 15 meeting, or call, Mr. Richard Wend, Li-5-2571.

LUNAR ECLIPSE

A total eclipse of the moon took place early March 12. Several members of the Society were out at the observatory in spite of the sub-freezing temperatures. The sky was clear except for a light haze which did not seriously affect viewing. Some of the pictures which were taken were shown at the March meeting.

March Meeting

A very interesting talk was given By Dr. Berners of MU on the evolution of elements and the universe. He discussed in detail both the theories of George Gamov and Fred Hoyle, who propound very different theories. After the talk a short business meeting was held.

Fireball Observing

There will be forms for reporting fireball observations out at the observatory in about a month. If one is sighted before this, contact
Jerome Walsh
Ed 2-3998
4905 N. Anita Ave.

Staff Meeting

The next staff meeting will be May 6, Friday, at 8:00

News and library

Remember phone anything for Double-Dome in to Hi-4-2032 two weeks before the meeting.

LIBRARY SLIPS

WANT ADS

Don'T forget to turn in the titles and authors of any books you have from the IAS library. Turn them over to Mr. Francis Wilford or Mr. James.

We will print any ads for astronomical equipment that any Society members wish to buy or sell.

PARKING

Remember not to park in the lot at the bbservatory as long as the ground is still so wet. Stay on the road running past it.

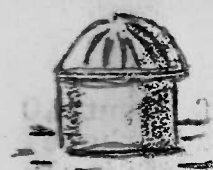
Anyone wishing to sell a 4-inch reletor should contact: Scott Lewis B1-8-4559 8529 W. Stickney Ave.



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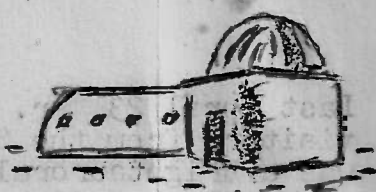
MR. H. J. LINDEMANN,
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May 1960



THE

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MILWAUKEE ASTRONOMICAL SOCIETY

REGIONAL MEETING
MAY 21 & 22

On Saturday May 21 there will be a regional convention in Madison. The general session of papers will be Sat., and the Junior session on Sunday. There will be a banquet Sat. night, Sunday, a trip to Pine Bluff Observatory.

Register with:

Miss Emile Benfer
3010 Cross St.
Madison, 5, Wis.

Registration is \$1 till May 15, after that it will be \$1.50. The banquet cost is \$3.00, the trip to Pine Bluff, \$1.00. You may register there starting at 9:00 Sat., at the Wisconsin Center Building on the UW campus.

MAS May Meeting

Our meeting will be held as usual on the third Friday of the month, May 20. There will be a short film on "The Earth and Its Satellites". There will also be the election of board officers for the coming year, so be sure to attend.
Finney Library--7:45

AAVSO Spring Meeting

The 49th Spring Meeting of the American Association of Variable Star Observers will be held at the American Museum-Hayden Planetarium, May 27-30, 1960. Additional information for anyone who is interested in attending or presenting a paper will be available at the regular meeting (MAS) on Friday, May 20.

Book Auction

At the next meeting there will be a list of 27 books available for you inspection at the May 20 meeting. The AAVSO is auctioning off many duplicate copies that they have in their library. The list will show the minimum bid that will be accepted. All bids must be in by June 1, 1960. All the money received from the sale of these books goes into the AAVSO endowment fund for the continued operation of the AAVSO.

Observatory Notes

The observatory was hit by lightning last month, but there was no damage, other than a power failure. Observers were watching for the descent of Sputnik II, but thanks to a snowstorm saw nothing.

Buchstaff Tour

Last April 23, Mr. Ralph Buchstaff was host to a group of about 40 visitors from the Society. Seeing conditions were unsteady, there was a bright auroral display that night which made seeing difficult.

Mr. Buchstaff has three main instruments, a 16-inch Cassegrainian reflector, a 5-inch, used solely for sunspot observing and solar work, and a three-inch refractor. He has an extensive library and is also the official weather station observer for Oshkosh. He maintains also, radio recording equipment for recording sunspot activity. Our 12-inch scope was donated by him, about ten years ago. There is a chance it may be ready for use by this fall.

Staff Meeting

The next staff meeting will be held June 3. Due to the rains still stay off the lot. More apogee scopes have been mounted and will be ready for use.

Want Ads

Anything for this column must be phoned in HI-4-2032- before the staff meeting for that month.

FOR SALE: 5" dia. 40" efl aerial camera lens. \$50.00

Phone: Mr. Bob Jones-Lo 02-8229

Nova Search

Tom Osypowski says that observers are needed for the Nova search program. This is a project that can be done at home, in a short time, and without any optical instruments. However he does want people who will at least go out and look, and be reliable in their reports. He will be at the next regular meeting to make assignments.



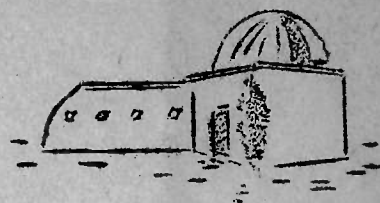
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78 PEOPLE TURN OUT FOR ANNUAL PICNIC

The weatherman cooperated for a change, and for the first time in years sent us sunny skies and 70 degree temperatures. Seventy-eight people ate dinner at the Observatory and afterwards listened to a talk by Gayle Highsmith, our satellite predictor, on our part in the Moonwatch program. Dick Wend, the program chairman, reported that there had been a mixup at the postoffice so that not all of the notices were mailed out, as a result several people were not informed of the picnic.

Double-Dome Enlarged

With this issue, the D-D will be expanded to 3½ pages. Every month articles, written by members of the Society, will appear explaining various phases of amateur astronomy.

In another feature, Dick Wend will answer questions on photography and telescope making. Address your questions to:

Dick Wend
8800 W. Lincoln Ave.
West Allis, Wisc.

It will only be possible to handle a few each issue, so yours might not be answered for a month or two.

AL Convention Held

On May 21 & 22 the North-Central section of the Astronomical League held their convention on the U. campus in Madison. Four members of the Society gave papers, Phil Glaser, Chuck Giffin, Jerome Walsh, and Walter Kaminski. A highlight of the convention was a 12½" f4 reflector built by a Madison Junior.

There was a banquet Saturday night and a trip to the Pine Bluff Observatory Sunday.

During the summer months, many of you will be going or have gone on your vacations. If you visit any observatories or talk to anyone who is a member of a group similar to this in another city, and you find any ideas which our Society could use or which would be of interest to most of the members, jot them down and mail or phone them to:

Doug Bash (Ed. D-D)
3232 N. 86 St.
Milw. 22

OFFICERS ELECTED

At the May meeting, the following people were elected officers and board members:

Pres.-Robert James	W. Albrecht	Board members:	B. James
V. Pr.-Richard Wend	R. Brichta		R. Wend
Secr.-Carolyn Kliman	J. Dahlberg		E. Matthies
Tres.-A.R. Ball	P. Glaser		H. Pease
	D. Knaup		G. Highsmith
			J. Uporski

The author of this piece was once a friend of mine. He was, as far as any one else could tell an ordinary person, sullen and morose. The he started to grind a mirror and he changed, this is what happened.

The Heavenly Comedy
by George Kuetemeyer

The stars and the galaxies, the cosmic secrets and the fathomless mysteries of the heavens beckoned to Allegretto (also called Little Allegro, or more simply, Little Al) through the sundering darkness. The dim glistening of numberless diamonds of light teased his eyes, filling them with stars and an unquenchable longing to see them at last in all of their brilliant detail. Yet it was not so much a longing as a trance--a hypnotic vision brought on by the vagentry of the night sky.

Finally, unable to satisfy his desire, Little Al decided to purchase a key to the heavenly wonders, a telescope. Retiring to the still light of his little house, and drawing his small, paper-thin purse from his pocket, he began an assessment of his wealth. But, alas, after a thorough accounting, he found that his treasure amounted to only twelve dollars, entirely insufficient for a telescope of any real value.

Hearbroken, he staggered out of his abode and sadly gazed once more at the glistening particles of light far out in the ebony sky. The stars were still playing their little game, dancing above him, beckoning him. In a fit of anger he cried out: "I am not helpless! I may not be able to buy a telescope, but I can make one!

"Make one?"

Horror stricken he clenched his fists. What had he said? Make a telescope? Why, that would be a task worse than a lifetime in the inferno. The grinding of a telescope mirror was at best a terrible ordeal of many back-breaking months, a process unspeakably tedious and dull.

The boy fell on his head on earth, pounding it with his fists. His throat began to vibrate, his mouth to twitch. He was in another one of his trances; anything could happen. He began to expostulate with himself: "I cannot take the torture of grinding a mirror. I cannot go through with that horrible agony. I cannot bear all that suffering."

But the twinkling light of the stars slowly began to shine in his eyes again. Their witchery was like a magic spell, calling him to his senses only to fill him with a new and more positive insanity. Allegretto rose from the ground with resolution.

"I, Allegretto, son of Allegro, must have a telescope! I will make a telescope!"

The twelve dollars enabled him to purchase a mirror-making kit. He found an old barrel to serve as a grinding stand. His wild resolution had brought him to the mocking gate of the inferno. The grim and terrible portal terrified him with its message:

Through me goes the Way to the Woeful City
Through me lies the path to eternal pain.
Abandon hope, all you who enter here!

With fright and trepidation, he opened the door to the cellar, the abominable pit, the home of those who will neither buy nor steal, but are determined to do it themselves. Down, down the stairs into the abysmal darkness he stumbled; alone, alone, forsaken by men and animal he grasped the mirror blank in his nervous fingers and began pushing the embryonic glass back and forth across the tool. Slowly, slowly, he walked around the barrel. In the deathlike silence of the cellar all that could be heard was the rasping, grating noise of the glass on the carborundum and the soft plodding sound of circling feet.

To test the curvature of the mirror, he used a small candle.

The silent, wavering reflection of the candle was his taskmaster. It commanded him to stay chained to the grinding stand; it commanded him to toil, like a beaten slave turning a gristmill in an endless circle.

Hours turned into days; days turned into weeks. The warm, gentle breezes of summer turned into the blustering winds of fall and then into the frigid gales of winter. Down in the bleak, cold cellar he trudged around and around, grinding, walking, grinding, walking. The cruel candle continued to order him on, driving him mercilessly forward. But now, a new, strange noise arose from above the grating of the mill and the plogging of little feet.

"Sighs, lamentations and loud wailings resounded through the starless air, so that at first it made me weep. There was horrible language words of pain, tones of anger..!"

Despair, a dark and oppressive phantom, slowly took hold of his spirit crushing him in its icy grasp.

Then, finally, in the uttermost depths of his misery, he began to see a ray of light. The grating stopped. The pace slackened. The desired curvatures were attained.

"To course over better waters the little bark of my wit now lifts her sails, leaving behind her so cruel a sea. Now will I sing of that second kingdom, where the human spirit is purged and becomes fit to ascend to the heavens."

The grinding was finished! Despair sadly released its grip and slipped back into the shadows. Legretto saw the traces of starlight filter through a small window into the blackness of the cellar. Hope flowed in on the beam of light, filling his soul, once parched and dry, with heavenly calm.

His work, however, was still unfinished. He replaced the tool with a soft pitch lap and addressed himself to the task of polishing his mirror. He felt renewed promise in his heart and gave voice to his hopes with song. The vision took hold of him again, accompanied by the jangling music of the spheres:

"I heard such sounds and saw such things and after was so inebriated with delight That all the universe seemed one long laughter."

After the mirror was completely polished, it was sent away to be aluminized. While it was away he obtained his tube and eyepieces. He fashioned metal fixtures and pieces of lumber into a sturdy mounting and tripod. The one beautiful, clear night, he came up out of the pit,

"Even as a budding plant renewed with new leaves, pure and ready to mount to the stars"

"And I saw through the round opening some of the fair things lodged in the vault of the heavens."

And so ends the saga of Little Al.

All quotations were from; J.D. Sinclair, tr. and comment, The Divine Comedy (3 volumes, N.Y. Oxford Univ. Press, 1948)

Donald Ranthun
6103-0204

Old Moonwatch scopes, make fine finder scopes, eyepieces alone selling for about \$12. Priced here about \$15 contact:

-----Donald Ranthun-----
for 6" call: Ch 2-2066
Thiensville

- WANT ADS - For sale Jim Wright, Jr.
R.I. Box 286

6" reflecting Telescope equatorial mounting, dust proof cart for moving and storing. Includes lens turret, eye prism barlow, camera attachment and sun screen--\$220

Aug 1960??

Observatory Rules

Due to the heavy use which the Observatory gets during the summer, these rules have been approved by the board.

1. No Smoking in buildings when more than ten people present. None at all in the dome or outside. As you know we have no phone nor easily available water supply so we can't afford to have a fire.
2. Don't eat in the dome. We have been having trouble with rats. If you bring food out make sure you take it all back with you. Put all your garbage in a paper bag and don't leave it in the building.
3. Try to leave the place cleaner than it was when you came. Take care of the place, if you see something that needs picking up, put it back where it belongs. Don't go out to the Observatory if you don't intend to do some work. Too many people go out there without accomplishing anything.

Slides Available

Quite often Members of the Society are called upon to give talks in astronomy to groups who know nothing about it. To help you arrange a talk there are film strips and slides available from the Milw. Public Museum. For more information contact the Museum.

Observatory Notes

In case you lost your list, here is another copy of the observers-in-charge. If you would like to help observe satellites, but haven't been called, call Gayle Highsmith Sh-4-5613

Mon.--(Visitor's Night) Dick Wend
Li-5-2571

Tue.--Ed Halbach
Li-1-1161

Wed.--Carl Matthies
Sp-4-8334

Thur--Bob James
LO-2-8229

Fri.--R. Hall
Di-4-0645

Sat.--Tom Osypowski
Li-3-2573

Sun.--Jack Crotty
Os-9-1251

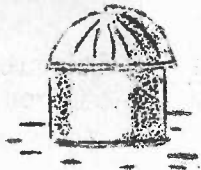
Specials-Ralph Brichta
Ho-3-9262

Dr. George R. Wagner, one of our members, donated nine large Astralunals to decorate the Observatory. They will be on display out there from now on.

The lawnmower has been fixed at a cost of \$74. The entire motor was rebuilt. The cause of the trouble was an out-of-balance blade, so be careful.

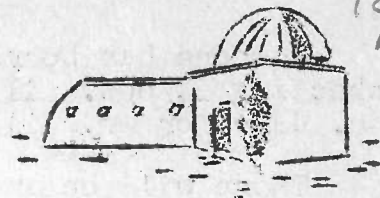
Early on the morning of July 2, about 1:30 DST, what appeared to be a fireball was sighted at the Observatory. There is, however, a possibility that this was a sky-rocket set off from a near-by carnival. If you saw it, and can comment either way, would you please call either Doug Bash or Tom McFarland.

Try to keep your charts for variable star observing in order. It makes it a lot easier on the next person who uses them. Also remember to date your observations.



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DOUBLE DOME



Sept 1960

1987?

A Publication of the
MILWAUKEE ASTRONOMICAL SOCIETY

GLAZER TO SPEAK ON JUPITER RECORDING DUTIES

Phil Glazer is going to report on his duties as Jupiter transit recorder for the Lunar and Planetary Observing Society. Bob James will also speak giving a report on the National Astronomical League Convention that was held over the Labor Day weekend in Philadelphia. The meeting will be held at the Finney Library on Friday, September 16 at 7:45. The Finney Library is on the corner of Sherman and North.

MOONWATCH

The Moonwatch section of the MAS has been very active this summer. Now ~~and~~ has been set up on a slightly different basis. Mr. Gale Highsmith will be in charge, giving Mr. Halbach a chance to rest for a while, and the Observers-in-charge for the various nights are supposed to take care of the early passes on their respective nights. We are receiving a new type of satellite position prediction, now we are given coordinates to set the scopes on. These predictions are posted on a bulletin board out at the observatory for the week ahead. There are also sample forms, airmail envelopes, etc. so that the person observing the satellite can prepare and send the information to the Smithsonian Institute without any delay or bother of anyone else. A meeting was held on Monday, August 29 to iron out the problems in our system and to try to improve the efficiency of our operations.

On June 18 and 19, Mr. Ed Halbach attended a meeting of Moonwatch heads in Cambridge, Mass. Fourteen observers from all across the country attended the meeting. It was decided to try to increase significantly the accuracy in the data provided, also, as an efficiency move, the number of Moonwatch teams was cut to 135 from 209. This leaves 54 stations in the United States.

Friday, September 30, there will be a meeting held at the Observatory for those interested in taking part in Moonwatch. It will last about an hour beginning at 7:30, with Mr. Highsmith presiding.

There are still some of the old Moonwatch scopes left. The eyepiece alone in these instruments is selling for \$12 from Edmund Sct. For further information contact:

Donald Ranthun
SH 4-5613

These scopes are being sold for only \$10, but there are only five or six available.

The Future

This issue of the D-D has again been reduced in size, mainly because an expected article on radio astronomy and the University of Illinois's radio telescope was not forthcoming. This will be printed in a later issue. Next month we will also have the totals in visitors, variable star observations and other data on summer happenings which was unavailable this early.

OBSERVATORY NOTES

Someone has borrowed a bound volume of Sky & Telescope without checking it out. Will that person please return the volume to either Mr. James or Mr. Wilford (the librarian).

There will be an observer's staff meeting Friday, Sept. 20 at the Observatory. The first part as previously mentioned will be concerned with the Moonwatch program. About 8:30 the second half of the meeting will start and will be devoted to the regular observing program. This is an important meeting and all staff members are urged to attend. Mr. James who is Acting Observatory Director, to give Mr. Halbach a vacation will conduct the meeting.

There has been a change in the list of Observers-in-Charge. Dick Wend is moving over to Saturday night in place of Tom Osypowski. John Reis (Ho-6-4558) will take over Monday night in place of Wend. Tom Osypowski will be attending St. Francis Seminary where residence is required so he will be unable to continue his observing program.

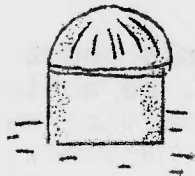
When you approach the Observatory after dark and notice that the dome is open, will you please switch on your parking lights before you approach the parking lot. It is very irritating to be observing in the southern part of the sky and then all of a sudden be blinded by the headlights of incoming cars.

The office at the Observatory has been rearranged and cleaned up. The desk have been moved, the charts have been rearranged, and the general appearance has been improved about 100%. Please try to keep it that way.

MR. H. J. LINDEMANN,
4254 N. FORTY-SECOND STREET,
MILWAUKEE 16, WIS.

M-54

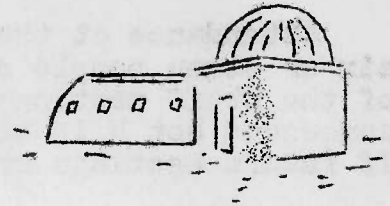




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Oct.

1960

Mr. Leroy M. Clausing
will speak on

"The Reflecting Telescope"

Our next meeting will be held at the Central Library (8th & Wis) at 7:30 on Friday, October 21. The earlier starting time is due to the fact that we have to be out by 9:30. They are remodeling at Finney and won't have the necessary space after they are finished.

This is the first time Mr. Clausing, a professional mirror finisher from Skokie, Ill., has spoken to us.

Volunteers Needed

- There are three projects for which chairman and help are needed:
- 1. A co-ordinator for the group tours of the Observatory.
(This involves handling the reservations and finding an observer to take care of the group that night.)
- 2. There should be a program for the juniors.
(We have about thirty young people who are very interested in learning more about astronomy.)
- 3. We would like to have a display at the Milwaukee Hobby Show and at the regional and national Astronomical League conventions.

Anyone interested in helping or heading any of these projects contact:
Mr. Robert James Lo-2-8229

Membership Directory

The list of membership included with this month's Double-Dome is current as of August 31, 1960. This is also, with a few exceptions, the list of people who are being mailed the Double-Dome. If you are not receiving a copy regularly or have recently changed your address, would you please contact Mr. Hohn Uporsky, Gr-6-1467 and give him your present address.

New Members

At the September board meeting, the following membership applications were approved:

James T. Krock
2828 N. 76 St.
Milw. 10

Thomas P. Pope
125 Harrison Ave.
Waukesha

Allen Abrahamson
20060 W. Greenfield

Arthur S. Lynch
1118 E. Wabash
Waukesha

William O. Zirbel
1409 S. 100 St.
West Allis 14

Robert A. Pohl
3708 S. 15 Place
Milw. 21

Mr. & Mrs. Walter G. Zinn, 5475 N. Hopkins St, Milw. 16

Observatory Notes

Attendance at the last staff meeting was very poor. Only about six or seven people showed up, so nothing was accomplished. No notices of the staff meetings will be sent out anymore. This last meeting was announced both in the Double-Dome and at the last general meeting. If future meetings aren't better attended, they will be discontinued.

The 12" dome is still incomplete, although quite a bit of work has been done on it lately. If you are skilled in any line that would be of use, and would be willing to volunteer some time, please contact:

Mr. Edward Halbach, Li-1-1181

A.L.P.O.

At their recent national convention, held in conjunction with the AL in Phil., the A.L.P.O. (Association of Lunar and Planetary Observers) mapped out an extensive observing program for the winter. There are several new recorders who have ambitious projects on which they would appreciate observations.

David Meisel, the comet section recorder, has several programs prepared. He is principally interested in photography or photometry. With the 13", we are able to photograph about 90% of the comets he is seeking data for. Another project, which we are at the present time unequipped for, is the photoelectric measuring of the dimming effects of comets on starlight.

Bill Hartmann, the Venus recorder, has planned a six week long "Venus Month", lasting from mid-December to the end of January. His main interest is pictorial, since it is difficult to photograph detail on Venus. During this period, he would like drawings done at 6:30 p.m. local standard time, on Friday and Saturday nights. This would give him a large number to compare.

The other recorders have similar programs. Phil Glaser is mainly interested in meridian transits, although this apparition is almost over. The Mercury recorder has forms and a program for the transit across the sun on November 7.

If you are interested in doing any observing along these lines, contact the respective people listed below for information and assistance.

Mercury--Geoffrey Gaherty, Jr.
636 Sydenham Ave.
Montreal 6, Quebec
Canada

Venus--William Hartmann
Walter H. Haas (Lunar reco.)
Pan-American College Obser.
Edinburg, Texas

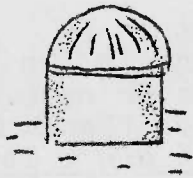
Mars--Ernst E. Both, Curator of Astronomy
Buffalo Museum of Science
Buffalo 11, N.Y.

Jupiter--Phil Glaser
400 E. Park Ave.
Menom. Falls, Wisc.

Comets--David Meisel
800 8th Street
Fairmont, West Va.

Saturn--Thomas A. Cragg
246 Beach Ave.
Inglewood 3, Cal.

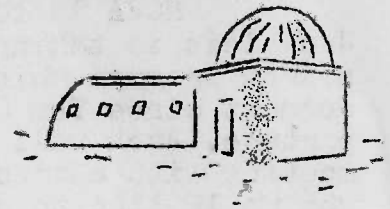
Uranus-Neptune--
Leonard B. Abbey, Jr.
822 S. McDonough St.
Decatur, Georgia



THE

DOUBLE DOME

A Publication of the
MILWAUKEE ASTRONOMICAL SOCIETY



Dec.
1960

SOCIETY TO PURCHASE NEW MIRROR

A program has been started to collect enough money to purchase a 12½ inch, 1/20 wave, pyrex mirror. Contributions and pledges will be accepted at the next meeting. They may also be sent to Dick Wend, 8800 W. Lincoln Ave. Checks should be made payable to the Milwaukee Astronomical Society %Richard Wend. Please send in your contributions as soon as possible, since plans call for the mirror to be ordered before Christmas.

Our present mirror is not of very good quality. It is in need of re-figuring, but since it is not ours and is only plate glass, it would not be worth the trouble and expense. By improving the quality of the instrument, through the purchase of a better mirror, there will be no loss in light-gathering power even though the aperture is smaller by ½ inch.

"THE NATURE OF SCIENTIFIC INVESTIGATION"

BY

DR. ROBERT J. MILLER

Dr. Miller is an assistant professor of anthropology at the University of Wisconsin. His talk will be presented this Friday, December 16, at the central library. The meeting will start at 7:15. After the main meeting there will be a short "orientation" meeting to acquaint newcomers with some of programs and offerings of the Society.

MEMBERSHIP DIRECTORY

We would like to mention that the membership directory is solely for private use. The list of names is not to be used for any advertising lists.

"STAR WAGON"

The Milwaukee Public School Department for Adult Education and Recreation is planning the construction of a "Star Wagon". The unit is a small planetarium and observatory mounted on a trailer. The vehicle would be taken to a park or playground in the city and a planetarium exhibition would be presented. After the show, people would be able to look through a telescope.

The idea was conceived by Mr. George Wilson of the Milwaukee Public Schools. He has been assisted on this project by several MAS members. Although built primarily for the Outdoor Education program during the summer, the unit would be available for the use of other groups depending on the availability of able operators.

The purpose of the Outdoor Education Program is to give the general public an appreciation of, an interest in, and some basic knowledge of the study of nature and natural science. Through the "Star Wagon" it is hoped to increase the public's knowledge of astronomy and to increase the number of people interested in it. Any members who would be interested in assisting this program, contact Mr. James after the next meeting.

Anyone with anything for the Double-Dome, please contact Doug Bash, Hi-4-2032, at least two weeks before the next meeting.

NOVA SEARCH

Jack Reis is taking over the nova search program which has been rather dormant since Tom Osypowski's departure. Jack will be at the next meeting with charts etc. for those who would like to join this program.

Variables

During this past summer there were 776 variable star observations recorded through September. The chief observers were:

- | | |
|-----------|------------|
| McFarland | Kaminski |
| Ball | Wend |
| Bash | Walsh |
| Halbach | J. Mathies |

Work

As usual, there's plenty to do. Anyone willing to work on the various projects, such as finishing the 12" dome, for instance, please contact Mr. Halbach.

Directory

If there were any inaccuracies in the membership directory, in regard to names, addresses, or telephone numbers, please report them to Mr. John Uporsky.

Mercury Transit

Several MAS took part in the ALPO program for the transit. Mr. Cornell collected the reports and sent them to Sky and Telescope. Members observing were: Dick Wel, Phil Glaser, Ed Halbach, Tristan Jurgens, and Donald Haaya.

Tours-

Jerome Walsh has taken over as coordinator for group tours. If you have a group you wish to take out, contact him beforehand to obtain a date. If you are willing to guide tours, please contact him and inform him so.

And Fireballs

Jerome is also taking care of the fireball reports. He wishes to thank all those who have been turning in reports and wishes more would do so.

Moonwatch

When you're out at the Observatory please check the sheet above the desk to see if any satellites are due. If so, try to make an attempt to observe them. Don't put down "not seen" if you didn't look for it.

LIBRARY
 WILWAUKE
 APR 21 1960
 MR. STEPHEN KLIMAN,
 2809 N. GREENBAY BLVD.,
 MILWAUKEE, WIS.

