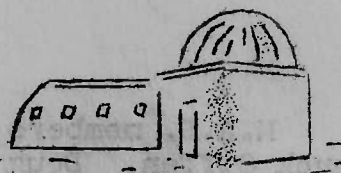


THE Jan 1962



# DOUBLE DOME

A Publication of the  
MILWAUKEE ASTRONOMICAL SOCIETY

- Meeting Notice -

The next meeting of the Milwaukee Astronomical Society will be on January 19 at 7:30 PM at the Milwaukee Public Library.

The speaker will be Dr. Leon W. Schroeder, currently a Visiting Associate Professor of Astronomy at Northwestern University. His subject will be "The Curve of Growth Applications in stellar Spectra" which is based on his current research. Dr. Schroeder is Associate Professor of Physics at Oklahoma State University, where he also obtained his B.S. and M.S. degrees. His Ph.D. was taken at Indiana University with a major in Astrophysics.

## Our Neighbor the Moon

The moon is familiar to lunaphiles, favoring to lovers, fatal to lycanthropes - and soon, perhaps, to be explored by astronauts. What do we know about our nearest celestial neighbor? "Our Neighbor the Moon", starting January 30 at 8 p.m. on WMVS-TV, Channel 10, is a summary of what we know - and what we suspect, or imagine - about the moon. The host for this of five programs is Dr. Walter Orr Roberts. He is the director of the University of Colorado's High Altitude Observatory.

Jan. 30 - "The Moon's Environment" ... Dr. Roberts introduces George Gamow, professor of physics at the University of Colorado. Dr. Gamow explains and shows the geography of the moon - or that side which we can see - and shows how this information was gathered.

Feb. 6 - "Birth of the Moon" ... Dr. Harold C. Urey is the guest on this program. Dr. Urey discusses the theories about how the moon was formed, concluding with some remarks about the relationship between the origin of the moon and that of the solar system.

Feb. 13 - "The Moon and the Arts" ... Dr. Willy Ley, a scientist whose major interest has been in rocketry and space, is the guest on this program. Dr. Ley concentrates on the influence of the moon in literature.

Feb. 20 - "The Trip to the Moon" ... Another German scientist is the guest on this program - Dr. Hubertus Strughold. His topic concerns what he calls "the challenge of the century for the physical, astronomical, and technological sciences - man's first trip to the moon."

Feb. 27 - "Living on the Moon" ... Special guest is Dr. John Rinehart, director of the Mining Research Laboratory of the Colorado School of Mines. He describes the environmental difficulties present on the moon and describes the factors that must be considered when planning a shelter for men on the moon.

Mr. George Wilson, of the Milwaukee Board of Education, writes to say that the "Star Wagon" now has Priority #1 and should be operational in 1962. The Milwaukee Astronomical Society will provide competent leadership under the Recreation Division's supervision.

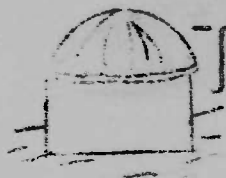
(over)

M.A.S. members home for the holidays included Doug Bash and Chuck Giffen, Doug Bash is attending Johns Hopkins University in Baltimore, and has written a reply to the letter in Sky & Telescope (p. 202 October 61) asking to here from persons interested in photoelectric photometry. Mr. Giffen is very active in A.A.V.S.O. work and has been asked to head the photographic division. When he returns east, he will take with him the 13" plate glass mirror which was loaned to our society by the A.A.V.S.O.

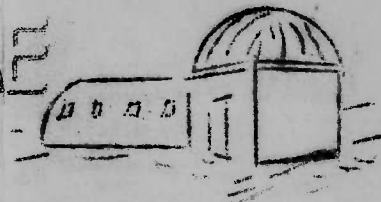
The December 26 Milwaukee Journal featured an article about a former M.A.S. member, Ronald Witalis, who spent last winter at the South Pole station of the United States weather bureau. This month he will take up graduate studies in Astrophysics at Case Institute of Technology in Cleveland; he plans further studies in at the California Institute of Technology, which is linked with Mount Wilson and Palomar observatories. When he was in our society, he was in charge of keeping records of our variable star observing program, and sending reports to headquarters at Cambridge.

The 1962 Canadian Handbook will be available again at this meeting.

MR. PAUL ZANOW,  
3373 N. FORTY-SIXTH STREET,  
MILWAUKEE 16, WIS.



# THE DOUBLE DOME



A PUBLICATION OF THE  
MILWAUKEE ASTRONOMICAL SOCIETY

## MEETING NOTICE

1962  
THE NEXT MEETING OF THE MILWAUKEE ASTRONOMICAL SOCIETY WILL BE HELD FRIDAY, FEBRUARY 16, AT 7:30 P.M. IN THE CONFERENCE ROOM OF THE PUBLIC LIBRARY AT EIGHTH STREET AND WISCONSIN AVENUE.

A FILM ON THE MERCURY SPACE CAPSULE WILL BE SHOWN. TOM POPE, HEAD OF OUR PHOTOGRAPHIC SECTION, WILL TALK ON POSSIBLE PROGRAMS FOR SERIOUS OBSERVING AT THE OBSERVATORY DURING THIS COMING SEASON. THE MOUNTING FOR THE 12 $\frac{1}{2}$  INCH "BUCKSTAFF TELESCOPE" IS BEING READIED, THE MIRROR IS JUST ABOUT FINISHED - ACCORDING TO BEN MACEK, WHO IS DOING A FINE JOB. THE COMMITTEE IN CHARGE WILL FINISH THE DOME JUST AS SOON AS THE WEATHER PERMITS.

## WORK PARTY

THERE WILL BE A WORK PARTY THE DAY AFTER THE MEETING, ON SATURDAY, FEBRUARY 17TH. IF YOU NEED TRANSPORTATION IT CAN BE ARRANGED AT THE REGULAR MEETING FRIDAY EVENING. LAST MONTH IT WAS RATHER SMALL. FOUR PEOPLE DID SHOW UP IN ZERO WEATHER AND THE FIRST ITEM ON THE AGENDA WAS GETTING THE FURNACE STARTED! FORTUNATELY OUR LEONARD SCHAEFER HAS FIXED FURNACES BEFORE, AND AFTER SOME CLEANING AND ADJUSTING, GOT THE FURNACE OPERATING PROPERLY.

BECAUSE OF BAD WEATHER IN THE AREA, DR. LEON SCHROEDER OF NORTHWESTERN UNIVERSITY, WHO WAS SCHEDULED TO SPEAK AT THE JANUARY MEETING, WAS UNABLE TO ATTEND. HE WILL SPEAK AT THE APRIL MEETING.

## GOING! GOING! -----!

RESERVED COPIES OF THE 1962 CANADIAN HANDBOOKS WHICH ARE NOT CALLED FOR AT THE FEBRUARY MEETING WILL BE SOLD TO ANYONE WHO WANTS A COPY. THEY SELL FOR \$1.00 AND CONTAIN A GOOD DEAL OF STATISTICAL DATA OF PERMANENT VALUE IN ADDITION TO PARTICULAR INFORMATION FOR THE YEAR 1962.

THE SOCIETY HAS PURCHASED A DITTO MACHINE. THIS WILL BE THE LAST DOUBLE DOME TO BE MIMEOGRAPHED ON BORROWED EQUIPMENT. WE HOPE TO CONSOLIDATE THE WORK OF PUBLISHING NOTICES UNDER ONE ROOF WITH AT LEAST THREE VOLUNTEERS TO HELP OUT. ANY ONE WILLING TO AID NOW AND THEN PLEASE SPEAK TO THE PERSON IN CHARGE AT THE MEETING. THE SAME HELPERS DO NOT NEED TO DO IT EVERY TIME. IN ADDITION TO RUNNING OFF THE COPIES ON THE DITTO THERE IS FOLDING, STAMPING, USE OF THE ADDRESSOGRAPH, AND MAILING. YOUR HELP IS NEEDED.

## CONVENTION NEWS

THE NORTH CENTRAL REGIONAL CONVENTION OF THE ASTRONOMICAL LEAGUE WILL BE HELD THE WEEKEND OF MAY 5TH AND 6TH, IN THE NEW SCIENCE HALL ON THE CAMPUS OF AUGSBURG COLLEGE AND THEOLOGICAL SEMINARY IN MINNEAPOLIS, MINNESOTA. A FIELD TRIP TO THE MINNEAPOLIS PLANETARIUM WILL BE A HIGHLIGHT, AND THERE WILL BE AN OBSERVING SESSION SATURDAY NIGHT (WEATHER PERMITTING) ON THE ROOF OF SCIENCE HALL WHERE A 12 $\frac{1}{2}$  INCH DYNASCOPE WILL BE IN OPERATION. REGISTRATION FORMS WILL BE AT OUR MEETING ON FRI. THE 16TH. BLANKS WILL ALSO BE AVAILABLE FOR ANYONE WANTING TO PRESENT A PAPER. MILWAUKEE SHOULD BE REPRESENTED BY ONE OR MORE PAPERS. THE DEADLINE FOR PAPERS IS APRIL 1ST; FOR REGISTRATION AND BANQUET, MAY 1ST. FEES: REGISTRATION \$1.00 - AND BANQUET TICKETS \$2.50. EXHIBITS ARE WELCOME.



# THE DOUBLE DOME



A Publication of  
The Milwaukee Astronomical Society

Monthly Meeting: March 16, 1962  
Time: 7:30 P.M.  
Place: Conference Room, Central Library, 8th & Wisconsin Av.

\* \* \*

The program was arranged by Harry Pease. We are to hear from Mr. Robert Seinfeld, manager of the Advanced System Research & Development for Astronautics Corp. of America. The two projects he will talk about concern a stable platform on which the ultra violet star observing equipment for the X15 rocket plane will be placed; and what is to be put in the cockpit of the Apollo spacecraft in which we hope to land men on the moon.

\* \* \*

Our president, Richard Wend, has resigned as assistant observatory director because of a change in his employment which takes him out of the city a good deal. At his recommendation, observatory director, Edw. Halbach, appointed Leonard Schaefer to this job.

Schaefer Interdict No. 1: DO NOT LEAVE DOME AND TRAPDOOR OPEN! COVER TELESCOPE!

Some people have been downright careless about locking the dome and closing the trapdoor before they leave the observatory. Also note that the star chart cabinet has been straightened out. Now let's try to keep it that way! Seven showed up at the Feb. 10th work party. How about a bigger turnout next month? Does anyone have a solid, rectangular type of kitchen table which he can donate to the society to replace the shaky one in the lecture hall?

Jerome Kunicki has taken all the photographic plates from the observatory to his home. Those who want to use them call AT2-7823 or go to his home, 2422 W. Halsey Av.

Warren O'Brien, member of long-standing, and photographer par excellence, has supplied photos of the observatory and some of the members to SKY and TELESCOPE. These should enhance a story on MAS, chiefly written by the Klimans, which is to appear in a future issue of S & T.

Mr. Martin, of the Smithsonian moonwatch program, visited recently with Edw. Halbach and attended one of our board meetings. He assured our group that this program is still serving a useful role.

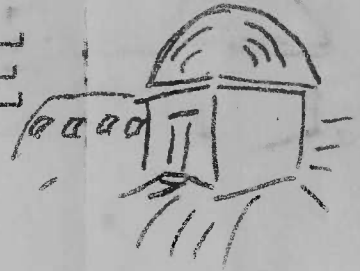
LOST & FOUND: Aerial Mapping Handbk, space mags, etc. picked up by secretary at close of February meeting. Please claim them.

The 1962 Julian Day Calendar will be distributed on the 16th. Last month's Double Dome was beautifully done by Mary Ball on her own mimeograph. Alas, this month your secretary, having possession of a new Ditto, also has the job. John Uporsky is still doing the folding, addressing, stamping, and mailing.

\* \* \*



# THE DOUBLE DOME



A Publication of  
The Milwaukee Astronomical Society

Meeting: Friday, April 20, 1962, at 7:30 P.M.

Place: Conference room, Central Library  
8th & Wisconsin Av.

\* \* \* \*

The speaker for this meeting will be Dr. Leon W. Schroeder, visiting associate professor of astronomy at Northwestern University. He is associate professor of physics at Oklahoma state university where he received his B. S. and M. S.; his Ph.D. was taken at Indiana university with a major in astrophysics. Members who are planning college careers might like to talk with him after the meeting. His subject will be "Curve of Growth Applications in Stellar Spectra".

May 1st is the deadline on reservations for the regional convention.

Mr. Schaefer reports that someone left the safe and its door wide open again! You may scorn at the few shekels we have in there, but what about the new eye pieces? Let's be more careful about closing up before leaving the building. Mr. S. has provided a new case for the eye pieces. The juniors will have a new case for their eye pieces, too. They can keep it in their 10-inch shed.

Books from our library must be returned at once for Mr. White, our librarian wishes to catalog them properly. You ought not keep out a book more than two months so as to give others a chance at it. Those who have long overdue books are about to receive notices in the mail. You could save the secretary some work and also the society some postage if you just bring them to the next meeting without being prodded.

Observatory work party April 21st. We have a nice new table in the lecture hall, donated by Lady Esther Card Shop (handled by Ken. White). Another table and chest of drawers has been given to the society by Mr. Alvin Klann. These are very much appreciated.

The 13-inch Cummings mirror belonging to the AAVSO has been transferred on loan to Charles Giffen at Princeton.

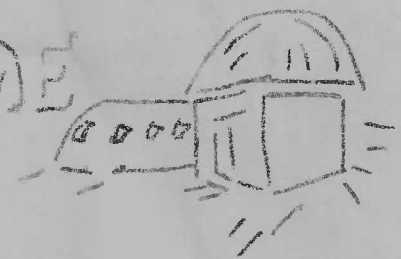
Extra copies of SKY & TELESCOPE for April can be ordered at 30¢ an issue.

Board meets April 2<sup>6</sup> at 8 P.M. at the home of Mr. & Mrs. Ralph Brichta, 4728 N. 108 St. Board members: Ralph Brichta, John Dahlberg, Richard Fink, Gale Highsmith (resigned), Stephen Kliman, David Knaup, Wm. Konig, Carl Matthies, Harry Pease, John Uporsky, Richard Wend.

\* \* \*



# THE DOUBLE DOME



A Publication of  
The Milwaukee Astronomical Society

Monthly Meeting: May 18, 1962  
Time: 7:30 P. M.  
Place: Conference Room, Central Library, 8th & Wisconsin Av.

\* \* \* \*

Once a year we should forego the pleasure of an interesting program and devote time to business matters, so, shame on those members who were best they be appointed to do some job.

The Board of Directors met at Mr. [redacted]'s home on April 29th. They appointed Mr. [redacted] as nominating committee.

The following dates are [redacted] open house nights at the observatory.

Date	Chairman of staff for evening
June 25	William Albrecht
July 9	Carl Matthies
July 23	Leonard Schaefer
August 13	William Konig
August 27	Ralph Brichta

These chairman are looking for volunteers to help them on their particular night.

Part of the May meeting will be used to set up an observing schedule for members who wish to use the observatory regularly. Those wishing a particular night must make their wants known at this time.

Messrs. Albrecht, Schaefer, and Halbach have installed the gun mount on the top of the pier on the new atellite shed. All instruments are locked in the dark room. Only Messrs. Schaefer and Halbach have keys. The boys who mowed the lawn at the observatory should stand and be recognized at our next meeting.

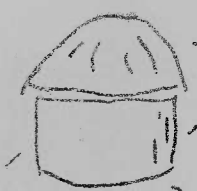
We will probably have a picnic in June but the date will have to be set.

The Land Committee (Messrs. Glaser, Halbach, Albrecht, and Wend) will make a report.

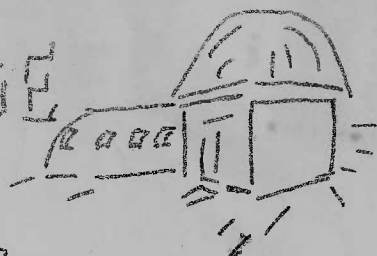
Mr. Schaefer reports that he is looking for a donation of bunk beds or folding cots for the observatory. These would be useful to observers who find overnight stays necessary.

The Board wishes to make it known that membership in this society does not automatically include full observatory privileges. A member who wishes a key must work with a senior member and demonstrate what he can contribute to the observing programs.

\* \* \* \*



# THE DOUBLE DOME



A Publication of  
The Milwaukee Astronomical Society

SUNDAY, June 24, 1962 - Our annual PICNIC

This is a family outing. Bring your supper with you. We'll eat about 5 P.M. Bring play equipment for the children. Starting about 2 P.M. we will organize an observers group of those interested in learning to use the observatory equipment. The training committee leaders: C. Matthies, K. White, J. Walsh. We are anxious to get this training program started now. Wear your name tag.

New committees: Instruments - R.Fink, W. Konig; Variable star - A.R.Ball; Planetary - P. Glaser.

Finance: W. Kliman, Chm.; Mr. & Mrs. Klann, J. Dahlberg, W. Albrecht. Perhaps this group can get together for a short starter meeting at the picnic.

At 6:30 our guest speaker, Mr. Elmer Rexin, plant mgr. of Numm Bush Shoe Co., will talk about his discoveries with their well seismograph. \*\*\*

We must give our thanks to Harold Anschuetz, prod. V.P. of Ken Cook Co., for printing 3000 copies of the SKY & TEL story on MAS. These reprints will be available at the picnic and will be used in conjunction with our open house nights. Those who give talks before civic and other groups might use them, too.

Open house committee: D. Knaup (SU2-6226) J. Dahlberg (SU6-8933) R. Brichta (HO3-9262)

Open House Dates	Staff in Charge
June 25	Albrecht, Chm. Uporsky, Henschel, Seaman, Long, Collins, Simandl, White (ED2-5258) McLaughlin
July 9	Matthies, Chm. Henschel, Collins, Simandl, White, Schaefer, McLaughlin (SP4-8334)
July 23	Schaefer, Chm. Matthies, Collins, Schaefer, White, McLaughlin, Simandl (SU6-8773)
Aug. 13	Konig, Chm., Schaefer, Collins, Henschel, Simandl, White, McLaughlin (S02-7000 Ext. 2369)
Aug. 27	Brichta, Chm. Henschel, Collins, Simandl, White, McLaughlin, Schaefer (HO3-9262)

These chairmen could use more help. Please call one of them if you want to add your name to the list on any of the nights.

1962-3 Board of Directors: Messrs. Brichta, Dahlberg, Fink, Glaser, Kliman, Knaup, Konig, Matthies, Pease, Schaefer, and Wm. Albrecht, Chm. (ED2-5258)  
H. Cornell, ex officio

Officers:  
Observatory director, E. Halbach, Leonard Schaefer, asst. dir.  
Wm. Albrecht, pres.; C. Matthies, V. P.; A. R. Ball, Treas.; Carolyn Kliman, Secy.

Your Picnic Committee: Wm. Konig (S02-7000 Ext. 2369) and John Uporsky (GR6-1467)  
If you need transportation, call one of the members listed here; they will be glad to take you along.

Sept 1962



THE

# DOUBLE DOME



A PUBLICATION OF  
THE NORTHERN ASTRONOMICAL SOCIETY

September 21st Meeting

Dr. A. D. Code, Director of Astronomy at the University of Wisconsin has promised to speak for this meeting. Because the school year has begun and all personell not available, he hesitates to name his speaker. He gives the title of his talk. However, he has assured us a speaker will be available.

Congratulations to our satellite observing group who were watching for and observed the fall of Sputnik IV. Through their efforts and the prompt work of Ed Halback, our director, in notifying the Northern Wisconsin communities, it appears that a portion of the vehicle has been located in Manitowoc.

Gale Highsmith, Len Schaeffer and Raymond Zit recorded the fall. Gale Highsmith carried the piece of material to the Smithsonian Astrophysical Observatory for their tests.

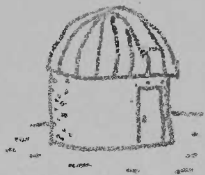
Our Society will be host to the Astronomical League Convention in 1965.

The observing program has picked up and some work is being done every night at the observatory. Let us continue and expand these efforts.

One thanks to the many members who worked at the fine open house nights held this summer. We hope to solve the parking problem before next season.

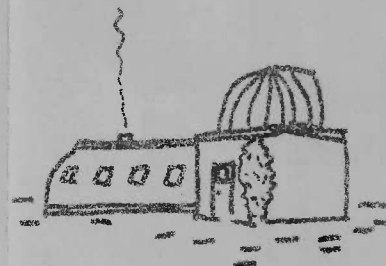
Remember Saturday, September 22nd, is a work day at the observatory. Come prepared to spend the day. Soda and sweet rolls will be supplied.





THE

# DOUBLE DOME



A PUBLICATION OF  
THE MILWAUKEE ASTRONOMICAL SOCIETY

October 19, 1962

The October meeting of the Milwaukee Astronomical Society will be held at the Conference Room of the Main Library at 7:45 AM, October 19, 1962.

Mr. E. A. Halbach, our observatory Director, and Mr. Gale Highsmith, the Moon Watch computer, will explain their and our Society's part in the recent fall of Sputnik IV.

They will relate the observations made of the Sputnik's travel over Wisconsin, actual pieces being found, and show maps of the probable location of the main body in Lake Michigan.

Mr. Gale Highsmith recorded what appears to be the final orbit of 1962 Iota II. He saw this Russian satellite pass SW to NE at 6:35 PM, CST, on Oct. 6th at Azimuth  $60^{\circ}$ . This apparently was the last sighting made on this object.

On Saturday afternoon, Oct. 20, 1962, we have invited the Kenosha Amateur Astronomers to inspect our observatory and facilities. They are interested in learning all they can about our Society. So please show them every curtesey.

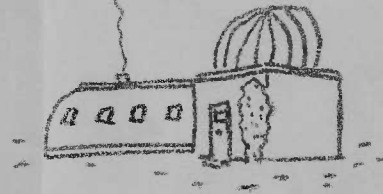
This Saturday, October 20th, is also a work day at the observatory. So please come prepared to do some work.

Len Schaefer has been instructed to get prices on a well and the installation of sanitary facilities at the observatory. This would be of considerable benefit to all.



THE

# DOUBLE DOME



A PUBLICATION OF  
THE MILWAUKEE ASTRONOMICAL SOCIETY

November 16th Meeting

1962

Dr. John Neff of the Yerkes Observatory will address our Society at our meeting on November 16th at 7:45 AM, at the conference room at the Fairgrounds. The subject will be "Stellar Distances and the Spiral Structure of the Galaxy."

Many of our members will remember John as one of our illustrious alumnus who has made astronomy his life's work. He was very active on our observatory staff in the early 1950's. John made the mirror for the telescope we used on our Eclipse Expedition to Canada in 1953. He also contributed much to the pleasure our whole group experienced.

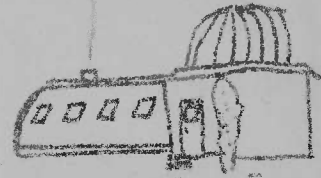
A work party will be held on Saturday, November 17th, 1962, at the observatory. The attendance at the last work party was very disappointing. We hope more will make a sincere effort to come out for this next work party.

A pair of eyeglasses was found in the parking lot by A. R. Ball. They will be brought to the Nov. 16th meeting.



THE

# DOUBLE DOME



A PUBLICATION OF  
THE MILWAUKEE ASTRONOMICAL SOCIETY

FRIDAY, DECEMBER 21, 1962

The last meeting of 1962 will be held in the Trustees Room of the Main Library. Dr. Stephen Klipman will be our speaker. His subject will be "The Heliocentric System, Its Acceptance and Consequences." This history of Copernicus and his times should be most interesting.

Our Society as a group is held together by the common bond of interest in astronomy. Due to the wide difference in knowledge of the subject within our group, some members find it difficult to get acquainted. They want to participate in activities but are afraid to come forward. An opportunity has now presented itself for all who want to participate.

The Public Library, The University of Wisconsin-Milwaukee, and The Milwaukee Vocational School are sponsoring a discussion series called "The Exploration of the Universe." WISN on Channel 10 will carry eleven 30 minute sessions. The speaker will be Dave Garrovey who is also an amateur astronomer.

The fee will be \$10.00 which includes the cost of two text books. These books will provide the required reading before each meeting. The meetings will be held at UWM Downtown starting Wed., Jan. 23, 1963, through April 17, 1963. A discussion leader will be provided to guide the meetings but not to lecture.

The same TV program will be presented at 3:30 PM Mondays and at 8:00 PM Wednesdays. The final program will be a visit to our observatory on April 17, 1963. Arrangements to participate in this program will be discussed further at this meeting.

THE SEASONS GREETINGS TO ALL!