MD-DC JUNIORS REPORT

The Md.-D.C. Juniors had their 10th Anniversary on October 9. We surprised Mr. Holloway with a short celebration, where we gift-wrapped his hub caps and presented them to him in honor of his ten years as Junior Director. After demonstrating his fine health by blowing out all ten candles on the cake, Mr. Holloway went on to give a talk on computers and their use, and added a little history.

Beforehand, the problem of a membership drive was mentioned but not discussed, so it will be brought up in November, when we will have an important business meeting. All members and prospective members should plan to attend.

After the lecture a committee was appointed to replace Mr. Holloway's hub caps.

Mark S. Goldberg
MD-DC Junior Editor

TELESCOPE PROJECTS

In response to many inquiries on Maksutov-Cassegrain telescopes Roy Walls has written an article describing several types of instruments constructed by NCA members in his classes. It is quite informative and also should be a source of encouragement to those who would like to tackle one of these instruments but are a bit apprehensive, perhaps only because of the name. The article was too long to include in STARDUST and therefore will be issued separately.

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Library,
Naval Observatory
Washington 25, D.C.

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RADIO ASTRONOMY AT THE NAVAL RESEARCH LABORATORY

At the November meeting, Dr. Robert W. Hobbs will present a program describing some of the current research efforts at NRL. Dr. Hobbs is presently the head of the Millimeter Wave Astronomy Section at the Naval Research Laboratory and is engaged in radio-astronomical studies at 9.5 and 1.3 mm. wavelengths.

Dr. Hobbs first joined NRL in Sept. 1964. At that time he pursued studies at 3.6 cm. for which he designed and constructed a low-noise maser radiometer which was used with the 50-foot and 85-foot antennas to study cosmic radio sources. Prior to that time, Dr. Hobbs was engaged in 3.75 cm. work as a graduate research assistant at the University of Michigan and as a summer employee at the National Radio Astronomy Observatory, Green Bank, West Va. (Continued on p.2)

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CALENDAR

NOVEMBER 5

RADIO ASTRONOMY AT THE NAVAL RESEARCH LABORATORY by Dr. Robert W. Hobbs in the Department of Interior Auditorium at 6:15 P.M. (The Interior Department is located on D. St. between 18th and 19th Sts.) Business following the lecture.

DINNER WITH THE SPEAKER at 6:15 P.M. For further information and reservations, please call Mr. Anderson at 62-6-6324.

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12 MD-DC JUNIORS meet at 2:00 P.M. in the Chevy Chase Library. There will be a discussion of the October 29th Lunar Eclipse and an important business meeting.

12 OBSERVING NIGHT at the NCA Five Inch Telescope on the grounds of the U. S. Naval Observatory, with Larry White, from 7:30 to 10:30 P.M.

19 DISCUSSION GROUP ON VARIABLE STARS to be led by Mr. Sterling Anderson in Room 2062 of the Commerce Department at 8:15 P.M.

1, 11, 18, 25 TELESCOPE MAKING CLASS at the Chevy Chase Community Center with Roy Walls from 7:30 to 10:00 P.M.

1, 18 TELESCOPE MAKING CLASS at McLean H.S., McLean, Virginia. With Grady Whitney at 8:30 P.M.

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Nov. 7, 1966

U.S. NAVAL OBSERVATORY
Dr. Robert W. Hobbs received his B.S. in Physics, 1960, from Case Institute of Technology, M.S., Astronomy, 1962, and Ph.D., Astronomy, 1964, from the University of Michigan at Ann Arbor, Michigan. He is a member of several professional societies and is a regular contributor to the scientific literature.

NOVEMBER LECTURE - THE NASA LUNAR ORBITER PROGRAM

Dr. Martin J. Swetnick, NASA Lunar Orbiter Program Scientist, presented a comprehensive and very exciting report on the history, objectives, and development of the Lunar Orbiter Program and an up-to-date commentary on the results of the recent first mission, as inferred from preliminary post-flight analyses of a few of the many photographs transmitted by this artificial satellite of the moon. Dr. Swetnick showed slides and a film outlining the broad objectives of the program and describing how many of the complex scientific and engineering challenges were met to bring this first mission to a highly successful conclusion. He described how the photographs made during the overflights of the Surveyor I landing site complemented the TV. coverage of the Surveyor spacecraft and how they will enable scientists to obtain a very fine description of the lunar topography in this region. The talk was climax by the showing of several large reproductions of photographs taken by the onboard cameras. The resolution and clarity of these photographs cannot be described. They must be seen. Outstanding among this set of photos was one of a region of the "dark" side which showed a new type of topographical feature and the first photo of the earth's disc (at about quarter phase) with the lunar surface in the foreground. We look forward to the success of subsequent Lunar Orbiters and the return of Dr. Swetnick to report on them.

LEONID METEOR SHOWER

The first major Leonid shower since 1932 may occur this month. The date and time of Maxumim (The Observer Handbook) is the 16th of November at 20h B.S.T. Leo rises about midnight on the 16th. The moon is at first quarter and sets at 20h 09m. Members may be interested in an article on the Leonis in the November 1966 issue of NATURAL HISTORY magazine.

NEW MEMBERS

Jeremiah M. Kelleher
12th Quebec St.
Silver Spring, Md. 20903

Mary Ann Moffett
9506 Monroe St.
Silver Spring, Md. 20910

Edward Korns
1202 Eastbourne Dr.
Silver Spring, Md. 20904

Patricia Poppolo
9309 Glenville Rd.
Silver Spring, Md. 20902

Mark Mills
4238 39th St. N.
Arlington, Virginia 22207

OUR NEW TREASURER

Robert Bolster is the new treasurer of the NCA. After receiving a BS Degree in chemistry at the University of Va. and serving with the Navy for three years, he joined the Naval Research Laboratory in 1961. He is a research chemist in the Surface Chemistry Branch, and a Lieutenant in Naval Reserve Research Co., 5-9. Mr. Bolster occasionally turns his hand to telescope making, and has made a 6 in. Newtonian, a 5 in. Schmidt camera, a 6 in. Makarov, and a couple of flats. Currently, he and Jerry Hudson are working on an astrophotograph and a microdensitometer for use in stellar photographic photometry. Mr. Bolster has participated in most of the recent unmanned lunar exploration expeditions, and frequently assists at the NCA park programs. Although astronomy is his principal hobby, Mr. Bolster is also an expert in target pistol competition and a life member of the NCA.

THE NEW VICE-PRESIDENT

STERLING R. ANDERSON (A '41-H '55) was born in Toledo, Ohio, on December 6, 1916. He received the B.S. degree in electrical engineering and the B.S. degree in engineering mathematics from the Un. of Michigan, Ann Arbor, in 1940. From 1940 to 1945 he was employed by the Naval Research Laboratory, Upper Montclair, N.J., where he designed and adjusted directive antenna arrays for broadcasting stations. Serving as Chief of the Transmitter and Antenna Branch of the W. S. Civil Aeronautics Administration Technical Development Division, Sterling, Ind., from 1942-1959, he worked on antennas and associated equipment for air navigation radio aids. In January, 1950, he assumed his present position as Chief of the Continuous Wave Navigation Section in the Navigation Development Division, FAA, Washington, D.C. He helped develop the WIP Omirange, the Doppler Omirange, and a Loran ( A M C ) signal simulator.

JUNIOR DIVISION NEWS

At the special meeting of the Junior Division held just prior to the October Lecture, we discussed how we might encourage the interest of the Junior Division. We decided to set up a tri-regional committee to try to solve this problem. It was suggested that information concerning the Junior Division be sent to all area high schools along with a copy of "Project World Night." Mr. Holloway is reorganizing the "Special Phenomenon Alerting Network." Interested persons should contact Mr. Holloway.

Reminder: All Juniors are urged to write a paper for the convention. Remember this is your chance to show the entire nation what the NCA Junior can do. So come on y'all let's get to work.

All Juniors are urged to come to Junior Division meetings and to participate in the activities of their region. If you are a Junior member and do not know which region you should be in or where and when your region meets, contact Mr. Holloway, Director of the Junior Division, at 362-1961.