

MD-DC JUNIORS - Continued

Due to the Junior Division sponsored trip to Philadelphia on December 12, no regular meeting will be held, and no dues will be owed. All members are urged to reserve their seats on the bus.

Recent optimistic communications have been held with Mr. Arthur Smith, J the President of the Astronomical League, about the proposed Junior Federation; other letters are being sent to appropriate authorities. A progress report will be presented at the December 5 meeting.

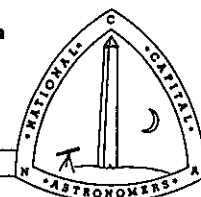
Norman Sperling  
MD-DC Junior Editor

JUNIOR DIVISION NEWS

At a special meeting of the Junior Division held just prior to the November lecture, members nominated two candidates, Ellie Matter and Doug Richstone, for the office of Secretary-Treasurer to replace Steve Camp who resigned last month. The election will take place at the January general meeting of the Junior Division. In the meantime Travis Taylor appointed Doug Richstone as an interim Secretary-Treasurer until this election.

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LABORATORY SIMULATION OF THE MARTIAN ATMOSPHERE



Father James E. O'Brien, a Doctoral Candidate in the field of Astronomy at Georgetown University, will be the December NCA speaker. Father O'Brien is currently working on a very interesting study of planetary atmospheres and will present some techniques used in this investigation. He will describe in particular his studies on the Martian Atmosphere.

Father O'Brien attended Loyola College from which he received a Bachelor of Science Degree. His Masters degree, in the field of Physics, is from John Carroll University in Cleveland.

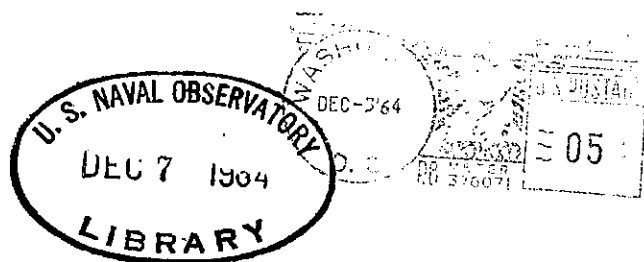
During World War II, Father O'Brien served as a Radio Operator with the U. S. Navy 7th Fleet in the South Pacific. Following the war he continued his education

spending two years in the study of engineering. In 1949, he joined the Jesuit Order, and was ordained in 1962.

CALENDAR

- December 5 Father James E. O'Brien of Georgetown University Observatory will present an illustrated lecture on "Laboratory Simulation of the Martian Atmosphere", at the Commerce Department Auditorium. 8:15 p.m. Business Meeting follows lecture.
- 12 NCA Juniors Sponsoring Trip to Edmund Scientific and Fels Planetarium, depart Commerce Department Bldg. 8:15 a.m. return 9:30 p.m.
- 7,14 ASTRONOMY COURSE at the Naval Observatory with John Stolarik. 8:15 p.m.
- 1,8,15 TELESCOPE MAKING GLASS at the Chevy Chase Community Center with Hoy Walls 7:30 - 10:00 p.m.
- 4,11,18 ADVANCED TELESCOPE MAKING GLASS at the Chevy Chase Community Center with Hoy Walls 7:30 to 10:00 p.m.
- 28 Prince Georges County Juniors (PGCJ) Meeting and Christmas Party. All NCA Juniors living in the County try to attend, 2 p.m. - 6 p.m. 2104 - 32nd Place, S. E. R.S.V.P. 582-6721. Ted Noble, Adult Leader.
- January 9 Dr. Marjorie Gardner of Maryland University who is a member of the Planetarium Committee, will bring us up-to-date on the plans and progress of the Major Planetarium for Washington, D.C. There will be an informal discussion questions and answers.
- 9 There will be a general meeting of the Junior Division of NCA in room 2062 of the Department of Commerce at 7 p.m.

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Library,  
Naval Observatory  
Washington 25, D.C.

## NOVEMBER LECTURE -- RADIO TELESCOPES AROUND THE WORLD

At our November meeting, Dr. Everett H. Hurlburt of the National Science Foundation showed color slides of radio telescopes he has visited in the United States, Great Britain, France, Australia, Puerto Rico, and many other countries. The varied design and world-wide distribution of these instruments indicates that radio astronomy has matured into a major science from its crude beginning just about thirty years ago.

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Leith Holloway

## NCA PHILADELPHIA TRIP --- DECEMBER 12, 1964 ----- COME WITH US.

We are ready to make the final plans for departure on Saturday, December 12. The Juniors need the support of the Senior Members in this venture. Any profit from the trip is to be used in connection with the coming Middle East Region, Astronomical League Junior participation. The trip is a fun trip as well as educational and there are some nice surprises planned for us along the way. Seven (\$7) dollars takes you round trip and pays your admission in the Fel Planetarium.

Bus will leave from Commerce Department at 8:15 a.m. returns at 9:30 p.m.

Please phone Travis Taylor, JA 2-5136 or Mrs. M. Noble Lu 2-6721 to indicate your desire to join the group.

Pay by check or money order to help in the bookkeeping. BRING A FRIEND-----HELP TO FILL THE BUS TO PHILADELPHIA

## TIMETABLE OF THE HEAVENS ----FREE FOR NCA MEMBERS

A copy of the Timetable of the Heavens is available for all members, no charge, compliments of NCA. Extra copies for friends may be purchased for 35 cents. Get your copy at the December 5 meeting. Mr. Fred Cornelius and Mr. Charles Cook will check them out. Junior Members please see your Junior Representative for your copy. Copies may be picked up before the meeting and during intermission.

## NCA MEMBERS AND THE NASA MOON PHENOMENA PROGRAM

We are honored to be able to participate in the confirmation of observations of transient lunar phenomena. Mr. Larry White, NCA Observation Chairman, is the Director of our group. Dr. Bob Bolster, Mr. Cardon, Mr. Bob Wright, Mr. Roy Walls, Mr. Bill Pala, Jr. and Mr. Lyle Johnson have volunteered to work on the project. If you have considered doing some of this interesting work, please phone Mr. Alexander White, 533-3261, for details. A six-inch or larger telescope is considered adequate for the present work.

## APPLYING FOR NCA MEMBERSHIP-----

The following people applied for NCA membership at the November meeting. Under the new procedure, persons applying for membership will be listed in STARUST for the consideration of all NCA members. Membership is then voted on at the next regular meeting. If you have any comments about the applicants, please contact a Trustee or an Officer of NCA before the night of the December meeting when the voting takes place.

## APPLYING FOR NCA MEMBERSHIP - Continued

Luc A. Guinand  
12319 Manuel Lane  
Bowie, Maryland

Maj. Richard B. Stuart  
Qtrs. 62A, Apt. 3  
Ft. Lesley J. McNair  
Washington, D.C. 20315

Mrs. Marion M. Haberman  
400 Lincoln Avenue  
Takoma Park, Maryland 20012

Edison J. Engle  
1024 N. Livingston St.  
Arlington 5, Virginia

Elwood A. Schafer  
Rt. 1, Box 42  
Newberg, Maryland 20664

Michael Jewell  
7525 Westwood Court  
Clinton, Maryland

## NCA GIVES SERVICE ----

The Boy Scout Commissioners have asked NCA to help train some Boy Scout Leaders in "Finding Stars and Constellations". Mr. Larry White helped in the Alexandria area and Mrs. Margaret K. Noble with the help of a D.C. Science Consultant, Mr. Stewart Henley and a teacher from the Amidon School, Miss Gloria Elylock assisted in the Washington, D. C. area. If you have time to serve in this way, please contact Mrs. Margaret Noble, your help is needed.

## HAVE YOU -----

Dialed 737-8855? Smithsonian Institute has a very interesting recorded report on space vehicles in orbit and satellites visible in a 100-mile radius of Washington, D. C. You will enjoy phoning 737-8855, why not dial it now.

## NOTE PLEASE -----

JANUARY LECTURE WILL BE ON JANUARY 9, 1965.



Viewing the December 18 Lunar Eclipse?? Are you interested in viewing the eclipse with an NCA Group? There are several being organized and plans being made for making photographic records. Let's discuss this matter at the business meeting. William Pala, Jr. took the accompanying photo of the December 30, 1963 Lunar Eclipse, at 4:37 a.m.; 1/20 second, f2.8 cam. 18 mm. eye piece on 6" (f8) telescope.

## MD-DC JUNIORS

The MD-DC Juniors heard Mr. Hank Hudson of NASA and the Virginia Juniors speak on OAO and OSO on November 14. His talk, illustrated by slides, enlightened the audience about the methods the Civilian space agency is using for astronomical measurements.

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