

At that meeting, our new officers were elected. They are : Coordinator- Norm Sperling; Secretary- Doug Richstone; Treasurer- Henry Shapiro; and Data Keeper - Ken Ritvo. We are also pleased that Steve Camp was elected Secretary-Treasurer of the Junior Division.

In addition to the film project, our library, Project World, regional observing parties, and better publicity for our monthly lectures, our activity in the coming year will center on planning and hosting a convention of all the Junior astronomy clubs in the six Middle Atlantic States. Juniors' papers will be presented and symposia will be held; tours, lectures and a business meeting will round out the program, which is tentatively planned for a holiday weekend during the next school year.

Our next meeting will be in the Cleveland Park Library on June 13 at 2:00 P.M. The long awaited discussion on regional activities, goals, position, and future will be led by Mr. Holloway. All members who think we should or should not do something, as well as those interested in what others have to say, should attend.

Norman Sperling -- MD - DC Junior Editor

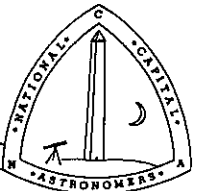
**JUNIOR DIVISION ELECTS OFFICERS**

At their May general meeting the Juniors elected Travis Taylor President; John Geweke, Vice-President; and Steve Camp, Secretary-Treasurer of the Junior Division.

**FOR SALE:** 3-inch Unitron Altazimuth refracting telescope in good condition. \$140. Call Norm Reitmeyer 582-8881.

579

★ STAR DUST



JUNE 1964

Vol. XXI No. 10

NATIONAL SCIENCE FOUNDATION LOOKS AT ASTRONOMY AND ALLIED SCIENCES



Dr. Marjorie Williams

At the June 6, lecture meeting, you will be brought up-to-date on the role of the National Science Foundation in Astronomy and other Sciences. Dr. Marjorie Williams has a keen insight into many science problems because of her wide experiences, and can therefore give us a very intimate view of this helpful organization. She was appointed Assistant Program Director for Astronomy, Division of Mathematical, Physical and Engineering Sciences in 1959. Other positions held prior to this appointment include Professor and Chairman of Astronomy Department and Director of Smith College Observatory and eight summers of work at Maria Mitchell Observatory, Nantucket, Massachusetts.

Dr. Williams is a member of the American Association of University Women, she is also a member of the American Astronomical Society, the Variable Star Observers, and Sigma XI. She served as the New England Chairman of the American Friends Service Committee and in 1948-49 did volunteer work for this organization in Germany.

CALENDAR FOR JUNE

- 6 NATIONAL SCIENCE FOUNDATION lecture by Dr. Marjorie Williams 8:15 P.M. Department of Commerce Auditorium. Business meeting follows.
- 13 MD-DC JUNIORS meeting at 2:00 P.M. at the Cleveland Park Branch Library, Conn. Ave. at Macomb St., N.W. Discussion of Region plans led by Leith Holloway. Come prepared to contribute suggestions.
- 20 EXPLORING AND PHOTOGRAPHING THE SKY in connection with the National Park Service. Ft. Reno Park at 9:00. Bring your telescope.
- 24 SPECIAL LUNAR ECLIPSE PROGRAM in connection with the National Park Service at Ft. Reno Park at 9:30 P.M. Bring your telescope and camera with film of ASA 200 or higher to make your own telescopic sequence of the moon's emergence from total eclipse. For information call Bob McCracken at OL 4-3321.
- 19-25 PLANETARIUM ASTRONOMY FOR NCA JUNIORS see page three for details.

Published monthly except August by and for members of the NATIONAL CAPITAL ASTRONOMERS, INC., a non-profit, public-service organization promoting interest and education in astronomy and the related sciences. President, Mrs. John Solorik, RE 6-4321; Vice President, Mrs. Margaret Fox, MD 3-1017; Secretary, Theodore T. Noble, Treasurer, Arthur D. Estess, Jr., Editor, and Robert H. McCracken, Assistant Editor, Robert Fine, Distribution, Morton Schiff. Photography and Production, Sam C. Feld, Jr. Deadline: Tenth of preceding month.

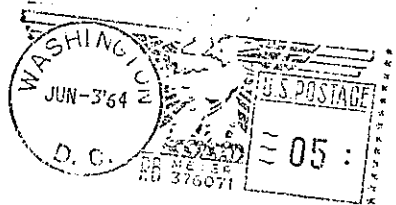


★ STAR DUST

WASHINGTON, D.C.

Theodore T. Noble, Treasurer, Arthur D. Estess, Jr., Editor, and Robert H. McCracken, Assistant Editor, Robert Fine, Distribution, Morton Schiff. Photography and Production, Sam C. Feld, Jr. Deadline: Tenth of preceding month.

Library,  
Naval Observatory  
Washington 25, D.C.



NEW OFFICERS ELECTED

At the May meeting the following new officers were elected:

- President .....Mrs. Margaret Noble
- Vice President.....Morton Schiff
- Secretary.....Theodore Noble
- Treasurer.....Frederick Cornelius
- Trustee.....Mrs. Ellen Stolarik

Congratulations to these new officers.

MAY MEETING

At the May NCA meeting, Mr. Victor Schrader demonstrated the multicolor transparent celestial and terrestrial globes manufactured by the Farquhar Company of Philadelphia. These globes come separately or combined in a model having a concentrically mounted transparent earth rotating inside a 14- or 20-inch star globe. A movable sun pointer and horizon ring is also included. This unique teaching aid provides the student with a three dimensional picture of our planet in space. These globes are made by first printing the star charts or geography on a flat piece of plexiglass by means of a silk screen process. Then the sheet is heated and blown into the shape of a hemisphere. Two such hemispheres are Scotch-taped together to form the finished globe.

Leith Holloway

NCA SCIENCE FAIR WINNERS

Again this year the NCA wishes to recognize outstanding Science Fair Exhibits in the field of Astronomy. Judging the regional fairs for NCA Margaret Noble, Ted Noble, Eleanor Smith, and Ellen Stolarik selected the following winners who will be at the June meeting to receive their award certificates and show their exhibits.

- Prince Georges County - Barbara Blair
- Alan Comulada
- Patrick Callis
- Montgomery County - Norman Sperling
- District of Columbia - Ernest Goodwin
- Thomas Hysong
- Virginia - Alan Gillespie
- John Geweke
- John Spilker
- Eleanor Matter
- Travis Taylor

JUNIOR BIOGRAPHY

Butch Goodwin, retiring President of the Junior Division, won NCA membership as a result of his science fair project in 1961. This year he took second place in astronomy in the D.C. Science Fair. He is a senior at Woodrow Wilson High School where he has been president of the astronomy club since 1962. Butch was the MD-DC Coordinator and Junior editor from 1962-63. He built his 8-inch reflector in Hoy Walls' telescope making class. Next year he will attend the University of Arizona to play football and major in astronomy.



Butch Goodwin

PLANETARIUM ASTRONOMY FOR NCA JUNIORS

Have you registered for "Planetarium Astronomy"? This short course is for NCA Juniors only and is being held at the D.C. Public Schools Planetarium at Cardozo High School, 13th and Clifton St., N.W. The short course will be held for five days, from June 19 through June 25, from 9:30 a.m. to 2:00 p.m. Bring your own bag lunch, we will eat lunch under the stars in an air-conditioned planetarium. There is no charge or fee, no textbook, the only requirement besides belonging to NCA is a willingness to work. A small research type project will be worked on and presented in the Planetarium by the students. If you are interested and have not registered, please do so at next NCA meeting. Deadline for registering June 6, VIRGINIA JUNIORS

At their last meeting the Virginia Juniors learned about the latest alphabetical triplets of the National Aeronautics and Space Administration - the OSO and the OAO - from Mr. Henry Hudson, a lecturer for NASA. In this illustrated lecture, which he gave previously before the Southeast Regional Convention of the Astronomical League, Mr. Hudson told us that the Orbiting Solar Observatory (OSO) will be used to study the sun in wavelengths which are screened out by the earth's atmosphere, such as the ultraviolet end of the spectrum. Indications of what results are expected come from observations of balloons which have taken remarkable photographs of the solar surface from 100,000 feet. The Orbiting Astronomical Observatory (OAO), using a metallic mirror and an orientation system accurate to 0.2" of arc, will analyze the spectrums of various objects using a photocell mechanism. This will provide astronomers with accurate pictures of starlight from above the turbulent atmosphere. The better part of one of the movies shown was concerned with the fabrication of the optical system of the 36" modified cassegrainian, and was of great interest to the frustrated mirror grinders of the group.

The two Virginia Juniors participating in the National Science Fair held last month in Baltimore did quite well. Eleanor Matter, with a study of the planet Jupiter, won a First Place, the only First ever awarded to a Northern Virginia participant, a \$100 "Wish Award", a NASA certificate, and a trip to a NASA installation in California. Doug Lind, entering in the Mathematics division, won a Third Place, a \$50 "Wish Award", an Air Force Plaque, and an invitation by the Air Force to work this summer in the field of computers at the Aerospace Research Lab in Dayton, Ohio.

The entire group won a Second Place in the club exhibit at the Virginia Junior Academy of Science state meeting at Charlottesville. Their project, "A Three Dimensional Hertzprung - Russell Diagram", will be on display at this month's general meeting. At the same meeting, John Geweke won a Second Place in Astronomy for his paper on measuring lunar heights, and David Coomber was selected as one of the fifteen winners in the Virginia State Science Talent Search.

Doug Lind - Virginia Editor

MD-DC JUNIORS

An engrossing lecture on the various theories of the creation of the universe was given by Mrs. Ellen Stolarik, NCA President, in the Cleveland Park Library on May 9. Cosmology presented the five major proposed explanations, their merits and their faults, and the suggested methods of proving or disproving them.