

## JUNIOR DIVISION NEWS

On Saturday afternoon, February 13, at the Chevy Chase Community Center, Dr. James J. Krebs of the Naval Research Laboratory will speak on "The Maser and Radio Astronomy". This topic will be of interest to anyone who is intent on exploring the field of Radio Astronomy, the newest branch of astronomy. Dr. Krebs is an expert on paramagnetic substances and does important research on this subject at N. R. L. ALL Juniors are urged to attend this lecture, one of the most unusual of the Junior lecture series this year.

## EDITORIAL

Because of my conflicting activities, including battling the college entrance rush, I find it necessary to resign my duties of the past year as Junior Editor. Before parting, however, I wish to thank Miss Betts, Miss June LoGuirato, all of the officers of the Junior Division, and, of course, Mr. Leith Holloway, for all their help in inaugurating this column and keeping it running. Also, thanks to Mrs. Griffith for putting up so long for missed deadlines and bad writing.

The new Junior Editor is Jim Harrison, a new member, who, we are sure, will improve the column immeasurably; we wish him the best of luck.

Steve Klingelhofer  
Junior Editor

## VIRGINIA JUNIORS

Several of our members have recently been photographing various astronomical objects. Two slides of the October solar eclipse were taken by Eddy Lusby and various other members have obtained photographs of the sun and moon. We hope to expand this phase of observing during the coming year.

Our 26th meeting, on January 22, marked the Virginia Junior Group's First Anniversary. We are proud to have completed our first year and, with our interested memberships, we have the potential to contribute to the field of astronomy.

June LoGuirato  
Va. Jr. Editor

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Not wishing to call attention to the recent criticism of STARDUST and still fearing to avoid the issue, the Editors of this paper most certainly wish to inform the world that this paper may be a number of things, but it is NOT censored. If we have omitted any important news, we apologize to our readers. If we have betrayed any former editorial policy, we must confess ignorance and if we have ignored any issue, we must blame Shakespeare who, long ago, taught us that "discretion is the better part of valor".

The Editors

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579

# ★ STARDUST

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## GALACTIC CLUSTERS TO BE SUBJECT OF NCA TALK



The NCA will be proud to welcome Dr. Otto G. Franz as our speaker for February. His topic will be strictly astronomical, GALACTIC CLUSTERS AND STELLAR EVOLUTION. Clusters provide astronomers with a powerful tool for research into the evolution of stars. In his lecture, Dr. Franz will disclose some of the facts that astrophysicists have learned about the distribution of temperature, intrinsic brightness, mass, and composition of cluster stars and how this information has contributed to new theories of stellar evolution. He will also explain the use of the Russell-Hertzsprung diagram and the meaning of Population I and II stars.

Dr. Franz is an astronomer in the Astronomy and Astrophysics Division of the U. S. Naval Observatory in Washington, D.C. He was born in Austria and obtained his Ph.D. degree in astronomy at Vienna University in 1955. In that year he came to America and took the position of Research Associate at Dearborn Observatory of Northwestern U. and came to the Naval Observatory in 1958.

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### FEBRUARY FEATURES

- 1,8,15,22,29-TELESCOPE MAKING CLASS, Chevy Chase Community Bldg., 5601 Conn. Ave., 7:30-10, Hoy Walls, Instructor
- 3,10,17,24 - TELESCOPE MAKING CLASS, Bladensburg Material Center, 4600 Varnum St., 7:30-9:30, Bill Isherwood, Instr.
- 5,12,19,26 - TELESCOPE MAKING CLASS, Fairfax High Scholl, 7:30 PM Grady Whitney, Instructor
- 6 - GALACTIC CLUSTERS AND STELLAR EVOLUTION - Dr. Otto G. Franz Business Meeting follows. Dept. of Comm. Audit. 8:15
- 12,26 - VIRGINIA JUNIORS MEETINGS- 8 PM, Westover Baptist Church, 1129 N. Patrick Henry Drive, Room 140, Arl., Va.
- 13 - MD.- D.C. JUNIORS MEETING - Chevy Chase Community Building, 5601 Conn. Ave., 2:30. Dr. James J. Krebs will speak on THE MASER AND RADIO ASTRONOMY.
- 20 - DISCUSSION GROUP - "OPTICAL DESIGN" led by Everette Neville Foyer, Department of Commerce Auditorium, 8:00 PM

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"Many a night I saw the Pleiades, rising through the mellow shade  
Glitter like a swarm of fire-flies tangled in a silver braid."  
Tennyson

## ATTENTION OBSERVERS!

Starting with February and on alternate months thereafter, there will not be a scheduled observing night at the 5-inch telescope. During these months Larry White will pick one or two clear nights and telephone interested people for group observing. This new plan will assure good observing nights which up to now have been rare indeed. It is requested that everyone interested in this program telephone Mr. White at JE 3-3261 during January so their names may be added to the list.

Praesepe and the following open clusters: M35, 36, 37, 38, and 67 will be suitably placed for observation with the five-inch telescope in February.

Larry White

## SPACE HANDBOOK

In order to pursue the interesting talk which we heard last month, it is suggested that you get ahold of SPACE HANDBOOK: ASTRONAUTICS AND ITS APPLICATION, Staff Report of the Select Committee on Astronautics and Space Exploration, 1959, Government Printing Office, 86th Congress, First Session—House Document #86. Our speaker, Mrs. Burley, suggested this as an authoritative study, in lay terms, of space flight.

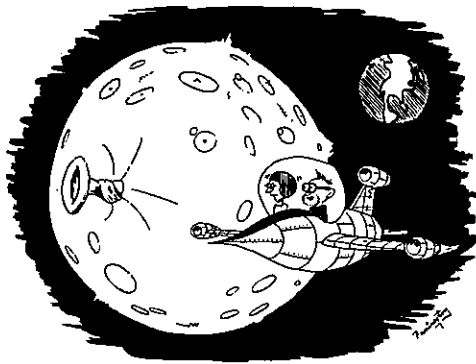
## NEW MEMBERS

Regular

James Harrison	Kennedy-Warren Apts., Wash. 8	DE 2-2409
Thomas E. Wells	3720 Macomb St., #205, Wash.16	

Junior

Evelyn Berk	4113 Kennedy St., Hyattsville	AP 7-0578
Richard L. Cain, Jr.	4106 Hamilton St., Hyattsville	WA 7-1856
Joe Elman	6719 Brigadoon Dr., Bethesda	OL 2-1787
David Roberts	6699 MacArthur Blvd., Wash. 16	OL 2-4721
Andrew V. Stevovich	4200 Cathedral Ave., Wash., 16	EM 2-4131



GIVE ME A PIN, THEY'LL WANT PROOF!

space journal

## NCA EDUCATION AND SCHOOLS ADVISORY COMMITTEE

This committee is attempting to fulfill a vital need in our city: that of introducing students to astronomy. For a number of years NCA has attempted to enlighten both teachers and Science Department heads throughout our area. One of the problems seems to be that of helping teachers to the quickest and most exciting approach to this wonderful science, for the interest has never been any greater or the student more anxious to know the very latest information we have to offer him. It was for this purpose that Bob McCracken and Ben Adelman actually taught a course in astronomy to local science teachers last summer. A summary of the latest work of this committee has been prepared by Mr. Adelman who is our very active chairman of this committee. Other members of this committee include Mrs. Margaret Noble, Miss Mabel Duvall, Mr. Ferdinand Cardano, Mr. Robert McCracken and Mr. Howard Owens.

At a recent meeting of this group a plan was evolved in order to better establish contacts between the schools and NCA members who would be willing to assist teachers on occasion. Committee members will be responsible for different areas of the city and each will keep a list of NCA members in his area who agree to help and the teachers who request assistance will call the NCA contact member for their area who will in turn call upon members on his list. The plan will be entirely voluntary and any member may volunteer for a specific talk if he wishes. The contact members so far are: Prince Georges Co.—Mr. Cardano, SP 3-5799; S.E. Washington — Mrs. Noble, LU 2-6721; and Montgomery Co.—Mr. Adelman, WH 6-4708. As arrangements are made for other areas, they will be announced in STARDUST.

In November, a star party was held for ten of the elementary school teachers of the District. They were shown the Moon, the Andromeda galaxy and other sky sights. Several took pictures and planning a star party for school children was discussed.

On November 17th, Mr. McCracken and Mr. Adelman met with Keith C. Johnson, D.C. Science Supervisor, Dr. Knipling, Science Supervisor of Arlington County, Mr. Howard B. Owens, Science Supervisor of Prince Georges County and Mr. Cardano, who is Mr. Owens' assistant, to discuss the science fair conference proposal. After much discussion, it was decided that the committee would compile a booklet of ideas for "open-end" science fair projects in astronomy to be published by the Joint Board for Science Education as part of its volume on the subject.

By way of explanation, an open-end project is one that points out a scientific problem but does not give the solution. A dozen students can work on the same open-end project and each works out his own approach and arrives at his own conclusions. We welcome ideas for open-end projects from fellow members. The more, The better.

Benjamin Adelman,  
Chairman