STAR DU ST, V. 26, no. 2

## SHORT NOTES.... from the President

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This issue of StarDust will come as a surprise, ... The foremat is different, the type is full size and the contents raises the question of "Is this rebirth a challenge to 'our membership?"

Your president has taken the responsibility of creating change with a new administration.... The ultimate goal is to build a professional scientific membership composed mainly of amateurs, who, (1) enjoy delving into the serious fun of building more earth, were considered the best means of and better telescopes. (2)gain experteeze as a knowledgeable sky observers. 3) and to broaden their knowledge of astronomy and space information with their attendance at our regularly sceduled monthly lectures and discussion groups.

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October 5th, meeting : 8:15PM Dept. of Commerce Auditorium.

"Measurement of the Astronomical Unit by Radio Astronomy" is the topic of NCA speaker Dr. Stephen H. Knowles.

The exact mean distance between the earth and the sun, called the Astronomical Unit, is a fundamental quantity in astrophysical research.

Until the mid-1950's, measurements based on the orbital effects of the asteroid Eros, at its closest approaches to the calculating the earth-sun distance. In the past decade powerful astronomical

radars have been used to determine precise travel times of radio pulses between the two bodies and hence their seperation.

Since 1966, Dr Knowles has been perfecting a third method, useful for checking the other two: annual period doppler shifts in the 21cm neutral hydrogen line emissions from large interstellar radio sources Continued page 3 are used

National Capital Astronomers AstronomicalLeague of Wash,DC George E. Gould, Pres. 423-8777 5308 29th Pl. Hillcrest Hts.Md 20031

> Library, Naval Observatory Washington 25, D.C.



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## SHORT NOTES, Continued from page 1.

In support of these goals, your president and your other officers and trustees intend to set high standards in the selection of technical speakers and committee chairmen for our programs.

Star Dust must become a challenge to the membership and reflect their interests the path to lasting friendships.

and related information requests in astronomy subjects.... Therefore as your president, I am designating the second Saturday of each month as Star Dust news and editorial meeting.

in questions for the question box -- short. on astronomy and related sciences, for review---items on telescope making--observations past and proposed for the future---- and any other subject and material that will be of scientific interest to our members.

In order to get this program on the road, we will need Junior and Senior reporters. This is an opportunity to learn how to write systems let us know about them. good technical articles---Reader Digest style --- This training will be invaluable to any member who wants to develop a professional approach in analyzing technical papers and in improving his technical writing ability.

We will also need Jr and Senior Editors. The ability to rewrite and guide others will be a most rewarding experience----Even if you have never had any training in school or on the job.... The way to learn is to try it.

It's just like building a telescope---We well have experts to guide you. In a few months, you will be able to do almost the impossible.

these assignments. It will take a few months for everybody who is interested to get their feet wet. It is our intention to print as many articles and items as possible

that meet the Editor's Criteria.

You will enjoy the thrill of seeing your By-line an an accredited NCA Astro-Reporter. In addition, other NCA members will surely seek you out as a knowledgeable member at subsequent meetings for discussion and further information. This is

11† Put Nov. 30th down on your Calender. For I.Roland Cumberland. He makes the fabulous Questar optics. There will be no underscored, no meeting on the following Dec.7th. Learn how they are made.

At this time members are urged to bringIn addition we are interested in having a Questar star party on Friday Nov.29th. articles from various news sources, books It is planned for the South Eastern section of our town but in the Hillcrest Hts, Marlow Hts .Md. area. In the vicinity of Branch Ave and St. Barnabus Rd. Let us know if you want to attend. Contact Jerry Schnall Larry White-Bob Wright-Bob McCracken.

> We hope to have at least one dozen Questars on hand. If you have one or know of any in this area besides the local school Mr.Cumberland will have some 3.5 and the new 7" Questars at his talk on Sat., evening Nov. 30th. If poor weather prealudes viewing the stars after the talk, then Mr.Cumberland will set up the telescopes for viewing in the auditorium as long distance microscopes.

In order to reinstitute some of the excellent programs that made NCA an outstandamateur astronomy club, your president met with Past Presidents, Mable Sterns, Margaret Noble, Janet 'Perky' Wright, & Bob Wright at the Wright's emporium. Also attending were Moncure Noble and and Susan Wright.

As a result, we will print in Star Dust from time to time on a continuous basis, So make it your business to vlounteer for interesting items of past NCA activities. It is fur ther planned that some of these activities will be reinstituted for the enjoyment of the present membership. Continued on page 4

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October Speaker. from page 1. to calculate the earth's orbital velocity, and then from its period of revolution the orbit size. Our speaker will discuss mea- Oct 5 Dinner with the speaker at Bassins surements of the Crab Nebula, Sagittarius A and Cassiopea A for this purpose, using a 50 channel radiometer. Their present and future place among the other techniques is evaluated.

Dr. Stephen H. Knowles is an astronomer with the E.O. Hulbert Center for Space Research of the Naval Research Laboratory. Much of his work is done with the N Navy's major radio telescope facility at Maryland Point.

The September Speaker

Our first speaker of the new meeting year was Dennis Rawlins, who presented NCA a sequel to his December 1967 talk entitled "Chase of the trans-Uranian Plan- slide and print displays, and descriptions et". Mr.Rawlins emphasized that the lack of good star charts early in the nineteenth century prevented a much earlier recognition of Neptune and complicated its 1845 discovery, as did the French and British astronomical bureaucracy of the times. It now appears that mathemay ical predictions of the existence of the eighth planet were more lucky then skillful.

W.R.W.

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Astro Reporter Ken Crowley

Pres. Bill Bruck reported on the summer Executive Comm Metting, at which several All Jrs. should plan to attend. problems were discussed, Generally the problems centered around the lack of reg- inch telescope, the mirror is offered by ional members and activities. The Area officers were urged to have information concerning meetings published inStarDust One of the ideas proposed was a Junior Div concerning ublicity for the fExploring the Star Party to be held in late Sept. A comm Sky ' programs. He plans to consult with was formed, at the general meeting, to select a specific time and place. In connectiion with such activities, transportation by car pool and telephone grapevine were suggested. Another ideas, proposed as a club project, was the construction of a ten PAGE 3 continued next column

## OCTOBER CALENDER

- 14th & Pa Aves.NW 6:15PM Call Bill Winkler 736-3553 or Geo. Gould,423-8777 for reservations.
- Oct. 5 Meeting at Dept of Commerce Auditorium,14th & E Sts.NW 8:15 PM
- Oct 19 NCA picnic and star party at Mannassas Battlefield Memorial Park,5:30PM, bring your own food for barbequeing, and your telescopes and binoculars. Till Midnight. Park is on Rte 66, West of Beltway.

A reminder: the Nov.16 discussion group will be a rountable discussion on all phases of astrophotography. Plan your of your techniques and and problems now.

Oct.20 Prince Georges Juniors will meet at the P.G.Cty Materials Center 2% PM , Geoffrey Hornseth will be in charge of this group. Md-Dc Sam Bacasse, TA 9 5432 Va Jrs. Grady Whitney 273 -2538 Observing at the Five Inch, Oct 18th 8 to 10PM with Larry White.

Oct 5 General meeting of the Junior Div. 7:15 PM in Dept of Commerce aud. itorium before regular lecture.

VP Sam Bacasse. A comm, was formed to possible methods of raising funds for this purpose. Sam also reported on his efforts

the Senior Div., about further Jr publicity activities. - - - Finally a field trip to the twenty six inch refractor at the Naval Observatory was proposed. necessary information to be acquired.

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Bill Winkler our VP has arranged an excellent program for our Nov.2nd meeting. Three experienced Planetarium directors and lecturers will form a panel for an interesting discussion and sky slide show presentation. Our own Margaret Knoble, from Prince Georges Cty, Al Briefer, from telescopes. EYEPIECES AND FINDER Montgomery Cty Jr. College, and Mr. Fagin ARE NEEDED. The rings are large from Fairfax Cty. Come prepared to ask questions.

In reorganizin g our meeting agenda, your president will have the minutes of the previous meeting printed in Star Dust. This From Jerry Schnall. Telescope Making. is meeting will eliminate the reading of minutes at the meeting. The Chair will ask for corrections Hopefully the telescope class ///////heet at or additions to the published minutes. Then the Palisades Community Center, near the chair will entertain a motion to accept Sherier and Edmonds Places N.W., Wash the minutes as published and or amended. DC, On Friday evenings between 7:30 and 10:00 PM.

The following agenda will be used starting with the October meeting.

8:15 Call to order Reports of telescope making classesblock south of Arizona Ave. Jerry hopes Observing at the 5"Larry White What did you see? w/Bob Wright Occultations, with Bob McCracken Jr. Activities, Ted Noble, Geoffrey Hornseth, Bill Bruk, Sam Bacasse, Sterling, Va 22170 Grady Whitney. 8:30 Introduction of Guest Speaker Silver Spr.Md 20902 9:10Speakers Deadline (maximum) Ten minute q and a period. 9:20 Break to 9:29 9:30 Business meeting called to order. 9:45 to 10.00 Adjourn Sept.Jr. Meeting, Continued from page 3

After the regular business was completed, John Landua, 938 Dead Run Dr. Mr.Don Hammond of District 36, Toast-McLean ,Va. 22101 356-7807 masters International, which covers the -Metropolitan Washington D.C. area, spoke Bruce Muirhead, 4909 Stonecliff Rd. to the Juniors about a program of instruct-Suitland, Md 20023 736-4298 ive sessions in public speaking and Parlia-William R. Schmidt, 5514 Randolph St. mentary procedure. About ten Juniors Hyattsville,Md.20784 Wa-7-0541 expressed interest. Further details were Susan A Wright, 202 Piping Rock Dr. left to the Senior Division. Silver Spring, Md 20904 384-6748

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NEW ADDITION and can u help?

Hoy Walls built a 6" reflector with a pyro ceran mirror that is to be used as an ext a telescope at the Naval Observatory. It has a wooden tripod and a very nice aluminum mounting with slow motion controls. Hoy gave us a counter weight from one of his enough for a moom watch scope. HAS ANYONE PARTS THAT THEY WILL DO-NATE FOR THIS SCOPE? 

Arthur Blvd, and Edmonds Place is one to start his classes on Sept.27th. New & proposed members: Gerhard H. Bold 113 N.Emory Dr.

Sherier Place is one block west of Mc

Helmut E. Dost 10412 Hutting Pl. 949 5035

Dr &Mrs Stanley Blumenthal, 10461 Grosvenor Pl.Rockville,Md20852, 443 6473

Cliff & E. Curtis Green 7411 Gresham St N.Springfield, Va 22151, 441-3838

Thomas J.Guarnieri, 11307 Schuykill Rd Rockville.Md 20853 946-1351

Jrs:: James Robert Barker, Jr., 16 Cheverly Circle, Cheverly, Md 20785, 773-2135

Oct.1968