

# THE SPECTRUM

December 1963

Buffalo Astronomical Association

Editor B. Cook

## DECEMBER MEETING

The December meeting will be held at the Buffalo Museum of Science on Friday, December 13th at 7:45 P.M.

We are fortunate this month to have two very interesting talks on our program. Ernst Both will present and narrate the film that was made of his solar expedition to northern Canada last July.

Following this, we will have a short talk by Dr. E.P. Tschermock, a Czech Physicist, who will describe a new electronic device that he has developed with his father, Dr. F.E. Tschermock. This device greatly increases the effective resolving power of optical telescopes. Dr. Tschermock will illustrate his talk with slides to show the results of the first experimental application of this new observing technique.

Our social hour this month will be expanded both in length and in nature, taking the form of a holiday party in keeping with the Christmas season. A specially made cake will be served along with ice cream, coffee and tea. We hope everyone will make the greatest effort to attend our December meeting. However, in the event that unavoidable circumstances prevent your being with us, your Association officers and the staff of the Spectrum would like to take this opportunity to wish you the happiest of holidays.

## FOR SALE

One copy of "Norton's Star Atlas", brand new, from Sky Publishing Corp. Discount price \$4.00. Retail price \$5.25. See Paul Redding during the December meeting.

## TELESCOPE TIPS

Last month we discuss what powers of magnification should be used with your telescope. This month we will describe various types of eyepieces.

For a high power eyepiece (6mm focal length) the Orthoscopic is the best. It consists of a cemented triplet followed by a positive meniscus. It is completely corrected, provides a field of 35 degrees, and can be used equally well with refractors and reflectors. Cost: \$12 - \$14.

For a medium-high powered eyepiece (12mm fl.) one could use a Ramsden or a Huygenian. These eyepieces consist of a plano-convex field and eye lens. Performance is not orthoscopic but can give good results on a small telescope. Ramsdens should be used with reflectors and Huygenians with refractors. Both should be used only on higher focal length telescopes, as below fl.10 the spherical aberrations become most serious. Both are fairly free of distortion, provide a field of 35 - 40°. Cost: \$5. - \$7.

For a medium powered eyepiece (18mm fl.) one might use a Symmetrical. This eyepiece consists of a doublet field and eye lens. It provides great eye relief and large exit pupil. It works best with long fl. refractors and reflectors. It has a field of 35 - 40°. Cost: \$5. - \$6.

For a medium-low power (25mm fl.) a Kellner should be used. Similar to the Ramsden, but achromatized, it provides a field of view of 50°, good eye relief and exit pupil. It works well with long focal length objective and mirror. Cost: \$3.50 - \$5.00.

A low-power eyepiece (32mm fl.)

U. S. SUCCESS!

On Friday, December 14, Mariner II Probe will rendezvous with Venus at a scant 21,000 miles. The probe will be sending information signals about the planets surface and atmosphere over an unbelievable distance of 36,000,000 miles. Just a few hours of signals May solve this mystery of centuries.



WISHING YOU A VERY MERRY CHRISTMAS AND A  
HAPPY AND HEALTHY  
NEW YEAR!



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Mrs. Edward Cook  
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Snyder 26, N.Y.

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