

# THE

# SPECTRUM

An Analysis of the Elements that make up the Buffalo Astronomical Association

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Editor P. Redding

## BUFFALO ASTRONOMICAL ASSOCIATION MEETS SEPTEMBER THIRD

The first meeting for the 1958-59 club season will be divided into two spheres of activities, first the Regular Business meeting in the Roosevelt Room of the Museum of Science in Humboldt Park at 8:00 P.M.

SHARP, at this meeting the Program Committee will present the program for the forthcoming year, also at this time the Revised Constitution will be submitted to the members for approval.

After the Business Meeting there will be a Public Showing of the film "Operation Moonwatch" in the Museum Auditorium at about 9:00 P.M.

This is a local film, and will be shown only once, so don't miss the opportunity to see what the B.A.A. has contributed to the I.G.Y.

So bring a friend who you think might be interested in seeing this film and possibly joining our group. Ed.

This paper wishes to expand to two pages Result? WE NEED MORE NEWS !!!!!

## MEMBERSHIP NOW OPEN

Any member who wishes to to pay his/her dues may do so at the Sept. meeting. Dues for 1959 are payable up to and including December 3, 1958, those who wish to mail their dues may do so. Just send a check or money-order to: BUFFALO ASTRONOMICAL ASS'N 12 MANHARDT ST. BUFFALO 15, N.Y. But remember the deadline is Dec. 3 as after this date the membership list will have been compiled and printed for the Jan. meeting.

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As Chinese philosopher would say:- "kindly forgive editor small errors of commission and omission in writing bulletin"

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"ATTENTION"  
AMATEUR ASTRONOMERS  
AND  
TELESCOPE MAKERS

No longer do you have to write to Telescope manufacturers or war surplus warehouses requesting their catalogs and price lists, and wind up having numerous catalogs stuck in rarely visited corners of your attic or basement where you would never find them, when you need them.

For the Recording Sect. Lou Reinagel has compiled into one book all of the advertisers listed in S&T and their their catalogs. This book will be on hand at all group gatherings beginning with the Sept. meeting.

## I.G.Y. REPORT DUE SOON

A full I.G.Y. report will be given at either this month's public meeting or next month's regular meeting by Mr. Lindborg I.G.Y. leader of Operation Moonwatch, in Buffalo. At that time he will bring specimens of the equipment used in this program and explain their uses and complications.

Also at this time Lou Reinagel will give a report on Auroral and Meteor obs.

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AIRFORCE PLANS SECOND SHOT AT MOON ON SEPT. 14 AFTER FAILURE OF FIRST SHOT ON AUG. 17, 1958.

On Aug. 17 at 8:14 am a souped up Thor-Able rocket roared from the launching pad at Cape Canaveral on a history making flight to the moon. But after 77 sec. of flight it exploded due to a fuel leak in the first stage.

On Sept. 14 the AF plans to send a second rocket to the moon, baring any hold up in the countdown, for if it is held up for more than 15 min. the shot has to be postponed until the next month, because the moon has moved out of position and the rocket would not intercept the moon in it's orbit and therefore fail to go into orbit around the moon. This second rocket will also carry a TV camera to relay back pictures of the dark side of the moon never seen by an observer on the Earth. Ed.

For those who want the Calculated Characteristics of the Current Satellites they are listed below along with the latitude limits of Explorer I and IV and the Russian Satellites.

| SATELLITE                           | 1958 $\alpha$ | 1958 $\beta_1$ | 1958 $\beta_2$ | 1958 $\delta_1$ | 1958 $\delta_2$ | EXPLORER IV<br>1958 $\epsilon$ |
|-------------------------------------|---------------|----------------|----------------|-----------------|-----------------|--------------------------------|
| Height (mi)                         | 219           | 408            | 408            | 120             | 133             | 163                            |
| Mag., Broadside                     | 5.6           | 6.2            | 10.0           | -1.5            | 2.1             | 5.1                            |
| Mag., End on                        | 8.7           | 7.7            | 10.0           | 5.5             | 2.3             | 8.2                            |
|                                     |               |                |                |                 |                 | APOGEE                         |
| Height (mi)                         | 1,510         | 2,460          | 2,460          | 1,000           | 1,100           | 1,365                          |
| Mag., Broadside                     | 9.8           | 10.1           | 13.9           | 3.6             | 6.7             | 9.6                            |
| Mag., End on                        | 12.9          | 11.6           | 13.9           | 10.6            | 6.9             | 12.7                           |
| MINIMUM TELESCOPE APERTURE (inches) |               |                |                |                 |                 |                                |
| Bright Sit.                         | *             | 0.3            | 1.6            | *               | *               | *                              |
| Faintest Sit.                       | 6.0           | 3.3            | 9.6            | 2.1             | 0.4             | 5.5                            |

\*Naked eye

