



"EDITORIAL"

A Short "Doings"

Because of holiday shortage of secretaries we are reducing the content of the "Doings" this month, particularly by omitting the so-called editorial. J.F.H.

The 74-inch

Gerry Longworth and his helpers aluminized the primary mirror last week. It is to be hoped that for the next aluminizing we will have an up-dated pumping system. A new larger diffusion pump, a liquid nitrogen trap, various valves and a new vacuum gauge have been ordered, and Gerry and Co. will be rebuilding the vacuum system this fall. Meanwhile it appears that we have a pretty good coat to see us through the good summer and fall weather.

Drs. Garrison and Schmitt and Doug Hube have been putting a lot of time and patience into the adjusting of the new low-dispersion system of the grating spectrograph.

The 50 KV power supply for the image tube has arrived, and Dr. Jeffers has set up shop in the clock-room to test and adjust the tube.

The 24-inch

The DuMont photomultiplier in the infra-red photometer has been replaced with an ITT FW-118 tube, and this has resulted in an enormous improvement in the instrument's performance. Accurate transformations to the standard BVRI system are possible, but, as expected, transformations involving U are poor. Tom Barnes has already started using the photometer for his thesis on infra-red photometry of Mira stars. However, further improvements in the instrument are possible, and we intend to go to dry-ice rather than thermo-electric cooling in the near future.

The problem of drift in the 24-inch drive, which we thought had been cured by the makers in Holland last winter, has recurred this summer. The difficulty has been traced to temperature sensitive components in the multi-vibrator circuits of the frequency-divider

network. This whole network is unsatisfactory, and Frank Hawker is about to build a replacement of different type for it. Meanwhile, the telescope works well provided the door of the control console is left open to allow cooling.

### The "Rose Committee"

The Science Secretariat Working Group on Astronomy, chaired by Dr. Rose and including also Drs. Beals, Wehlau and Low, held hearings in Toronto on July 4-5. Briefs were presented by Dr. Innanen (York), Dr. Schmidt-Kaler (Bonn), Dr. MacRae, Dr. Heard, Dr. Fernie, Dr. Roeder, Dr. FitzGerald (Waterloo), Dr. van den Bergh, Dr. Welsh, Dr. Yen, Dr. Percy, Dr. Marlborough (Western) and Doug Hube. On July 14 Dr. van de Hulst, who had joined the committee after the Toronto hearings, visited the Observatory to hear, at first hand, the views of those who had presented briefs. On July 16 Dr. MacRae and Dr. Hogg attended the Ottawa hearing. It is understood that the report of the Group is being presented to the Science Secretariat just about now.

### Papers submitted during July

J.D. Fernie and J.O. Hube	"A Catalogue of Fundamental Data for Classical Cepheids."
J.D. Fernie	"Classical Cepheids and Galactic Structure"
E.R. Seaquist and M. Bell	A Search for Radio Emission from Haro's Blue Galaxies at 9.26 CM
R.C. Roeder and R. Verreault	The Screening of Distant Objects in Universes with Positive Cosmological Constant
S. van den Bergh	The Chemical Evolution of the Galaxy
S. van den Bergh	The Remarkable Cluster B327

### July Seminars Revised

There were the following additions and changes to the scheduled list as printed in the June issue of the Doings:

July 3 Special Colloquium at Observatory	"Star Rings" by Dr. Th. Schmidt-Kaler, replaced the talks scheduled for Nancy Remage and Peter Jackson.
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July 5  
Special Colloquium at 1964) on "Evolution of a Collapsing Protostar".  
McLennan Physical Laboratories Dr. Richard B. Larson (M.Sc.)

July 17  
"Countdown" Nancy Remage, "More About Mira Stars";  
Peter Jackson, "Radio Luminosity Function of Galaxies".

July 24  
"Summer Countdown" Fred Hickok, "Quark Astronomy";  
David Fort, "Structure of M17".

### August Seminars

August 7  
"Countdown" Linda Poole, "Astronomical Uses of the Fabry-Perot Interferometer".  
Carl Bignell, "Radial Velocity and Kinematics of Galactic HII Regions".

August 14  
"Countdown" Peter Hagen, "Colour of the Sun".  
David DuPuy, "Distance Requirements for Emission Line Fluxes".

August 21  
"Countdown" Dr. Jeffers, "Image Tubes Applied in Astronomy".  
Bill Dodd, "Expansion of Cassiopeia A".

August 28  
"Countdown" Ted Bednarek, "Physics of the Gaseous Nebulae".  
Dr. Fernie, "Classical Cepheids and Galactic Structure".

### COMINGS AND GOINGS

Dr. van den Bergh made a quick trip back from Cal. Tech. for the July 4-5 hearings of the "Rose Committee". Mrs. van den Bergh and Peter and Mieke and Sabine left by air for Pasadena on July 29 to occupy the house which the family have rented there.

Joan Topley and mother and son Ken, are now in Scandinavia where they will visit relatives, particularly in Norway. It is Joan's first visit to the land of her forebears.

Dr. Anand will fly next week to India for his sister's marriage and to visit members of his family for two weeks. On the way back he will attend the International Conference on Laboratory Astrophysics at Lunderen, Holland on September 2-6, and will return to Toronto on September 7.

Dr. and Mrs. Garrison, son Lee (10) and daughter Alexandra (4) arrived in Toronto on June 28 to take up residence. They soon found a town house in the Bayview Mall (2911 Bayview Ave., Unit 106<sup>t</sup>, Willowdale; phone 222-5827). However, their furniture's arrival

was delayed by several weeks and it is only now that they are comfortably settled.

Mrs. Jeffers (Gill) arrived from England on the SS Maasdam on July 23. The Jeffers are living at 640 Davenport Rd., Apt. 304; phone 537-6151.

#### PROMOTIONS

As of July 1 Dr. Fernie is promoted to Professor and Dr. Roeder to Associate Professor.

#### ALUMNI

Miss Northcott on her return from the U.K., reported that she visited Bill and Vicki Sherwood (both M.Sc. 1967) in Edinburgh. They send greetings to their friends and urge us to use their spare bedroom whenever we visit Edinburgh and to let Bill arrange for us to give talks to the Astronomical community there. They are both greatly enjoying Edinburgh. Vicki will be teaching Mathematics at a nearby university next year, and Bill now has a thesis topic lined up.

#### MISCELLANEOUS AND PERSONAL

The Observatory was broken into on the night of July 21. Entry was apparently effected through an opening cut in the screen of an unlocked window on the ground floor. Fortunately little was disturbed and nothing stolen; there were indications that the escapade was a youngsters' prank, but it should serve to warn us of serious loss and damage which could happen and to make us more vigilant about locking up.

David and Heather Crampton have announced the birth of their daughter, Lisa Heather, at Victoria on July 17.

Joan Hube and Gretchen Hagen were co-hostesses to the ladies of the staff and the students' wives for a baby shower for Susie Schmitt last Friday evening at the Hube's.

Fred Hickok and Chalmers Hardenbergh had a party last Thursday evening for staff and students at their apartment.

Dr. Yen has become the owner of a Shark-class sailboat.