



EDITORIAL

DAVID DUNLAP

When we are showing people through the Observatory we are often asked who David Dunlap was, where his wealth came from and how the family came to give the Observatory to the University.

At the time of the building of the Ontario Northland Railroad (1906) a labourer named La Rose idly kicked at a shiny rock as he walked through the cut which had just been blasted out of the hillside at the site of the little town of Cobalt. He nearly broke his foot and, puzzled, he picked up the very heavy rock. Believing that it might be valuable ore he took it to the local storekeepers, the brothers Timmins, who were said to be knowledgeable about such things. The Timmins recognized it as extremely high grade silver ore, and with La Rose they searched the hillside till they found the narrow vein at the edge of the cut. The Timmins brothers suggested that they get legal help to see how to stake a claim. In nearby Kirkland Lake they found a young Lawyer named David Dunlap. Among them they agreed on a four-way partnership. During the next few years the La Rose mine yielded to the pick several million dollars worth of silver ore which assayed about 95% silver - so rich that it was shipped directly to the refinery. The narrow gash, only one to three feet wide, is still to be seen at the edge of the railroad cut near the centre of Cobalt.

La Rose frittered away his stake and died poor. The Timmins brothers made it in further mining ventures, as did David Dunlap - mostly from the famous MacIntyre Mine. The Dunlaps moved to Toronto.

In May of 1921 Professor C.A. Chant gave a lecture in the Physics Building on the Pons-Winnecke Comet for which Crommelin had computed an alarmingly close approach to the earth in mid-June. Having a large audience, Dr. Chant made his usual plea for funds for a Toronto Observatory, a project on which he had been working for the past ten years. After the talk a man came up and introduced himself as David Dunlap and said he was interested in the project. A week later Dr. Chant wrote to Mr. Dunlap inviting him to join the R.A.S.C. (which he did), and the two men exchanged several letters over the next few years.

David Dunlap died in October 1924 after a short illness. In 1926 Dr. Chant worked up the courage to write to Mrs. Dunlap to ask if she would consider the gift of an observatory in memory of her husband. Her reply was encouraging, and by 1927 the details had been arranged. On May 31, 1935, Dr. Chant's 70th birthday, Mrs. Dunlap opened the Observatory and presented it to the University of Toronto.

David and Donaldia Dunlap had engaged in other philanthropies, the best known being the gift of the Dunlap wing of the Toronto General Hospital. They had one son, Moffat, who died about ten years ago. His widow is now Mrs. J.H. Crang, but the family name is carried on by the two sons of her first marriage, David and Moffat Jr. The family have continued to be interested in the Observatory and from time to time have made gifts as evidence of this, the latest one as recently as last year.

J.F.H.

OBSERVING

New Spectrographs

A new MK spectrograph has just been completed and is to be mounted at the Cassegrain focus of our 24-inch telescope. Dr. Garrison modified an original design by Dr. W.A. Hiltner, and David Blyth did a beautiful job of building it. All of the optical parts are "off the shelf" items and the total cost of parts was about \$1,000. As DDD goes to press, the spectrograph has been collimated and focussed in the lab and is ready to go on the telescope. Dr. Garrison is now working on a two-prism version for our new 24-inch telescope in Chile.

Radio Astronomy

Hugh Ross, Dr. Seaquist, M.D. Bell of N.R.C. and Dr. Lorne Braun of Electrical Engineering are cooperating in a program to observe radio sources with curved spectra and to search for time variations in the flux density of these sources. The new data acquisition system of the 150 foot telescope is now in operation and is being used for this program.

Dr. Yen and H.P. Palmer of the University of Maryland and B. Benzerckermann of the University of Chicago have just returned from ARO where they were carrying out observations of the excited OH lines in W3 (IC1795). The principal U. of T. contribution was the 5-cm. Maser which has been under development here for some time.

COMINGS AND GOINGS

Dr. Chris Coutts and Dr. and Mrs. van den Bergh represented the Observatory at the meeting of the American Astronomical Society

in Honolulu March 30 to April 2. Chris gave a paper on "A Study of the Variable Gap in M5" and Dr. van den Bergh on "Observations of the Nucleus of M82".

Drs. Fernie, Garrison, Heard, Kronberg, MacRae, Roeder and van den Bergh attended the May 2-3 meeting of the National Committee for the I.A.U. at U.B.C. Papers were read as follows:

- Fernie: "A Method for Determining the Intrinsic Colours of Cepheids from the Amplitudes of their Light Curves"
- Garrison: "The Remarkable Star Theta Carinae".
- Heard and Newton: "The Spectrographic Orbit of RW Monocerotis"
- Kronberg: "Some Preliminary Results of a Survey of Discrete Source Polarization at 610 MHz"
- Roeder: "The Absorption Spectra of Q.S.O.'s."
- van den Bergh: "The Metal Content of Stars in the Halo of the Andromeda Nebula"

Also Dr. Bajcar of Waterloo presented a paper on "Technetium in Late-Type Stars" based on his observing at D.D.O. last winter.

Dr. MacRae was in Washington on May 15 re the Universities' Space Research Association.

Dr. Hogg is spending two weeks at her Dunstable, Mass., home.

Dr. Fernie was in Montreal on May 8 speaking to the R.A.S.C. on "Distance Determination by Cepheid Variables".

Bob Hawkins left on Monday for Tucson to pick up the IR detector from the Lunar Planetary Laboratory for his research project with Dr. Roeder.

PAPERS SUBMITTED IN MAY

D.L. DuPuy and J.B. De Veny

"The Peculiar Galaxy NGC 6052"

SEMINARS

Summer Countdowns

May Countdowns were as announced last month except that Tom Barnes' title today is "The Period-Luminosity Relation of Mira Variables"

June Countdowns

June 18	Dr. MacRae, "The Lunar Science Institute, Houston". Hugh Ross, "Infrared Heterodyning"
June 25	Dr. Kronberg Jack Winzer

June Institute

Dr. Anand reports that 93 visitors are registered for attendance at the Institute. They come from nearly every important astronomical institution in Canada (coast-to-coast, U.B.C. to U.N.B.) and the United States. The lecture schedule is as follows (all in Room 103, McLennan):

Tues. June 10	9:30	"Quasi-Stellar Objects I" - Burbidge
	11:00	"General Relativity from a Physically Intuitive Viewpoint" - Thorne
	2:00	"Self Consistent Models of Galaxies I"
	3:30	"Neutron Stars" - Thorne
Wed. June 11	9:30	"Quasi-Stellar Objects II" - Burbidge
	11:00	"Gravitational Waves" - Thorne
	2:00	"Solar X-rays I" - Friedman
	3:30	"Self-Consistent Models of Galaxies II" - Prendergast
Thur. June 12	9:30	"Observational Cosmology I" - Burbidge
	11:00	"Solar X-rays II" - Friedman
	2:00	"Cosmic X-rays I" - Friedman
	3:30	"Self-consistent Models of Galaxies III"

Fri. June 13	9:30	"Observational Cosmology II" - Burbidge
	11:00	"Relativistic Star Clusters" - Thorne
	2:00	"Cosmic X-rays II" - Friedman
	3:30	"Models of X-ray Sources" - Prendergast

Summer Appointments

At the Observatory:

Rosalind Schemilt of U.N.B., is helping Mrs. Lehmann in the library and Miss Northcott with the Observers' Handbook.

Scott Chen, formerly a student at U.W.O., has been here since April 1, sharing his time as computing assistant for Dr. van den Bergh and observing assistant for Dr. Fernie.

Mrs. Molly Morrow is assisting Dr. Heard in radial velocity measuring.

At the University

Dr. Jan Strakas, formerly of the Astronomical Institute of the Czechoslovakian Academy of Science, is working with Dr. Clement on the computation of Star Models.

Tan Phuc Nguyen, U. of T., is assisting Dr. Kronberg.

John Kormondy, U. of T., is assisting Dr. Anand.

Jim Gillispie, U. of T., is assisting Dr. Percy.

Charles Dyer, graduate of the U. of T., has reported as a graduate student for 1969-70, under the supervision of Dr. Roeder.

Degrees

At the forthcoming convocations the degree of M.Sc. will be received by Ted Bednarek and by Fred Hickok.

Alumni Appointments

Serge Demers (Ph.D. 1967) has accepted an appointment as Assistant Professor in the Institute of Astronomy at Laurentian University in Sudbury.

Dr. John Schmitt (Post-Doctoral 1968-69) has accepted an appointment as Assistant Professor in the Department of Physics at Southwestern College at Memphis. This small (1200 students) liberal arts college places emphasis on staff research in optics and IR astronomy,

having a 31-inch reflector with a lead sulphide photometer, a coelostat, a 2 $\frac{1}{2}$ -metre grating spectrograph and other equipment.

Fred Hickok (M.Sc. 1969) has accepted a teaching appointment at Pensacola Junior College.

MISCELLANEOUS

Born

To Martin and Nancy Evans on May 9, at Wellesley Hospital, Toronto, a daughter, Lisa Ramage.

Hospitalized

Miss Northcott will enter Western Hospital on May 29 for surgery early in June.

Talks

Dr. Heard spoke on "Present-Day Astronomy" to the Kiwanis and Rotary Clubs of Powell River, B.C. on April 24th and 30th.

Dr. Hogg gave the opening address on May 4 of the Arts and Management Conference sponsored by the Toronto Business and Professional Women's Club at the Valhalla Inn.

Chris Coutts gave a talk on May 8th to the London Centre of the R.A.S.C. on "Astronomy in Italy".

Vacation

Alice Streit and her husband are visiting relatives in Switzerland until May 29th.