
CASSIOPEIA



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CONTENTS

Minutes of the 23rd Annual Meeting	2
CASCA Financial Statement	11
Employment Offer, University of British Columbia	12
Letter to the Editor	12
Membership News	12
Plaskett Medal	12
Honour for Gerhart Herzberg	13
The Helen Sawyer Hogg Telescope	J.D. Fernie 13
An Important Message to Canadian Users of the JCMT	J. MacLeod 13
Thanks from the 1992 Plaskett Medalist	E. Poisson 16
Postdoctoral Fellowships, CITA	16
National Fellows, CITA	17
Executive Appointments, CFHT	17
Canadian Astronomy Publications	19



Minutes

of the twenty-third

ANNUAL GENERAL MEETING

June 30, 1992

Saint Mary's University

Halifax, NS

S. van den Bergh, President of the Society, called the meeting to order at 14:00 EDT with about 65 members present.

1. Motion to adopt the Minutes of the 1991 AGM:**Motion 1.**

Moved by G. A. Welch, seconded by A. B. Underhill that:

*The Minutes of the 1991 Annual General Meeting, published in the 1991 Autumnal Equinox issue of Cassiopeia, No 72, pp. 2-7 be adopted as read.
Carried.*

2. Business arising from the Minutes:

There were no items arising from the Minutes.

3. Appointment of Scrutineers:

The president called for volunteers.

A. B. Underhill and G. A. Welch volunteered to act as scrutineers.

4. University of Toronto mm λ Telescope Proposal: - P. P. Kronberg.

Kronberg gave a brief information report on the proposal by the University of Toronto to join with the California Institute of Technology in their millimeter-wavelength array at Owens Valley Radio Observatory. The Array presently consists of three antennas. A fourth has been funded by NSF and Cal Tech will fund a fifth. The University of Toronto proposes to add a sixth antenna and a new correlator to make this array one of the more sensitive radio telescopes for millimeter wavelengths.

5. President's Report: - S. van den Bergh.

The President commented on the state of astronomy in Canada. The Board has been involved in discussion with NRC/NSERC regarding Gemini, with the CSA in conjunction with JSSA, and to transfer the Associate Committee's activities related to the IAU to the Board of CASCA. The Board will act as the Canadian National Committee for the IAU.

There were a number of items of correspondence during the past year, notably concerning the situation of our Soviet colleagues during the trying time of reformation.

6 Secretary's Report: - N. W. Broten.

The Secretary reported that the membership has grown to 421 members: 323 Ordinary, 91 Student, 4 Corporate and 3 Honorary members. The Society has lost another old friend during the year, Dr. Gus Bakos. The Board of Directors suspended 10 members for non-payment of dues, and another Corporate member, SED Systems of Saskatoon has resigned from the Society.

Broten read the names of members admitted to the Society since the last Annual General Meeting:

New Members Admitted June 30, 1992

Abraham, Roberto Garcia	Dominion Astrophysical Observatory
Clarke, David Alan	The Beckman Institute
Cunningham, Charles Thomas	Herzberg Inst. of Astrophys., Ottawa
Dorman, Benjamin	University of Virginia
Eales, Stephen	University of Toronto
Garnavich, Peter M.	Dominion Astrophysical Observatory
Jarrell, Richard A.	York University
Markle, Laura	Whitehorse, Yukon
Martin, Brian Edward	Kings College, Edmonton
Oke, J. B.	Dominion Astrophysical Observatory
Rowlands, Neil	Université de Montréal
Wietfeldt, Richard D.	York University

Transferring from Student to Ordinary

Allard, France	Université de Montréal
Daou, Doris	Space Telescope Science Institution
Heisler, Charlene Anne	York University
Hill, Robert J.	Louisiana State University
Sasselov, Dimitar	Smithsonian Center for Astrophysics
van de Rydt, Fabienne	Space Telescope Science Inst.
Wall, William F.	Goddard Space Flight Center
Westbury, Catherine	Ridge, NY

Student Member Applications

Beckett, Jeremy Robert Wilson	Saint Mary's University
Bridges, Terry James	Queen's University
Coziol, Roger	Université de Montréal
Drukier, Gordon Alan	University of British Columbia
Hanlan, Patricia	University of Michigan
Lee, Henry	University of British Columbia
Lee, Siow Wang	Saint Mary's University
Li, Pak Shing	University of Calgary
Lopez-Cruz, Omar	University of Toronto
Marleau, Francine	University of Toronto
McLaughlan, Dean Edward	McMaster University
Trudel, Jean-Louis	University of Toronto
Veidt, Bruce George	University of Alberta
Walker, Mark Patrick	McMaster University
Woods, David	University of British Columbia

7. Treasurer's Report: - C. M. Clement.

APPENDIX 1

The Treasurer presented the audited Financial Statement.

Two items required some explanation:

- a) The Contribution of \$1000 from H. S. Hogg to the Hogg Fund was a Capital Fund Contribution,
- b) The expenses associated with the production of Cassiopeia have increased by \$2500, partly due to the cost of editorial assistance.

Motion 2.

**Moved by E. F. Milone, seconded by J. F. Vaneldik, that:
The Treasurer's Report be adopted.
Carried.**

8. Education Committee's Report: - D. R. Bochonko.**1. Job Registry - Doug Forbes.**

Demand for the Job Registry service remains high; there are now ~75 members on the mailing list. Not surprisingly, the number of vacant positions advertised has remained fairly small. Fewer than 10 advertisements have been received and sent out since the Registry passed from the capable hands of Rob Roger, DRAO.

Members will soon have the option of receiving notices by electronic mail, but there is no intention at present of eliminating postal mailings altogether.

2. Journals Program - Paul Delaney, Alan Batten.

The Journals Program continues with the distribution of used journals to third world countries. A shipment was made to Peru last year. Another shipment for Peru has been prepared and will be shipped upon confirmation of receipt of the first shipment. The new shipment will cost \$800 in postage.

A shipment made earlier to Ethiopia was, unfortunately, returned. Alan Batten received thanks in person for a shipment sent to Argentina.

The program continues to operate almost solely due to the efforts of Paul Delaney and Alan Batten. Feedback from recipients of journals is poor and it is difficult to make contacts.

The Education Committee will ask Alan and Paul for a report on the Journals Program to be submitted at the next Board meeting.

3. CASCA Support of the Astronomical Society of the Pacific educational newsletter, Universe in the Classroom.

CASCA has continued to support financially the publication and distribution, by the Astronomical Society of the Pacific, of the newsletter, Universe in the Classroom. The newsletter is distributed without charge to teachers who request it.

The Education Committee will submit a report at the next Board meeting on CASCA's contribution to the newsletter. Members of the Society who have personal experience with the newsletter or who have comments on the newsletter please submit them to the chairman of the Education Committee.

The Education Committee will also try to publicize the availability of the newsletter to Canadian science teachers.

4. Education Notes in the Journal of the Royal Astronomical Society of Canada - Roy Bishop, editor.

After a long period with no submissions, five articles have been received. Two of these have been published (in the February and April issues of the JRASC), two are due to be published, and one is still at the review stage.

Submissions of articles for Education Notes are actively solicited. Roy Bishop notes that he has been editor for many years now and would happily pass the position on to a more active, fresh editor.

5. Education Session at the current meeting of CASCA.

David Turner of St. Mary's University organized a very successful Education Session which was held this morning just after the Plaskett Medal talk. Anne Young from the Rochester Institute of Technology gave a stimulating talk entitled "Science Teaching: Creating a Common

World View". Ms. Young has worked with Project STAR on developing exercises in spectroscopy.

The Education Committee is preparing for another Education Session at the next meeting of the Society in Victoria. Russ Robb at University of Victoria has agreed to coordinate the Session.

6. New educational activities for the Society.

The Board has indicated a desire for the Education Committee to explore other education initiatives, for example, a lecture series similar to the Shapley Lectures in the USA. The Committee asks for input of suggestions and ideas from the membership of the Society. Initiatives which might be linked to the formation of the Cascatrast are also under consideration.

9. JSSA Committee's Report : - G. Fahlman.

The JSSA has held two meetings since the last AGM: in Calgary on October 18/19 and in Ottawa on April 26/27. In addition, the Chairman attended meetings in Ottawa to discuss the ODIN mission, as a participant on the Working Group set up to refine the Space Science submission for the CSA Long Range Plan and finally, to be briefed on the Small Scientific Satellite study being undertaken by Bristol Aerospace under a CSA contract. Detailed reports on all these activities have been circulated.

A draft policy statement outlining current JSSA practices and procedures has been published in the Summer '92 issue of Cassiopeia (No. 75). In addition, a brief summary of activities (JSSA Notes) has been published in the same issue.

The Space Science submission to the CSA Long Range Plan includes several important recommendations for policy changes within the CSA. If implemented these changes would lead to the CSA assuming full (financial) responsibility for its supported missions - including science research costs which are now not supported by the CSA. This change could have a dramatic effect on the research funding available to Canadian astronomers.

The other major development is the recommendation from JSSA to support Canadian participation in the Swedish ODIN mission - specifically, we suggest that Canada assume a 20% share for the benefit of Astronomy. In addition, we recommend that part of Canada's contribution should include the construction of the spectrometers needed for the mission. This is, in fact, the first time that we will be contributing hardware directly to the 'instrument package' for a space mission and is a major milestone in the development of our Space Astronomy program. At the present time, the CSA is still considering the recommendation for ODIN participation.

Finally, committee membership was discussed. Denis Leahy has agreed to assume the role of Chairman of the JSSA. Two new members remain to be appointed. Names have been suggested and appropriate action will be taken.

10. SOIRA Committee's Report: - D. Crampton.

There has been minimal activity since the decisions by NRC and NSERC to proceed with a 15% share in the Gemini project. Prior to this, many SOIRA and community members campaigned very actively for a Canadian share. SOIRA believes that a full 25% share would have been much more preferable on both scientific and technical grounds, and that more large telescope time (than represented by 42.5% of CFHT and 15% of Gemini) will be required by the O/IR community by the end of the century.

Some preliminary discussion has ensued concerning what IR spectroscopic capabilities (for CFHT and Gemini) have the highest priority in our community. Since the

SOIRA membership will change significantly after the annual CASCA meeting, further discussion was deferred until the new membership is in place.

11. Radio Astronomy Committee's Report: - L. W. Avery.

REPORT OF THE RADIO ASTRONOMY COMMITTEE

There is good news from both of our national facilities for radio astronomy. The upgraded DRAO Synthesis Telescope has been operating since March of this year in continuum mode, and the increased sensitivity and image quality anticipated from the 7-antenna array have been realized. Spectral line observations at 1420 MHz are expected to start shortly. In Hawaii the successful commissioning of the new SIS receiver, B3i, has given the JCMT unequaled sensitivity for spectral line observations in the important 870 micron window.

The Radioastron project continues to progress well in spite of the political upheaval in the former Soviet Union. Western involvement is extensive and this has served to buffer the project against the difficulties in the C.I.S. The planned launch date is late 1995 or early 1996. The RA Committee has agreed to act as a review group for Radioastron science policy as it pertains to Canadian interests. The committee continues to feel that a Canadian correlation centre is necessary if we are to realize the full benefit of our investment in this project.

The RA Committee has reviewed the proposal from the University of Toronto for NSERC support of a collaboration with Cal Tech to upgrade the OVRO array. The U of T has offered to make available to the Canadian community one-half of the time they would be given if the collaboration proceeds. The committee is unanimously supportive of this project and would like to see it proceed. Because the major installation grant which would be requested from NSERC represents a significant fraction of the total annual budget for such proposals, we have recommended that the U of T should invite proposals for active participation in the project from astronomers in the rest of Canada.

In response to a request from the HIA Advisory Board, the RA Committee has agreed to draw up a proposal outlining what the next step(s) should be in the development of future directions for radio astronomy in Canada.

12. Gemini Progress Report :

D. C. Morton:

STATUS OF CANADIAN PARTICIPATION IN THE GEMINI TWIN 8-METRE TELESCOPES

NRC has received approval from Treasury Board to join with NSERC and WESTAR in seeking an agreement with our international partners, the US National Science Foundation and the UK Science and Engineering Research Council, to participate in the Gemini 8m telescope Project.

In November 1991, the NRC Council agreed to support the Gemini Project with up to \$CA 20.7 million so long as approval could be received for the re-allocation of NRC's resources. NSERC and WESTAR are providing the remaining \$15.3 million so that Canada can contribute a 15% share or up to \$CA 36 million for the Gemini Project.

With the recommendation of the President of NRC, Dr. Pierre Perron, and the support of the Minister of Science, the Hon. William Winegard, Treasury Board has now agreed to NRC's proposal to support the Gemini Project. As a result, Canada can now proceed to seek an agreement with the other countries for the construction of the telescopes.

Even with this approval, continuing NRC support is dependent on NRC's ability to reallocate funds while still supporting other existing national science facilities. Also, NRC support is based on HIA's long range plan for the coming decade.

T. Davidge:

Three aspects of the Gemini Telescope project were briefly reviewed:

1) New baseline telescope design.

A new baseline telescope design has been adopted. Notable features of this design are (1) reduced metal work in the telescope assembly, resulting in a lower amount of thermal inertia than the previous baseline design, and (2) a primary mirror which is exposed to air flow, resulting in improved air flushing. It is anticipated that both of these features will have a favorable impact on image quality.

2) Plans to develop large format infrared arrays.

The Gemini project plans to take the initiative in developing large format infrared arrays, with the goal of having a detector system capable of filling a field 3 arcmin on a side. Current plans are to develop 1024 X 1024 detectors for use in the 1 to 5 micron regime. These devices would be buttable, so that a mosaic detector system could be constructed.

3) Canadian participation in instrument development.

A final list of instruments for the Gemini Telescopes should be available by the fall of this year. It is anticipated that announcements of opportunity for participation in the instrument programme will be released by mid-1993.

13. CTAC Report: - D. Nadeau

Rapport du CCED du télescope Canada-France-Hawaii
Les membres du Comité canadien d'évaluation des demandes (CCED) pour l'année 1992 sont: Robert McClure, Daniel Nadeau (président), Chris Pritchett, Ralph Pudritz, Slavek Rucinski et Howard Yee.

Le nombre de demandes soumises au CCED a augmenté de 40 lors de chacun des semestres 1990~I et 1990~II, à 55 lors des semestres 1991~I et 1991~II, et 66 lors de chacun des semestres de 1992. Des statistiques plus détaillées des semestres 1991~II, 1992~I et 1992~II montrent que l'augmentation de la demande semble être due aux demandes venant de chercheurs d'institutions hors du Canada; dans la presque totalité des cas ces demandes requièrent du temps sombre. Le facteur de surdemande varie entre 3.0 et 3.7 selon les semestres et il est sensiblement le même en moyenne pour le temps sombre comme pour le temps avec lune.

Report from CFHT CTAC

The members of the Canadian Time Allocation Committee (CTAC) for 1992 are: Robert McClure, Daniel Nadeau (chairman), Chris Pritchett, Ralph Pudritz, Slavek Rucinski and Howard Yee.

The number of requests submitted to CTAC has increased from 40 in each of the 1990~I and 1990~II semesters, to 55 in the 1991~I and 1991~II semesters, and 66 for each of the 1992 semesters. More detailed statistics of the 1991~II, 1992~I, and 1992~II semesters show that the increase in demand appears to be due to requests from researchers at institutions outside Canada; in almost all cases these requests are for dark time. The oversubscription factor varies between 3.0 and 3.7 depending on the semester, and the dark and bright time average oversubscription is similar.

14. Motions from the floor:

There were no Motions from the Floor.

15. Report on Status of Cascatrust: - C. M. Clement.

Dr. C. Clement reviewed the steps taken to date by CASCA to form a trust which would be eligible to receive donations and issue receipts for income tax purposes. On April 1, 1992, CASCA signed a legal document which established "Cascatrust" as a trust, and which set forth its purposes and activities. On April 30, 1992, the trustees of Cascatrust submitted an application to Revenue Canada for registration, but no response was expected before the end of August. (Note added July 14: In a letter dated June 23, 1992, Cascatrust has in fact been informed that it does qualify for tax-exempt status as a registered charity, effective April 1, 1992.)

16. Election of Auditor for 1991/92.

Van den Bergh called for nominations for Auditor.

Motion 3.

**Moved by R. F. Garrison, seconded by A. R. Taylor, that:
The Society ask N. R. Evans to act as Auditor for 1992/93.
Carried.**

Van den Bergh announced that Evans had agreed to act as Auditor for 1992/93, and thanked her for performing that task in 1991/92.

There was some discussion about the need for special qualifications for Auditor in view of the incorporation of the Society. The President agreed to look into the matter and report to the next Meeting.

17. Call for Nominations to the 1992 Nominating Committee:

Van den Bergh reminded the Meeting that, as Past President, he would chair the Nominating Committee and that the Meeting was to select two additional members.

Motion 4.

**Moved by W. E. Harris, seconded by d. R. Bochonko, that:
G. Fontaine be nominated to the Committee.**

Motion 5.

**Moved by D. Crampton, seconded by J. R. Percy, that:
P. P. Kronberg be nominated to the Committee.**

Motion 6.

**Moved by V. A. Hughes, that :
Nominations cease.
Carried.**

Fontaine and Kronberg have been nominated by acclamation to this Committee. Nominations to the Nominating Committee remain open to July 30, 1992 (for thirty days following the Annual General Meeting).

18.. Future CASCA Meetings:

- i). 1993 - University of Victoria/DAO, Victoria, BC.
D. R. Crabtree gave a brief overview of the plans in progress for the meeting at Victoria. The Meeting will be held on the campus of the University of Victoria from June 1 - 4 with a reception hosted by the Lieutenant-Governor on June 1st. Margaret J. Geller has

consented to give the Hogg Lecture, and Maarten Schmidt has kindly agreed to give the Petrie Lecture.

- ii). 1994 - University of Western Ont. - London, ON.
- iii). 1995 - Dominion Radio Astrophysical Observatory, Penticton, BC.
- iv). 1996 - Queen's University, Kingston, ON.

The dates for 1994 - 1996 have not been set.

19. Result of Election for Director:

The Secretary read the results tabulated by the Scrutineers; Slavek M. Rucinski has been elected to the Board of Directors, CASCA.

20. Report on CITA Membership Nomination:

D. A. Vandenberg and F. David A. Hartwick were nominated by the Board to the CITA Council.

21. Other Business:

R. F. Garrison noted that the UTSO telescope has been named the Helen Sawyer Hogg Telescope of the University of Toronto Southern Observatory and asked that the Society send greetings and best wishes to Helen Hogg with wishes for the continued production of excellent science from this telescope.

22.. Adjournment:

The President declared the Meeting adjourned.

S. van den Bergh, President

N. W. Broten, Secretary

**CANADIAN ASTRONOMICAL SOCIETY
SOCIÉTÉ CANADIENNE D'ASTRONOMIE
INC. 1983**

**Financial Statement as of March 31, 1992
(giving details since the March 31, 1991 statement)**

(1990-91)		(1991-92)
38875.25	Balance on March 31, 1991	43712.61
INCOME		
11045.53	Membership dues	11919.33
1803.29	Bank Interest (Canada Trust)	1054.33
555.94	GIC Interest (Petrie fund)	663.00
537.50	GIC Interest (General funds)	637.50
1100.00	GIC Interest (Beals fund)	1075.00
	Contributions toward shipping journals abroad	
444.30	-from International Atomic Energy Corp.	-
500.00	Contribution from Spar Aerospace for bursaries	-
2055.68	Government of Canada for 'Status' report	-
-	Contribution to Hogg Lecture Fund	1000.00
-	Profits from annual meetings (Calgary, York)	1088.07
18042.24	TOTAL INCOME	17437.23
EXPENDITURES		
1812.48	Cassiopeia	4392.31
-	President - postage	21.40
4843.66	Secretary - postage, copying, printing constitution, membership directory, status report, etc.	2699.31
319.20	Treasurer - postage, copying, etc.	343.34
30.00	Receiver General	30.00
1500.00	Small Grants	1500.00
-	Petrie Lecture	1592.33
-	Petrie Lecture (publication charges)	-
508.29	Hogg Lecture (costs shared equally with RASC)	300.00
855.50	Hogg Lecture (publication charges shared with RASC)	-
1000.00	Beals Award	-
	Plaskett Medal	
450.00	-publication charges (shared with RASC)	-
532.81	-recipient's travel	661.90
-	ASP - Universe in classroom (\$864.00 US)	1003.40
852.94	Shipment of books to India and Peru	289.00
-	Legal fees	-
500.00	York University for Spar bursaries	-
13204.88	TOTAL EXPENDITURES	12832.99
43712.61	Balance on March 31, 1992	48316.85

Balance Sheet
(March 31, 1992)

Assets**Canada Trust**

Chequing Savings account #326 506616	22116.85
GIC (#326 2106458)	10000.00
GIC (#326 2101217 - Petrie Fund)	5200.00
GIC (#326 2104814 - Hogg Fund)	1000.00
GIC (#326 2145002 - Beals Fund)	<u>10000.00</u>
	48316.85

Liabilities

nil

Equity

48316.85

Christine M. Clement

Christine M. Clement, Treasurer

May 1, 1992

Date

I have examined the books, receipts, and other documentation provided by the Treasurer and I am satisfied that this Financial Statement is a true and correct statement of the financial affairs of the Society from April 1, 1991 to March 31, 1992.

Nancy R. Evans

Nancy R. Evans, Auditor

May 1, 1992

Date

ASTRONOMY/ASTROPHYSICS
Department of Geophysics and Astronomy, UBC

Applications are invited for a tenure track assistant professor position in astronomy beginning July 1, 1993. Appointment may be considered at a higher rank for a woman with exceptional qualifications. Applications are encouraged in both observational and theoretical astrophysics: we are seeking an outstanding scientist who will complement our existing strengths in stellar, galactic, and extragalactic astronomy, cosmology and astronomical instrumentation. The appointee will be expected to teach undergraduate and graduate courses, to develop a strong research program, and to supervise graduate students. Salary will be commensurate with experience. Applicants must possess a Ph.D. This

position is subject to final budgetary approval. In accordance with Canadian immigration requirements, priority will be given to Canadian citizens and permanent residents of Canada. UBC encourages qualified women and minority applicants.

Applications including a resume, a statement of research interests, and the names of three referees should be sent to:

Dr. R.M. Ellis,
 Head, Department of Geophysics and Astronomy,
 University of British Columbia,
 Vancouver, B.C., Canada, V6T 1Z4

by December 1, 1992.

LETTER TO THE EDITOR

Dear Sir:

A recent issue of *Cassiopeia* (No 74) contains an announcement of a position at the Dominion Astrophysical Observatory for an observational cosmologist. Appended to a list of appropriate qualifications we find "a security screening will be required".

Most of us have assumed that astronomy, particularly cosmology, is among the purest of pure sciences. I am therefore disturbed to see this requirement which

would be more appropriate for an American missile factory than for a Canadian astronomical observatory.

I invite someone to explain this anomaly. However, at the risk of trivializing the issue, let me suggest that someone at Supply and Services misunderstood the term "big bang".

Sincerely

John Galt
 Penticton

MEMBERSHIP NEWS

Please note that Austin Gulliver is the new secretary of CASCA and that address and e-mail changes should be sent to him so that this information will be correct in the next membership directory. Austin's e-mail address is shown on the back cover of *Cassiopeia*.

In addition, applications for membership should be received by the Secretary before the middle of November for consideration at the November meeting of the

Board. Dues are \$35 for ordinary members, \$14 for students and \$75 for Corporate members. A cheque payable to the Canadian Astronomical Society should be included with the application. Application forms are on page 33 and 34 of the 1992 Membership Directory, but should be mailed to Austin Gulliver, NOT N. W. Broten.

PLASKETT MEDAL

The Royal Astronomical Society of Canada and the Canadian Astronomical Society have established an award entitled The Plaskett Medal in recognition of the pivotal role played by John Stanley Plaskett in the establishment of astrophysical research in Canada. The award, consisting of a gold medal, is to be made annually to the graduate from a Canadian university who is judged to have submitted the most outstanding Doctoral Thesis in astronomy or astrophysics in the preceding two calendar years.

At most two candidates should be nominated by the

head of his/her astronomy/physics department from among the graduates of that university. The department head should submit a letter of recommendation and four copies of the nominee's thesis to the Awards Committee*, prior to 15 January 1993, for consideration for the 1993 award.

Note that the phrase "in the two preceding calendar years" in the eligibility rules makes it possible to re-nominate a candidate for whom an unsuccessful nomination was made in the preceding year. Because none of the documen-

tation of previous nominations is retained for the use of the current selection committee, all re-nominations should be submitted with full documentation.

La Société Royale d'Astronomie du Canada et la Société Canadienne d'Astronomie ont institué un prix, nommé La Médaille Plaskett, en reconnaissance du rôle important qu'a joué John Stanley Plaskett dans l'implantation de la recherche en astrophysique au Canada. Le prix, qui consiste en une médaille d'or, est offert chaque année à un(e) diplômé(e) d'une université canadienne qui, d'après l'opinion du jury, a soumis la meilleure thèse de doctorat en astrophysique des deux dernières années.

Au plus, deux candidat(e)s par département peuvent être proposés(e) par le directeur du département. Le

directeur doit transmettre une lettre de recommandation et quatre copies de la thèse du (de la) candidat(e) choisi(e) au comité des prix* et ce, avant le 15 janvier 1993 pour que le (ou la) candidat(e) soit considéré(e) pour le prix de 1993.

S.V.P., veuillez noter que l'expression "les deux dernières années" spécifiée par les règlements d'éligibilité, permet de proposer pour une deuxième fois un(e) candidat(e) qui n'a pas été retenu(e) l'année précédente. Cependant il faut soumettre de nouveau les documents nécessaires à l'évaluation car les membres du jury changent d'une année à l'autre.

*Prof. W.H. Wehlau, Chairperson
CASCA Awards Committee
Astronomy Department
University of Western Ontario
London, Ontario N6A 3K7

HONOUR FOR GERHART HERZBERG

Our congratulations to Gerhart Herzberg, an Honorary Member of CASCA, on his being named a Pricy Councillor.

THE HELEN SAWYER HOGG TELESCOPE

Reprinted from the *David Dunlap Doings*

Last June 19 was indeed a festive day at DDO. The President was there; the Dean was there; David and Moffat Dunlap were there; Don Morton from HIA was there; people from as far as Halifax and Saskatoon were there. The place was packed. Messages of goodwill poured in from across the world. Speeches were made, bouquets presented, champagne toasts drunk.

The grand event marked the naming of the University of Toronto's 0.6m telescope in Chile after Helen Sawyer Hogg, *grande dame* of Canadian astronomy and first president of CASCA. Helen, of course, was there, responding delightfully to speeches in her honour and the presentation of a plaque, a duplicate of which is

now affixed to the Chile telescope. Later, in the library, David Dunlap, grandson of her after whom the Observatory is named, proposed a charming toast, which was responded to by David Hogg, Helen's older son. Many pictures were taken and a grand scrapbook of the memorabilia surrounding the day is in preparation; it will be accompanied by a video of events.

Now 87, Helen has given up her DDO office and is kept busy at home dealing with archivists instead, but she reminded the assembly that she wasn't yet prepared to hand in her DDO keys. Like General Douglas MacArthur, she shall return!

DON FERNIE

AN IMPORTANT MESSAGE TO CANADIAN USERS OF THE JCMT

The following item describes a one-year trial for assigning JCMT time by national allocation committees, with an international committee making the final time assignments. The trial scheme will be similar to that used by the CFHT. Since the trial affects JCMT proposals for the next two semesters, namely X and Y, we hope you will read it carefully.

TRIAL SCHEME FOR ALLOCATION OF OBSERVING TIME ON THE JCMT

1. Introduction

1.1 The JCMT Board agreed at its meeting in May 1992 to implement a trial scheme for allocation of observing time on the JCMT. The principles of the scheme and the instructions for applicants are detailed below. Although the University of Hawaii is a Partner in the Tripartite Agreement, it deals separately with the allocation of the share of telescope time assigned to it. The trial scheme therefore applies to applications from the three Parties to the Agreement — the UK, Canada and the Netherlands — and to International applications (those not from

the UK, Canada, Netherlands or the University of Hawaii).

1.2 The trial will be for two Semesters, X and Y, starting with allocation of telescope time from February 1993. It will be reviewed, and a report presented to the Board after the allocation of Semester Y time in October 1993, by the International Time Allocation Committee (see section 4 below) after informal consultation with the national Time Allocation Groups (TAGs) and communities. The Board will consider at that time what is the most appropriate procedure for the allocation of the JCMT time in the longer term.

1.3 Canada, the Netherlands and the UK will each establish and run a national TAG, which will assess national and international proposals on the grounds of scientific merit and report to an International Time Allocation Committee (ITAC), which will make the final time allocations. The nationality of a proposal shall be regarded as determined by the principal investigator or, if the PI is not from one of the three Parties, the first-named co-investigator on the application who is from one of the Parties.

2. Administrative Details

2.1 For the period of the experiment, the present PATT form shall be used by all applicants. Completed forms should be submitted to national addresses (see 'Instructions to Applicants', below).

PROCEDURES FOR HANDLING APPLICATIONS FOR TIME ON THE JCMT DURING THE TRIAL PERIOD (SEMESTERS X AND Y)

1. Instructions to Applicants

1.1 For the duration of the trial, all applicants should use the standard PATT application, copies of which may be obtained from the national TAG. The same number of copies as requested on the forms should continue to be submitted.

1.2 Applications for JCMT time should be submitted to the national TAG of the Principal Investigator (PI) or, if the PI is not from one of the three Parties, to the national TAG of the first-named co-investigator on the application who is from one of the Parties. International Applications (those with no applicants from one of the Parties) should be submitted to the UK national TAG.

1.3 Addresses to which applications should be sent are:

UK: PATT Secretariat
Polaris House
North Star Avenue
SWINDON
SN2 1ET

Canada: JCMT Time Allocation Group for Canada
c/o Director General
Herzberg Institute of Astrophysics
National Research Council of Canada
100 Sussex Drive
Room 2003
Ottawa Ontario
K1A 0R6
CANADA

Netherlands: JCMT Program Committee
c/o Dr Frank Israel
Leiden Observatory
P O Box 9513
2300 RA Leiden
NETHERLANDS

The closing date for Dutch applications will be 15 September (not 30 September as for other TAGs). The Canadian Time Allocation Group (C-TAG) will be Pierre Bastien (U.Montreal), Paul Feldman (HIA Ottawa), Judith Irwin (Queen's U.), George Mitchell (St. Mary's U.), and Chris Rogers (HIA, DRAO). Paul Feldman will be the C-TAG chairman and the Canadian representative on the International Time Allocation Committee (ITAC). Jacques Vallée, who previously served three years as Technical Secretary to the JCMT TAG, will be Technical Secretary to the C-TAG. As in the past, the Canadian proposals may be submitted in either English or French. However, since all proposals must be checked for technical feasibility by the Hilo staff, we must have French proposals three weeks prior to the deadline in order to have them translated.

John M. MacLeod
JCMT Group
Radio Astronomy and
Spectroscopy Program
HIA, NRC
Ottawa

UNE ANNONCE IMPORTANTE AUX UTILISATEURS CANADIENS DU TÉLESCOPE JAMES CLERK MAXWELL

Dans les deux textes qui suivent, nous décrivons l'essai d'une nouvelle procédure d'évaluation des demandes et d'attribution du temps par un comité na-

tional et un comité trinational. L'essai de cette méthode, similaire à celle du télescope CFH, se poursuivra pendant les deux prochains semestres — X et Y. Étant

donné l'impact qu'auront ces nouvelles procédures sur vos prochaines demandes, nous recommandons une lecture attentive de ce qui suit.

ESSAI D'UNE NOUVELLE PROCEDURE D'OCTROI DE TEMPS D'OBSERVATION AU TÉLESCOPE JCM.

1. Introduction

1.1 Lors de sa réunion de mai 1992, le conseil d'administration du télescope James Clerk Maxwell a décidé de mettre à l'essai une nouvelle méthode de partage du temps d'observation. Nous la décrivons plus bas et discutons des directives intérimaires de demandes de temps. Quoique l'Université d'Hawaï soit partie à l'entente tripartite, elle distribue indépendamment la portion de temps qui lui est dévolue. L'essai de cette nouvelle procédure ne s'appliquera donc qu'aux demandes britanniques, canadiennes et néerlandaises, ainsi qu'aux demandes internationales, c'est à dire provenant d'un pays tiers.

1.2 Cet essai ne s'étendra qu'aux semestres X et Y, à partir du calendrier d'observation de février 1993. Le comité trinational, après consultations informelles avec les communautés scientifiques et leur comité national réévaluera l'essai et produira un rapport au Conseil d'administration, après avoir affecté le temps du semestre Y, en octobre 1993. Le Conseil d'administration reconsidèrera alors quelle est la meilleure procédure d'évaluation des demandes et d'affectation du temps à long terme.

1.3 Chacun des trois états constituera et fera fonctionner un Comité national d'évaluation des demandes (CNED) qui cotera, sur leurs mérites scientifiques, les demandes provenant de leur pays ou d'un pays tiers. Ces comités présenteront leurs recommandations au Comité trinational (CTAT) qui fera l'attribution définitive du temps. La *nationalité* d'une demande sera celle de l'institution de l'instigateur de la demande ou, si elle n'était pas de l'un des trois pays de l'entente, celle de l'institution du premier des collaborateurs satisfaisant à ce critère.

2. Le formulaire

2.1 Pendant l'essai, le formulaire actuel, le *PATT-3*, révisé en mai 1989, devra être utilisé pour toutes les demandes. Celles-ci devront être envoyées aux comités nationaux (dont les adresses apparaissent, plus bas, dans les directives aux demandeurs).

PROCÉDURE DE DEMANDE DE TEMPS PENDANT LA PÉRIODE D'ESSAI (SEMESTRES X ET Y)

1. Directives

1.1 Pendant la période d'essai, les demandeurs devront utiliser le formulaire courant (*PATT-3*, révisé en mai

1989) que l'on pourra l'obtenir auprès des comités nationaux d'évaluation des demandes. Ils devront envoyer le nombre de demande requis tel qu'indiqué sur le formulaire.

1.2 Les demandes devront être envoyées au comité national de l'instigateur ou, si celui-ci ne travaillait pas dans un des pays de l'entente, au comité national du premier des collaborateurs travaillant dans l'un de ces pays. Les demandes internationales, celles pour lesquelles tous les collaborateurs sont de d'autres pays, devront parvenir au comité britannique.

1.3 Adresses des comités nationaux :

Le Canada : Le Comité canadien de demandes au télescope JCM
A/S Monsieur le Directeur-Général de
l'Institut Herzberg d'astrophysique
Conseil national de recherches du Canada
100, promenade Sussex, Salle 2003
Ottawa (Ontario)
K1A 0R6
CANADA

Le Royaume-Uni : PATT Secretariat
Polaris House
North Star Avenue
SWINDON
SN2 1ET
Royaume-Uni

Les Pays-Bas : Comité du programme du télescope
JCM
Doctor Frank P. Israel
Sterrewacht
Postbus 9513
2300 RA Leiden
Les Pays-Bas

La prochaine échéance pour les demandes néerlandaises sera le 15 septembre et le 30 septembre pour les deux autres pays.

Le comité canadien d'évaluation des demandes se composera de madame Judith Irwin de l'université Queen et de messieurs Pierre Bastien de l'Université de Montréal, Paul Feldman de l'Institut Herzberg à Ottawa, George Mitchell de l'université St-Mary et Christopher Rogers de l'Observatoire fédéral de radioastrophysique. Monsieur Paul Feldman sera le président du CTAT et représentera les intérêts canadiens au Comité trinational d'attribution du temps de télescope. Monsieur Jacques Vallée, qui fut pendant trois ans secrétaire du Comité d'attribution du temps d'observation au télescope James Clerk Maxwell, aura les mêmes responsabilités auprès du comité canadien.

Comme auparavant, les demandes canadiennes pourront être faites en français ou en anglais. Cependant, nous devons la faire traduire en anglais pour permettre

au personnel du *Joint Astronomy Centre* à Hilo d'en faire l'évaluation technique. Ceci nous oblige à rapporter l'échéance pour les demandes en français à trois semaines avant le 30 septembre, soit le 9 septembre.

John M. MacLeod

Groupe du Telescope
James Clerk Maxwell
Programme de radio-
astronomie et de spectroscopie
Institut d'astrophysique Herzberg
Conseil national de recherche du Canada

THANKS FROM THE 1992 PLASKETT MEDALIST

During the latest CASCA annual meeting in Halifax, I had the good pleasure of receiving this year's Plaskett medal. This was a great honour for me, perhaps the most important event of my scientific life.

It very much came as a surprise. My thesis topic, suggested to me by Werner Israel at the University of Alberta, was 'the internal structure of black holes'. By their very definition, black holes emit nothing; my research therefore had no observational consequences whatever! And yet my thesis was judged worthy of the Plaskett medal.

For me this was the greatest gift. I had always wanted to call myself an astrophysicist, which somehow sounds a little more charming than just physicist. But I was shy, because of the marginal character of my work. Now I know that I am indeed an astrophysicist,

and that CASCA and RASC are there to back me on this call!

I want to take this opportunity to convey my deepest gratitude to the members of the Canadian Astronomical Society, and of the Royal Astronomical Society of Canada, for awarding me the Plaskett medal. In particular, I wish to thank all those who were involved in the selection of the Plaskett medalist (and among them, those unfortunate people who had to read my thesis!). My thanks also go to my supervisor Werner Israel, without whom there would have been no thesis.

ERIC POISSON

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California Institute of Technology
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CANADIAN INSTITUTE FOR THEORETICAL ASTROPHYSICS INSTITUT CANADIEN D'ASTROPHYSIQUE THEORIQUE POSTDOCTORAL FELLOWSHIPS

CITA is a national centre for theoretical astrophysics located at the University of Toronto. The Institute expects to offer several postdoctoral fellowships with a starting date of 1 September, 1993. The appointments will be of two years duration. Funds will be available for travel and other research expenses. Fellows are expected to carry out original research in theoretical astrophysics under the general supervision of the permanent faculty or visitors to CITA, whose interests include: cosmology, interstellar matter, nuclear and relativistic astrophysics, solar physics, star formation, stellar structure, active galactic nuclei and galactic and solar system dynamics.

Applicants should send:
a curriculum vitae
statement of research interests
and arrange for three letters of recommendation
to be sent to the Director of CITA

All applications and letters should be sent to:
Professor S. Tremaine, Director
Canadian Institute for Theoretical Astrophysics
University of Toronto, 60 St. George Street
Toronto, Ontario, CANADA, M5S 1A7

DEADLINE FOR APPLICATIONS AND ALL LETTERS OF RECOMMENDATION IS 15 DECEMBER, 1992

CITA NATIONAL FELLOWS

CITA is a national centre for theoretical astrophysics located at the University of Toronto. As part of its mandate to enhance research opportunities and to encourage professional interactions throughout Canada, the Institute provides partial support for postdoctoral fellows working in theoretical astrophysics or closely related fields at Canadian universities other than the University of Toronto, through its National Fellows program.

The responsibility for identifying and nominating potential CITA National Fellows who will work at a given university lies with the faculty at that university. Only faculty at Canadian universities may submit nominations. For each prospective fellow, the nomination portfolio should consist of:

a curriculum vitae and bibliography; a statement of proposed research; a support letter from the faculty member submitting the nomination, stating how the applicant is expected to contribute to the local research program; 3 letters of recommendation for each candidate.

There is no limit on the number of nominations per faculty member or per university; however, any faculty member submitting more than one nomination is asked to provide a covering letter in which the nominees are ranked in order of preference, with reasons given for the ordering. The application will be examined by CITA Council and ranked along with, and using the same standards as, applications for postdoctoral research fellow positions to be held at CITA.

There are presently four National Fellows, and we expect to award up to two new National Fellowships for the 1993-94 academic year. The deadline for nominations is 15 December, 1992 for fellowships to start in 1993-1994. If necessary, nominations may be sent in without a complete set of letters of recommendation; letters of recommenda-

tion not included in the nomination package will be accepted if they reach CITA no later than January 2. Nomination portfolios should be sent to:

Prof. Scott Tremaine, Director,
Canadian Institute for Theoretical Astrophysics,
University of Toronto
60 St. George Street,
Toronto, Ontario M5S 1A7

CITA will notify the nominator of each successful candidate that a CITA National Fellowship has been awarded and will guarantee funding of \$13,750 per year for up to two years towards the fellow's salary. It will then be up to the nominator to contact and recruit the applicant. All hiring will be done through the nominator's university. The remainder of the fellow's salary must be raised from operating grants or by the nominator's university. Note that the maximum stipend from NSERC funds (including the \$13,750 from CITA) cannot exceed the NSERC ceiling (currently \$27,500) although there is no restriction on the use of non-NSERC funds to supplement the stipend.

It is expected that the Fellow will spend at least 80% of his/her time resident at the nominator's home university unless alternative arrangements are approved in advance by both the nominator and the Director of CITA. Although there is no obligation for CITA National Fellows to spend part of their fellowship at CITA in Toronto, we encourage such visits and would normally provide support for up to two visits per year. Fellows are permitted to instruct or teach for up to 300 hours per year subject to the consent of the nominator.

Fellows are expected to acknowledge CITA in all publications written or researched while holding the Fellowship, either by listing CITA as an affiliation, or by acknowledging partial salary support from CITA, or by using the title "CITA National Fellow".

CANADA-FRANCE-HAWAII TELESCOPE CORPORATION EXECUTIVE APPOINTMENTS

The Board of the Canada France Hawaii Telescope Corporation is pleased to announce the appointments of Dr. Pierre Couturier as Executive Director and Dr. John Glaspey as Associate Director for three year terms beginning 1 August 1993. The terms are renewable for a further two years.

Dr. Couturier has held a number of important positions in astronomy. He was Director of the Space Research division of the Paris Observatory from 1978 to 1985, and Associate Director of the Institut National des Sciences de l'Univers from 1986 to 1991. He has been a member of the Boards of Management of the CFHT Corporation (1986-91) and IRAM (1986-

91), vice-Chairman of the Board of Management of the Paris Observatory, and Chairman of the International Scientific Committee of the Observatory of the Canaries.

Dr. Couturier's research has concentrated on astrophysical plasmas, and particularly on developing a theoretical understanding of processes in the solar wind and solar corona. He has participated as co-investigator in international space research experiments under the auspices of NASA and ESA: he prepared scientific specifications for equipment and data systems for the International Comet Explorer (ICE) and ULYSSES, the solar polar mission. Throughout his career he has been

a teacher at the University of Paris, where he has given many lecture courses in topics ranging from electricity to radiation transfer and magnetohydrodynamics.

Dr. Couturier has wide experience in international negotiations and agreements. He helped negotiate the agreements that brought Spain into IRAM, that involved France with the telescope installations on the Canary Islands, and that set up a collaboration between France and Italy on the THEMIS project. As Associate Director of INSU he was involved in the decision to associate French astronomy with the ESO VLT project. To prepare for French participation in this project he coordinated the activities of astronomers and industrial partners and chaired project reviews of proposals for VLT focal instrumentation presented under French leadership. He also organised project reviews of prototype optical interferometers. He participated in the agreement on the VIRGO gravity wave instrument and in the evaluation of that project, and took part in the meetings of the G7 Joint Working Group on Ground Based Astronomy. Recently he has overseen the setting up of a national data network interconnecting the laboratories of all French research organisations, and is part of a group charged with creating by 1993 an organisation to operate a European telecommunications network connecting all the national networks.

Dr. Couturier takes great pleasure in helping other scientists bring their projects to fruition, and the Board of the CFHT is confident that he will use his experience, his enthusiasm, his energy, and his gift for inspiring cooperation to lead the Corporation successfully

through the coming years when it must position itself to face the challenge from the newer, larger telescopes that will soon be inaugurated.

Dr. John Glaspey is the current Associate Director of the Canada-France-Hawaii Telescope. Before joining the CFHT in 1988 as a resident astronomer, he was an astronomer-engineer with the Department of Physics at the University of Montreal from 1976 to 1988. Previous to that he had been a research associate and lecturer in the Geophysics and Astronomy Department at the University of British Columbia from 1971 to 1976. He is an instrumentation expert, and has served on a number of Canadian national committees involved with space astronomy and data acquisition and processing. His research interests include high resolution spectroscopy of blue horizontal branch stars and studies of the relationship between the physical properties and rotational properties of stars in galactic open clusters.

Dr. Glaspey is project manager for the new high resolution coude spectrograph for the CFHT, and is heavily involved in both the maintenance of the existing suite of instruments and in the development of new infrared and optical imaging capabilities. Dr. Glaspey's expertise and experience will be vital to the CFHT's ambitious program of instrumentation development over the next few years.

The Canada-France-Hawaii Telescope Corporation is a not-for-profit organisation founded jointly by the National Research Council of Canada, the Centre National de la Recherche Scientifique of France, and the University of Hawaii.

SOCIÉTÉ DU TÉLESCOPE CANADA-FRANCE-HAWAII NOMINATIONS AUX POSTES DE DIRECTION

Le Conseil d'administration de la Société du Télescope Canada-France-Hawaii a le plaisir d'annoncer la nomination de M. (Dr.) Pierre Couturier au poste de directeur exécutif et de M. (Dr.) John Glaspey au poste de directeur adjoint pour une durée de trois ans à partir du 1er août 1993. Le mandat est renouvelable pour une durée de deux ans.

M. Couturier a rempli plusieurs fonctions importantes dans le secteur de l'astronomie. Il a été directeur du Département de recherche spatiale de l'Observatoire de Paris de 1978 à 1985, et directeur adjoint de l'Institut national des Sciences de l'Univers de 1986 à 1991. Il a été membre du Conseil d'administration du TCFH (1986-1991) et de l'IRAM (1986-1991), vice-président du Conseil d'administration de l'Observatoire de Paris, et président du Comité científico internacional de l'Observatoire des îles Canaries.

La recherche conduite par M. Couturier a principalement porté sur les plasmas interplanétaires, et notamment sur l'élaboration d'une explication théorique

des processus qui ont lieu dans le vent et dans la couronne solaires. En tant que chercheur associé, il a participé aux expériences conduites dans le cadre de la recherche spatiale internationale sous les auspices de la NASA et de l'ESA: il a préparé des spécifications scientifiques applicables à l'appareillage et aux systèmes d'information pour l'International Comet Explorer (ICE) et ULYSSES, la mission d'étude des régions polaires du Soleil. Pendant toute sa carrière, il a enseigné à l'Université de Paris, où il a donné de nombreux cours sur des thèmes allant de l'électricité aux transferts de rayonnement et à la magnétohydrodynamique.

M. Couturier a acquis une grande expérience dans le domaine des négociations et accords internationaux. Il a aidé à négocier les ententes qui ont permis la participation de l'Espagne à l'IRAM, la participation de la France à l'installation des télescopes dans les îles Canaries, et la collaboration de la France avec l'Italie au projet THEMIS. En qualité de directeur adjoint de l'INSU, il a contribué à la décision d'associer

l'astronomie française au projet ESO VLT. Pour préparer la participation de la France à ce projet, il a coordonné les activités des astronomes et des partenaires de l'industrie, et présidé les études de projets se rapportant aux propositions sur l'instrumentation focale du VLT, présentées sous la direction de la France. Il a aussi organisé des séances d'examen de projets relatifs aux prototypes d'interféromètres optiques, et participé à la négociation de l'entente sur l'appareil VIRGO de mesure des ondes gravimétriques et à l'évaluation de ce projet, ainsi qu'aux réunions du Groupe conjoint (Groupe G7) d'études astronomiques conduites à partir d'installations au sol. Il a récemment supervisé l'établissement d'un réseau national de données reliant entre eux les laboratoires de tous les organismes français de recherche, et fait partie d'un groupe chargé de créer d'ici à 1993 un organisme qui puisse exploiter un réseau de télécommunications assurant l'interconnexion de tous les réseaux nationaux.

M. Couturier aide volontiers les autres chercheurs en vue de l'aboutissement fructueux de leurs projets de recherche, et le Conseil d'administration du TCFH est certain que son expérience, son enthousiasme, son énergie et sa capacité à stimuler la coopération, aideront la Société à réaliser avec succès son mandat dans les années à venir, durant lesquelles elle devra affronter la concurrence de télescopes nouveaux et plus grands qui seront bientôt inaugurés.

M. John Glaspey est actuellement le directeur adjoint de la Société du Télescope Canada-France-

Hawaii. Avant de rentrer à la Société TCFH en 1988 en qualité d'astronome en poste, il était ingénieur astronome au Département de Physique de l'Université de Montréal de 1976 à 1988. Et auparavant, de 1971 à 1976, il était chargé de recherches associé et chargé de cours au Département de géophysique et d'astronomie de l'Université de Colombie-Britannique. Il est expert dans le domaine des instruments, et a fait partie de plusieurs comités nationaux du Canada sur l'astronomie à partir d'engins spatiaux et sur l'acquisition et traitement des données astronomiques. Sa recherche porte principalement sur la spectroscopie de haute résolution des étoiles bleues de la branche horizontale, et sur la relation entre les propriétés physiques et les propriétés rotationnelles des étoiles dans les amas stellaires ouverts.

M. John Glaspey est chef du projet concernant le spectrographe Coudé du TCFH, et s'occupe activement à la fois de l'entretien de la série existante d'instruments et de la mise au point des nouvelles possibilités en matière d'imagerie infrarouge et d'imagerie optique. Les compétences et l'expérience de M. Glaspey seront cruciales pour la réalisation du programme ambitieux de la Société TCFH sur la mise au point d'instruments au cours des prochaines années.

La Société du télescope Canada-France Hawaii est un organisme sans but lucratif financé conjointement par le Conseil National de recherches du Canada, le Centre National de la Recherche Scientifique de France, et l'Université d'Hawaii.

CANADIAN ASTRONOMY PUBLICATIONS

June 9 to September 1, 1992

If you have a preprint or other Canadian publication, we would like to include it in this list. Please send a copy (or a photocopy of the title page) to:

Canadian Astronomy Publications List
Astronomy Library
University of Toronto
Room 1306
60 St. George Street
Toronto, Ontario
M5S 1A7

A. PREPRINTS OF RESEARCH PAPERS

The following is a list of preprints written by Canadian astronomers and received at the Astronomy library within the dates given above. The preprints are arranged in alphabetical order according to the surname of the first listed author. Originating institution and date of receipt at the library are given.

Annual report of the Dominion Astrophysical Observatory for the period 1 April 1991 - 31 March 1992. Dominion Astrophysical Observatory 7-Jul-1992

Avery, L.W. et al., *A spectral line survey of IRC 10216 at millimeter and sub-millimeter wavelengths*. Herzberg Institute of Astrophysics, 16-Jun-1992.

Bell, M.B., et al, *The excitation temperature of HC9N in the circumstellar envelope of IRC+10216 (title page only)*. Herzberg Institute of Astrophysics, 16-Jun-1992.

- Binette, L., et al, *Lyman alpha emission from thick clouds photoionized by the metagalactic radiation*. Canadian Institute for Theoretical Astrophysics, 15-Jul-1992.
- Blaes, O., Madau, P., *Can we observe accreting, isolated neutron stars?*. Canadian Institute for Theoretical Astrophysics, 18-Aug-1992.
- Carlberg, R., *Merging and fast galaxy evolution*. David Dunlap Observatory, University of Toronto, 5-Aug-1992.
- Chen, H., Marlborough, J.M., Waters, L.B.F.M., *Dynamics of the envelopes of Be stars in the equatorial plane*. University of Western Ontario, 17-Jun-1992.
- Dones, L., Tremaine, S., *On the origin of planetary spins*. Canadian Institute for Theoretical Astrophysics, 18-Aug-1992.
- Dones, L., Tremaine, S., *Why does the earth spin forward?*. Canadian Institute for Theoretical Astrophysics, 18-Aug-1992.
- Eales, S.A., Rawlings, S., *Infrared spectroscopy of 11 radiogalaxies at $z \approx 4$: evidence that some high-redshift radiogalaxies may be protogalaxies*. David Dunlap Observatory, University of Toronto, 20-Jul-1992.
- Eales, S.A., Rawlings, S., *Infrared spectroscopy of radiogalaxies at $z \approx 4$: evidence that some high-redshift radiogalaxies may be protogalaxies*. David Dunlap Observatory, University of Toronto, 18-Aug-1992.
- Evans, N.R., Welch, D.L., *The companion of the classical cepheid Z Lac*. Institute for Space and Terrestrial Sciences, York University, 3-Jul-1992.
- Evans, N.R., et al, *A multifrequency comparison of cepheids and nonvariable supergiants*. Institute for Space and Terrestrial Sciences, York University, 21-Aug-1992.
- Freedman, W.L., *Infrared-luminous giants in M32: evidence for an intermediate-age population*. Observatories of the Carnegie Institution of Washington, 24-Jun-1992.
- Gray, D.F., et al, *the activity cycle of [sigma] Draconis*. University of Western Ontario, 10-Jul-1992.
- Gregory, P.C., Lored, T.J., *A new method for the detection of a periodic signal of unknown shape and period*. University of British Columbia, 15-Jul-1992.
- Helou, G., Madore, B.F., et al, *NASA/IPAC extragalactic database*. IRAS, 9-Jul-1992.
- Hickson, P., et al, *Dynamical properties of compact groups of galaxies*. University of British Columbia, 7-Aug-1992.
- Hutchings, J.B., *[O II] and continuum structure in radio-loud QSOs to $Z=0.9$* . Dominion Astrophysical Observatory, 7-Jul-1992.
- Irwin, J.A., Sofue, Y., *Outflowing molecular gas in NGC 3079*. Queen's University, 14-Jul-1992.
- Joncas, G., Boulanger, F., Dewdney, P.E., *High resolution 21 cm line observation of an IR Cirrus*. Obs. Mont Mégantic, 24-Jun-1992.
- Kennelly, E., Walker, G., Merryfield, W., *[tau] Peg: a Fourier representation of line-profile variations*. University of British Columbia, 11-Aug-1992.
- Kowk, S., *Proto-planetary nebulae*. University of Calgary, 21-Aug-1992.
- Leonard, P.J.T., Hills, J.G., Dewey, R.J., *A mechanism for producing long-lived runaway stars, which become black holes*. Los Alamos Ntl. Lab., 30-Jun-1992.
- Leonard, P.J.T., Hills, J.G., Dewey, R.J., *Are some of the luminous high-latitude stars accretion-powered runaways?*. Los Alamos Ntl. Lab., 15-Jul-1992.
- Leonard, P.J.T., Dewey, R.J., *Monte Carlo simulations of the supernova ejection mechanism for the runaway stars*. Los Alamos Ntl. Lab., 15-Jul-1992.
- Leonard, P.J.T., *Mechanisms for ejecting stars from the galactic plane*. Los Alamos Ntl. Lab., 15-Jul-1992.
- Leonard, P.J.T., Richer, H.B., Fahlman, G.G., *Dynamical mass estimates in M13*. Los Alamos Ntl. Lab., 11-Aug-1992.
- Lesch, H., Reich, W., *The origin of monoenergetic electrons in the arc of the galactic center*. David Dunlap Observatory, University of Toronto, 9-Jul-1992.
- Lopez-Cruz, O., Garrison, R.F., *A spectroscopic study of high galactic latitude F supergiant stars*. David Dunlap Observatory, University of Toronto, 11-Aug-1992.
- Madore, B.F., *Bolometric Hubble types for galaxies*. IRAS, 9-Jul-1992.
- Madore, B.F., *Galaxies and the universe. General information and integral properties of galaxies*. IRAS, 9-Jul-1992.
- Malaney, R.A., *Cosmology and the search for a beryllium plateau*. Canadian Institute for Theoretical Astrophysics, 26-Aug-1992.
- Malaney, R.A., *Primordial nucleosynthesis and beryllium*. Canadian Institute for Theoretical Astrophysics, 26-Aug-1992.
- Percy, J.R., *Photoelectric and visual observations of X Persei*. David Dunlap Observatory, University of Toronto, 19-Jun-1992.
- Percy, J.R., Attard, A., *Photoelectric monitoring of bright Be stars. II. 1989,1990,1991*. David Dunlap Observatory, University of Toronto, 4-Aug-1992.

- Quinlan, G.D., *Round-off error in long-term orbital integrations using multistep methods*. Canadian Institute for Theoretical Astrophysics, 9-Jul-1992.
- Racine, R., Harris, W.E., *Faint halo globular clusters and the GCLF in M31*. Obs. Mont Megantic, 24-Jun-1992.
- Racine, R., *Continuum and CIII] microlensing in Q2237+0305 and the quasar geometry*. Obs. Mont Megantic, 24-Jun-1992.
- Rice, J.B., Wehlau, W.H., *The range of abundances of iron, chromium, and silicon over the surfaces of the CP stars epsilon Ursae Majoris and theta Aurigae*. University of Brandon, 17-Jun-1992.
- Roy, J.-R., *Wide-field spectroscopy of nearby galaxies*. Obs. Mont Megantic, 17-Jun-1992.
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