

Mr. Chris Rutkowski
P.O. Box 1918
Winnipeg, Manitoba
R3C 3R2

W
I
E
E
N
I
-
C
e
M
T
R
I
C
S
newsletter of the

ROYAL ASTRONOMICAL SOCIETY OF CANADA
WINNIPEG CENTRE

Winnipeg

MANITOBA
CANADA

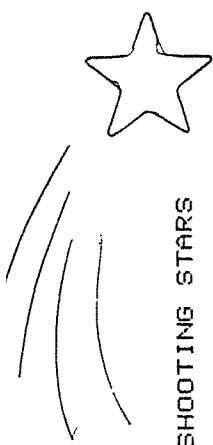
1987/88 COUNCIL

- President - Mr. John Haines
- 1st Vice President - Mr. Lorence Miodzinski
- 2nd Vice President - Mr. Chris Rutkowski
- Treasurer - Mr. Chris Brown
- Secretary - Ms. Myra Banman
- Councillors
 - Mr. Len Gamache
 - Mr. Gord Mathews
 - Mr. Andrew Lawless
 - Mr. Paul Paradis
 - Mr. Stan Runge
 - Mr. Bud Fairley

Appointed Positions

- Librarian - Mr. Chris Rutkowski
(475-4181)
- National Representative - Mr. Lorence Miodzinski
- Observatory Director - Mr. Lorence Miodzinski
(668-3974)
- Winnicentrics Editor - Ms. Myra Banman

* Please send Winnicentrics articles to: #16-825 Corydon Ave., Wpg., R3M 0W6



SHOOTING STARS

Info is starting to come in about the 1988 G.A. in Victoria...time to start thinking about displays, and papers, and song contests....

Edmonton R.A.S.C. is hosting their 2nd Annual Alberta Star Party, Aug. 19-21, in Dinosaur Provincial Park. A few extras will be a talk on "The Death of the Dinosaurs", guided tours of the Dinosaur Bone Beds, a Bar-B-Que steak dinner, and lots more!! Sounds like a good way to spend the family vacation. If you want more details, contact me at 475-4181, or the Edmonton Centre.

National Office has received some astronomical software which contains data concerning times of astronomical events, solar system data, information on 2000 deep-sky objects, astrophotography data, etc. "User-supported software available on 2-sided 5 1/4 inch diskettes for IBM and true compatibles". If you're interested, contact me or National Office.

There are rumours that those proverbial wedding bells will be ringing for someone in the Winnipeg Centre...stay tuned for all the gossip!

629.4 F811

(E. Hiady)

Freeman, M.

Space Traveller's Handbook

925.2067 Pel

(G. Westcott)

Peltier, L.

Starlight Nights

If you have these or any other books, please return them immediately, or call the Librarian at 475-4181 if you want to fink on anybody. Failure to return the books will result in a suspension of Library privileges, nasty phone calls, income tax audit, permanent placement on a Book-of-the-Month Club mailing list, banana cream pie in the face, bamboo shoots shoved under your fingernails and your being placed on the Winnipeg Centre Council. If that doesn't work, then we'll get tough with you!!

REMINDER: The Library will be open for use before and following the meeting. Everyone is welcome to come and see our newest facility! (If you have any books that are overdue, or any books that you somehow just happened to find in your basement, please bring them...or face the evil Librarian!!!)

taking on a new image, and hopefully, with it, a new life. There were a lot of articles for this issue - thanks to all contributors!!

The Winnipeg Centre Library is now open in Rm. 110, St. Paul's College. Special appreciation goes to Chris Rutkowski, John Haines, Lorence Miodzinski, Stan Runge, Ed Hiady, and Paul Paradis for helping to move the books from Glenlea. Also an extra special thank-you to Chris and John who painted the Library on a beautiful warm Saturday, when they could have been sleeping in!!

*STAR PARTIES

Saturday, March 26

Friday, April 22

Saturday, May 21

Saturday, June 4

*The June 10 regular meeting will be replaced by the Annual Bar-B-Que, to be held at Glenlea.

*ASTRONOMY DAY - APRIL 23
Stay tuned for more info...

1988 OBSERVER'S HANDBOOK

A few people have not picked up their handbooks yet. They are available at every meeting. If you do not attend the meetings, please call Chris Brown @ 775-6392 to arrange to get yours.

PHOTOMETRY GROUP

Anyone interested in joining the group studying variable stars or just wanting to know more about it can call Chris Brown @ 775-6392 or Len Gamache @ 453-4684 for more information.

VISIT TO THE CALGARY CENTRE

I had the chance to visit the Calgary Centre last month and was surprised at how similar it is to our centre. (And here I thought we were unique!)

Don Hladiuk and Bill Krosney, both ex-Winnipeggers, hosted a visit to their observatory and to their annual (election) meeting.

The observatory is situated a few miles south of the city, and so suffers about the same light pollution as ours does. They have a 12 inch f8 Newtonian housed under an Ash dome and a warm room complete with bunk beds and a chemical toilet INSIDE! Hardly the pioneer spirit. And they even get to play ping pong in the basement to warm up on cold nights.

The drudgery of an annual meeting was lightened by a lot of good natured banter between the 35 members who attended, with Jim Himer being elected president and Don Hladiuk vice-president.

I received a copy of their constitution which will be a great help to us as we write ours. Jim Himer also gave us a number of good articles on fighting light pollution which are in our library for those who wish to join the fight.



The following books are signed out and overdue:

001.642 P DEC POPII Peripheral Handbook	(B. Bulloch)
001.642 P1 DEC RT-11 Read-Me-First Kit	(B. Bulloch)
001.642 PR DEC RT-11 for Beginners & Index	(B. Bulloch)
001.642 PM DEC RT-11 Mini-Ref Manual	(B. Bulloch)
522.63096 N Newton, Jack Deep Sky Objects	(?)
523.11 S36 Sullivan, W. Black Holes	(L. Fedori)
523.112 Sh Gal Shapley, H. Galaxies	(M. Maksymyk)
523.2015 Wi Whipple, Fred Earth, Moon and Planets	(?)
523.4 J10 Jackson, H. Pictorial Guide to the Planets	(E. Hlady)
523.6 M8115 Moore, P. Comets	(G. Westcott)
535.8270 H Habell, K. Engineering Optics	(F. Ediger)



The following books are missing from the Library:

- 001.9 Von Acc Von Daniken, E.
"According to the Evidence"
- 501.276 J Jeans, Sir James
"The Mysterious Universe"
- 502.162 RM Roddenberry, G. et al
"The Making of Star Trek"
- 522.2022 T Texereau, Jean
"How to Make A Telescope"
- 522.2272 B Brown, Sam
"All About Telescopes"
- 523.11 Sh B1 Shipman, Harry
"Black Holes, Quasars and the Universe"
- 523.18130 RL Landau, L. et al
"What is Relativity?"
- 523.45 Hm Ju Hunt, G. & Moore, P.
"Jupiter"
- 523.866 M44 Meadows, A.J.
"Stellar Evolution"
- 575.99 R9 Ridpath, I.
"Messages from the Stars"
- 925.2057 W Willard, Berton
"Russell W. Porter: Arctic Explorer, Artist, Telescope Maker"

night at the observatory. Fixing a night each month helps more members get out regularly and gives beginners the steady support they need. It's something we may want to start here.

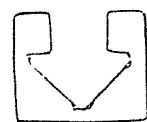
Don Hladiuk will be in Winnipeg for our March meeting to talk on the discovery of a buried crater in Alberta. I look forward to returning Calgary's warm hospitality and the continuing contact between our two centres.

- Chris Brown

ATTENTION TM'S

A request goes out to telescope makers across the RASC for information and assistance. I am considering construction of a 2 mirror unobstructed reflector, specifically the design of Anto Kutter's 2 mirror schiefspiegler (Sky & Telescope October '61, Telescope Making magazine issues #1 and #4). A Sky and Telescope Gleanings bulletin, GLEANINGS BULLETIN, detailed the theory behind Kutter's design. Can anyone assist me in obtaining a copy of this now out-of-print bulletin? I would also be interested in corresponding with fellow amateurs who have had experience with either 2 or 3 mirror schiefspiegler 'scopes.

Bill Kroesney
42 Sunhaven Place S.E.
Calgary, AB
T2X 2X6



SOME GOOD WORDS FROM A DISTANT FRIEND

Paul Delaney (our former member from Pinawa) and his wife Lynne wrote recently to announce the birth of their second child ANDREW RYAN on October 10, 1987 (tipping the scales at 8 lbs.). They are living on an old farmstead in Nobleton, Ontario, just north of Toronto.

Paul works for York University, with an enrollment of 40,000 students. His position is loosely described as an Observatory Technician, and he maintains two telescopes for research and educational purposes. When he joined the university, the half million dollar facility was in a state of disuse and disrepair. He reports that the facility of now fairly well utilized, with students using the telescope, a very active public viewing program, some actual telescope oriented laboratory exercises and some ongoing research.

Paul was recently asked if he would like to be a Course Director for a first year Astronomy course (for 500 students)...which he accepted and has been teaching the class since September. With the success of a public viewing program, he has been interviewed on radio and television about his job and the observatory.

I am certain that all of our members wish him success, and the permanent assignment to his position when it is reviewed in August 1988. GOOD LUCK Paul and Lynne!

- Stan Runge

the floor. Because the room is expected to flood as usual in the spring, we will have to raise it up somehow. The ultimate solution to the problem, namely the sealing of the window and wall, will have to be done within two months, and I am awaiting the Council's actions on this.

I have placed all other Centre's newsletters in separate boxes, and new ones will be added to the proper boxes as received. We appear to have a complete collection of Sky & Tel dating back to the mid 1950's, though many issues from the 1980's are missing. We do have a complete collection of the RASC Journal since its first publication in the 1900's, as well as earlier volumes of the Astronomical Society of Toronto from the 1890's. Some of the leather-bound volumes are in desperate need of repair, and we may need to ask Council for the money to preserve them from further deterioration.

The Library still needs lots of work, but it's getting there. It is certainly much more accessible than at Glenlea, and I have received some positive responses regarding its new location. We will be trying to get new (i.e. current) books on astronomy, though donations won't be turned down. However, we probably don't have the space for piles of old issues of scientific journals such as Icarus, Astronomical Journal or DAO offprints. The use of some of these would be limited, and besides, they are available on campus anyway to the serious researcher. We COULD use recent Sky & Tel, Astronomy, books on photometry, spectroscopy, telescope building, radio astronomy, or general books on popular astronomy. We do NOT need any old Physics textbooks, books about flying saucers or science fiction novels. So there.

As those of you who were at the February meeting are aware, the Library is now open for business after every general meeting. As well, urgent requests for books can be accommodated by contacting me (Chris Rutkowski) at 475-4181 or the Winnipeg Centre President, John Haines, at 275-0376.

The library is currently in order according to the card catalogue, although that may not necessarily help you in finding any specific books. All books that I have added to the library since about 1982 have been given a call number based on the Dewey Classification System. Unfortunately, the rest of the books of the library were catalogued by previous librarians using non-standard Dewey rules, resulting in several copies of the same book being given different call numbers, and hence being filed in different locations. What this means is that, for example, all the books on telescopes are not grouped together in the same section, but may be mixed up with other subjects. I will try and recatalogue the collection eventually, but in the meantime, I've tried to make the system as easy to use as possible.

In this issue you will find lists of outstanding or missing books. Please bring them back for inventory and so they can be borrowed by other members.

I am preparing a complete list of books in the Library, but that will take some time yet. There are still a large number of books and pamphlets that are awaiting cataloguing, and I am getting to those as soon as I can. The bookcase housing the bulk of our collection is currently resting on

R.A.S.C. MARCH GENERAL MEETING

Date: Friday, March 11, 1988

Time: 8:00 P.m.

Where: Theatre 100, St. Paul's College
The University of Manitoba

GUEST SPEAKER: Don Hladiuk, Calgary Centre (and former Winnipeg member). Don will present an up-dated version of the talk he gave at the 1987 G.A. in Toronto.

Don's talk is on the Steen River Astrobleme, which is interpreted to be a complex hypervelocity crater located in northwestern Alberta. The crater was originally discovered in 1963 during exploratory drilling of a geophysical anomaly.

Come out and see what happens when a crater hits Earth; come out and say hi to a visiting member!

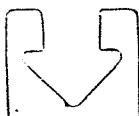
R.A.S.C. APRIL GENERAL MEETING

Date: Friday, April 8, 1988

Time: 8:00 P.m.

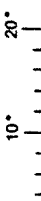
Where: Theatre 100, St. Paul's College
The University of Manitoba

Speaker: T.B.A. at the March meeting



© ABRAMS PLANETARIUM SKY CALENDAR · MARCH 1988

Use this scale to measure angular distances between objects on diagrams below.



CURRENT SKY INFORMATION:
Call (517) 332-STAR

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
<p>North is up.</p> <p>Circular field is 3° across.</p> <p>λ Sgr to Saturn about 5°.</p> <p>λ Sgr (Lambda Sagittarii, mag 2.8) = top star of Teapot</p> <p>11 Sgr . . . 4 Sgr</p> <p>• Saturn</p> <p>• Uranus</p> <p>• 7 Sgr</p> <p>Monday, March 6, 3½ hours after sunset:</p> <p>Spica • ESE</p> <p>Moon ○</p> <p>Sunday evening: Face west. Telescope shows Venus 60% full this week.</p> <p>Venus ★</p> <p>Jupiter ★</p> <p>Planets 8° apart.</p>	<p>• 4 Sgr (Mu Sagittarii, mag 3.9)</p> <p>Uranus finder March 13-28, 1½ hours before sunup. Stars shown to mag 6.0. More under Uranus in left margin.</p> <p>• Jupiter</p> <p>Venus ★</p> <p>Planets 4° apart, well up in WSW to W.</p> <p>Tuesday, March 7</p> <p>• Spica</p> <p>Moon ○</p> <p>Morning (mid-twilight)</p> <p>SW</p> <p>Monday morning:</p> <p>Mercury</p> <p>• ESE</p> <p>Moon</p> <p>Aldebaran</p> <p>Hyades</p> <p>Pleiades</p> <p>Moon</p> <p>Venus ★</p> <p>Monday, March 28, evening:</p> <p>Moon ○</p> <p>• Regulus</p> <p>High in ESE</p>	<p>Tues Mar 1 Evening (mid-twilight): Regulus • (also in evening twilight)</p> <p>* Jupiter</p> <p>Venus ★</p> <p>Planets 4° apart, well up in WSW to W.</p> <p>Evening: Thurs morning's eclipse won't be seen from 48 states; contiguous moon already set.</p> <p>• Saturn</p> <p>Mars •</p> <p>TEAPOT</p> <p>SE</p> <p>Mercury</p> <p>• ESE</p> <p>Moon</p> <p>Aldebaran</p> <p>Hyades</p> <p>Pleiades</p> <p>Moon</p> <p>Venus ★</p> <p>Monday, March 28, evening:</p> <p>Moon ○</p> <p>• Regulus</p> <p>High in ESE</p>	<p>Evening: Thurs morning's eclipse won't be seen from 48 states; contiguous moon already set.</p> <p>• Saturn</p> <p>Mars •</p> <p>TEAPOT</p> <p>SE</p> <p>Mercury</p> <p>• ESE</p> <p>Moon</p> <p>Aldebaran</p> <p>Hyades</p> <p>Pleiades</p> <p>Moon</p> <p>Venus ★</p> <p>Monday, March 28, evening:</p> <p>Moon ○</p> <p>• Regulus</p> <p>High in ESE</p>	<p>Very slight umbral or deep penumbral lunar eclipse, 6:13 a.m. Hawaii Time; slight shading on Moon's S limb.</p> <p>Moon ○</p> <p>Full</p> <p>Thursday and Friday mornings, March 10 & 11:</p> <p>• Saturn</p> <p>Mars •</p> <p>TEAPOT</p> <p>SSE</p> <p>New Moon 9:02 p.m. EST (6:02 p.m. PST).</p> <p>Total solar eclipse track crosses Sumatra, Borneo, Mindanao (Philippines) on March 18 local date. Partial in Alaska late afternoon March 17.</p> <p>• Venus</p> <p>Jupiter</p> <p>Calculate Moon's age when you first spot it. Begin ¼ hr after sunset.</p> <p>Evening: Planets 23° apart. Watch motion of Venus past the Pleiades next few evenings.</p>	<p>Evening WSW to W.</p> <p>Jupiter ★ ★ Venus</p> <p>Venus-Jupiter just over 2° apart tonight and tomorrow night; visible for 3½ hours after sunset.</p> <p>Antares ○</p> <p>Moon, Thursday March 10</p> <p>at Last Quarter, Friday March 11. Moon is southernmost Mar 11 & 12.</p> <p>S</p> <p>Evening: • Venus</p> <p>• Jupiter</p> <p>Calculate Moon's age when you first spot it. Begin ¼ hr after sunset.</p> <p>Evening: Castor • Pollux • Moon ○</p> <p>Gemini twins high in SSE.</p> <p>Evening Planets: Venus, Jupiter, Morning: Saturn, Mars, Mercury. Magnitudes: Venus -4.2 to -4.3; Jupiter -2.1; Saturn +0.5; Mars +1.1 to +0.7; Mercury (March 1-23) +0.3 to +0.1; Uranus 5.7 to 5.6; Vesta 7 to 7½; Neptune 8.</p>	<p>Evening: Jupiter ★ ★ Venus</p> <p>Planets closest tonight as Venus passes 2.2° N of Jupiter.</p> <p>Saturday and Sunday mornings, March 12 & 13:</p> <p>• Saturn</p> <p>Moon, Saturday March 12</p> <p>Mars •</p> <p>Moon, Sunday March 13</p> <p>TEAPOT</p> <p>SSE</p> <p>Evening: • Venus</p> <p>• Jupiter</p> <p>Moon (note beautiful earthshine on dark side)</p> <p>Evening: Castor • Pollux • Moon ○</p> <p>Gemini twins high in SSE.</p> <p>Evening Planets: Venus, Jupiter, Morning: Saturn, Mars, Mercury. Magnitudes: Venus -4.2 to -4.3; Jupiter -2.1; Saturn +0.5; Mars +1.1 to +0.7; Mercury (March 1-23) +0.3 to +0.1; Uranus 5.7 to 5.6; Vesta 7 to 7½; Neptune 8.</p>

Motions of Sun and Planets in March: Sun goes 31° E, crossing from Aquarius into Pisces March 11. Evening: Venus goes 33° E, from Pisces through Arles into Taurus. Venus passes 2.2° N of Jupiter March 5, 8° S of Alpha Ari March 12, and pulls within 3° of Pleiades at month's end. Jupiter goes 7° E, from Pisces into Aries. See calendar for changing configuration of Venus-Jupiter. Vesta, visible in binoculars, ends retrograde March 10. For several days, Vesta lingers 1.8° S of Pollux, or about midway between Pollux and 3.6-mag Kappa Gem. See Vesta finder in Jan *Sky & Telescope*. Note 5.3-mag star 76 Gem about 2/5 of the way from Kappa to Pollux, and 7.4-mag star 0.4° NE of 76. Don't confuse Vesta with the 7.4-mag star, on March 10, Vesta stands 0.2° N of it.

Morning: Saturn goes 1.3° E in Sagittarius, ending month 5° NW of 3rd-mag Lambda Sgr, top of Teapot. Mars on March 1 is within 4½° E of Saturn. Going 21° E in Sgr, Mars passes 2° N of Lambda on March 2, and 3° N of 2nd-mag Sigma in Teapot's handle on March 11. See March 8-12, 27. Uranus goes 0.5° E in Sgr. Because Saturn is moving faster, the distance Saturn to Uranus increases, from 1.5° to 1.9°. Larger scale Uranus finder at top left of calendar is plotted for midmonth and shows them 1¾° apart. Mercury, seen from lat 40° N, rises ahead of Sun by 1 hr 10 min on Mar 1, 1 hr on Mar 13, and only 45 min on Mar 22. From southern states, Mercury rises earlier in darker sky and is easier; see March 8.