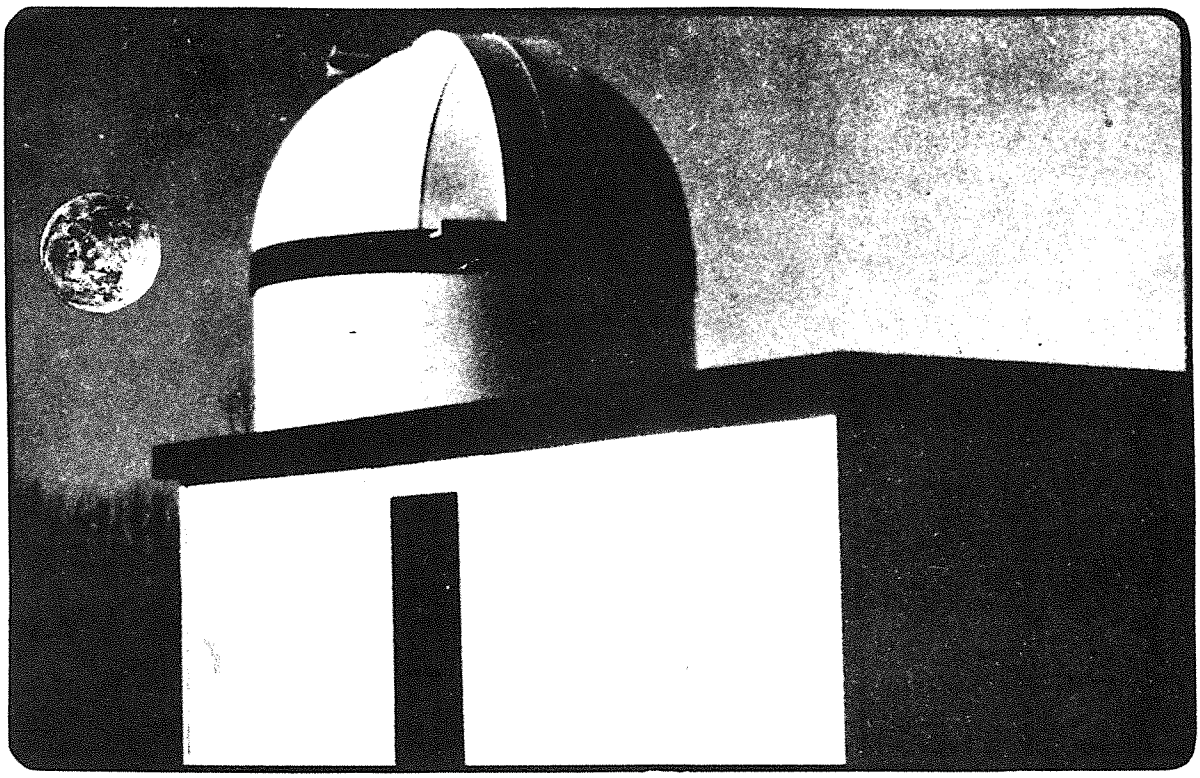

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SKY NOTES

JUNE 1983

12 Evening: Venus, Pollux, Castor. Telescope shows Beehive cluster just south of Venus. Moon. WNW

13 Evening: Venus, Moon, Pollux, Castor. Also tonight: Jupiter and Beta in Scorpius are just 1° apart. WNW

14 Evening: Regulus. Moon in west.

June 21, evening: Moon, Beta, Jupiter, Antares. Binoculars help you see Beta June 21-23. It is 13' above Jupiter tonight. See June 15. SSE

15 Evening: Moon, Regulus. Note double at bend of Big Dipper's handle. Its stars are ¼ degree or 12'(arc minutes) apart. Compare nightly with Jupiter & Beta.

Evening: Beta, Jupiter, Moon, Antares. Jupiter and Beta closest, 10' apart. Glare of Moon and Jupiter might prevent seeing star with unaided eye. SSE

16 Venus at greatest elongation, 45° to east (upper left) of setting Sun. Telescopes show planet's current "half moon" phase.

Evening: Beta, Jupiter, Moon, Antares. Beta 11° from Jupiter. Can you see the star with unaided eye? SSE

17 Moon at First Quarter, 90° (¼ circle) east of Sun in afternoon and evening sky. Against background stars tonight, Moon is 5° north of equinox where Sun will appear on September 23.

18 Evening: Moon in SSW, Saturn, Spica.

19 Evening: Moon, Saturn, Spica. Watch Moon drift past Saturn tonight.

20 Evening: Moon in south, Saturn, Spica. Summer begins tomorrow.

June 24 Friday night: Southernmost Full Moon of year, above horizon all night. Eclipse late tonight. On diagram at right, subtract 3 hours for PDT, 2 for MDT, and 1 for CDT. From northeast U.S. and nearby Canada, Moon sets before eclipse ends.

Partial Eclipse of the Moon Saturday morning, June 25
Moon enters shadow, 3:14 a.m.
Greatest eclipse (½ covered) 4:22 a.m.
Moon leaves shadow, 5:30 a.m.
All times EDT

26 Morning: Don't except to see Mercury. Pleiades, Aldebaran, Mercury, ENE

June 27, Monday evening: When will Venus appear closest to Regulus? Find out by observation and from July *Sky Calendar*. Regulus, Can you still see Pollux and Castor?, Pollux, Castor, W, WNW, NW

Evening: Beta – Jup 29. Antares. Now that Jupiter has moved 0.7° to its west, Beta in Scorpius is an easy target for the unaided eye.

30 Evening: Regulus, Venus. Watch Venus move closer to Regulus each night! W

Moon occults Mercury, morning of June 9; difficult, low in bright twilight or in daylight.
New England: Mercury rises close to Moon's lower left and is covered soon after, around 4:30 a.m. EDT.
Michigan to mid-Atlantic coast: Mercury behind Moon at moonrise, then emerges from behind Moon's dark limb before sunup. **Farther west:** Rising Moon is already to lower left of Mercury; no occultation.

JULY 1983

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY

NOTE: Partial Lunar Eclipse Sat. Morning June 25th.
Occultation - Moon occults Beta Scorpii,
Tuesday July 19th. Visible from Winnipeg.

1 Evening: Saturn ends retrograde, begins moving away from Spica. Saturn in SSW, Spica. Saturn and Spica 6° apart.

2 Evening: Regulus, Venus. Watch Venus pass Regulus next week. W, WNW

3 Moon at Last Quarter, 90° (¼ circle) west of Sun in morning sky. Look before and after sunrise. Note shape is *half* full.

4 Evening: Regulus, Venus. W, WNW

5 Evening: Beta, Jupiter, Antares. SSE, S

Thursday, Friday, and Saturday mornings, July 7-9: Pleiades, Moon Thursday 7, Hyades, Aldebaran, Moon Fri 8, Old Moon, Sat 9, ENE

6 Evening: Regulus, Venus. W, WNW

8 Evening: Regulus, Venus. Venus & Regulus closest, 0.6° apart. W, WNW

9 Evening: Venus & Regulus still 0.7° apart. Regulus, Venus. W, WNW

10 New Moon 8:18 a.m. EDT (5:18 a.m. PDT). Today is only date this month Moon can't be seen. At perigee tomorrow, Moon moves swiftly east of the Sun into the evening sky.

11 Evening: Moon's age 37 hours from East Coast, 40 hours from West. Venus, Regulus, Young Moon in WNW. W

12 Evening: A beautiful gathering! Look how far the Moon has gone since last night! Venus, Moon, Regulus. W, WNW

13 Evening: Moon, Venus, Regulus. W

14 Binoculars may show all 4 bright moons of Jupiter tonight. Each moon is near its *greatest elongation*, or maximum angular distance from Jupiter.

15 Evening: Venus, Regulus. W

16 Moon at First Quarter, 90° east of Sun. Saturn, Moon in SW, Spica.

17 Evening: Moon in SSW, Saturn, Spica.

18 Late tomorrow afternoon, Moon passes closely N of Jupiter; use telescope to see Jupiter in daylight, as well as occultation of Beta Sco in evening.

Tues 19, evening: Beta, Jup, Antares.

Wed 20, evening: Beta, Jup, Moon, Antares.

Moon occults Beta Scorpii: Along a line from S Utah to Gulf Coast of Texas, lower limb of Moon touches star in early evening. NE of this graze line, Moon covers star. From Denver to Winnipeg, Moon's dark limb covers star around sunset, then star emerges at bright limb about an hour later. Farther east, event occurs later, in dark sky. From East Coast, star is covered about 3 hours after sunset. Disappearance times: EDT — Boston 11:10 pm; Washington DC 11:06 pm; Miami 11:33 pm; E. Lansing 10:47 pm. CDT — Chicago 9:43 pm; Kansas City 9:36 pm; Austin 9:56 pm.

21 Venus and Regulus are higher and easier to see from southern states. July 25, 28, 31 show views from two different latitudes.

22 Evening: Venus, Regulus. W, WNW

23 Morning: Hyades, Aldebaran. Orion returns! Betelgeuse, ORION, Rigel, E

24 Full Moon, 180° from Sun, is above horizon all night.

25 Evening: Lat. 40° N. Venus, Regulus, W, WNW, Mercury.

26 Evening: Lat. 40° N. W, Venus, Mercury, Regulus, WNW

27 Can you see Mars yet? Try each morning with binoculars. Wed 27, morning: Betelgeuse, ORION, Castor, Mars, Pollux, ENE, Rigel

28 Evening: Lat. 40° N. Venus, Regulus, W, Mercury, WNW

29 Evening: Beta, Jupiter, Antares. Jupiter ends retrograde 10° NW of Antares and 2° W of Beta. Watch Jupiter approach these stars in coming weeks. See Sept & Oct *Sky Calendar*. S

30 Morning: Castor, Mars, Pollux, ENE

31 Evening: 0.4° apart. Lat. 30°N. Venus, Mercury, W, Regulus, WNW

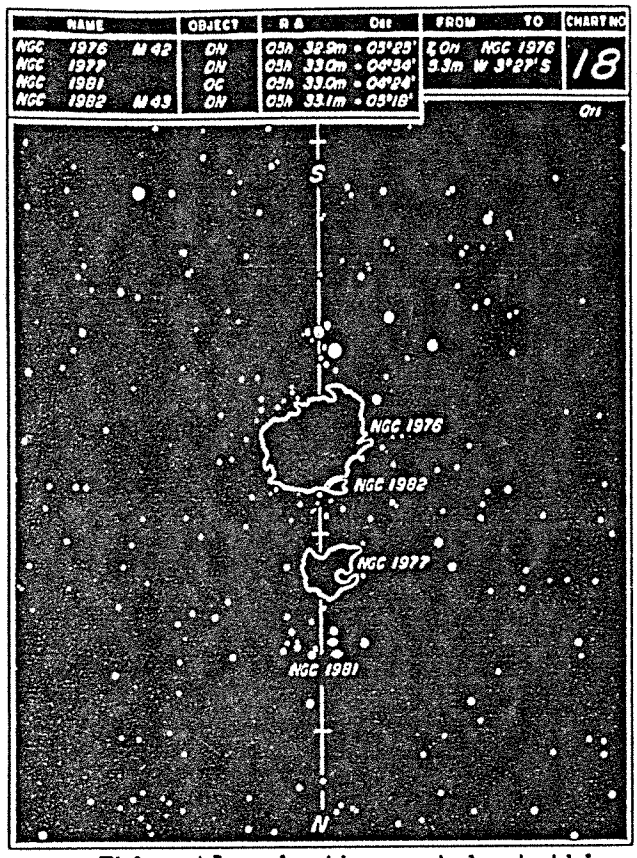
Evening: Lat. 30°N. Venus, Regulus, W, Mercury, WNW

Evening: Lat. 30°N. Venus, Regulus, W, Mercury, WNW

Abrams Planetarium, Michigan State University, East Lansing, Michigan 48824

BOOK REVIEWS

SARNA DEEP-SKY ATLAS



This atlas is the next best thing to having an experienced observer help you find and identify deep-sky objects. The atlas contains all 109 Messier and 145 other interesting nearby objects for a total of 115 galaxies, 41 globular clusters, 25 planetary nebulae, 56 open clusters and 17 diffuse nebulae. They are all identified by NGC and Messier numbers. Unlike most atlases which show how to find the object by R.A. and DEC. this one gives simple, easy to follow directions for aiming a telescope at the exact area of sky, then by using bright, easy to locate stars, it guides you to the object. Each chart is an accurate closeup of the area around the object with the faint stars removed. You can then match what you see at the eyepiece with each chart.

Thomas Sarna, a professional draftsman and avid observer, worked for over four years to produce this excellent atlas. It comes complete with an all sky chart plus users guide. Replacement cards can also be obtained for 50¢ each. To order write to SARNA & ASSOCIATES, 7133 BLACKBURN DOWNERS GROVE, IL. 60516.
Cost $30 + $2 shipping U.S.

EIGHT WAYS TO MUFF A VARIABLE STAR ESTIMATE. By David H. Levy
Spring 1983 (Deep Sky)

CLOUDS: Not the nice kind that cover the whole sky, because those will simply keep you indoors - I mean those little scattered clouds that seem to park themselves in front of all your favorite variables. And, in accordance with some supreme law, just as you pack up to go indoors, the clouds thin out and disappear.
WIND: A windy evening can be even more devastating than clouds. Having set up your scope you stand there, battling the breeze to keep it on its mounting. Gusts of wind bring tears to your eyes and while blinking furiously to clear them, you hunker down closer to the eyepiece - which promptly fogs up.
POLICE: You are desperate to observe R CrB before it sets over the house across the way. With one hand focusing the eyepiece and the other clutching a note pad, you make your estimate just as the boys in blue arrive to check out a "Peeping Tom" complaint.
SHEER BRAINLESSNESS: You and your telescope have just arrived at a dark-sky site 37 miles up a dirt road. You unpack and discover that you left the carry-box of eyepieces at home.
THE NEIGHBORS: Your carefully planned observing session degrades into a guided sky-tour for all the neighbors' kids, who, having scented "neat stuff" from a block away, descend in droves on your doorstep. (N.B., this is especially prevalent in campgrounds.)
THE CAT: One night I was looking at some faint variables in Orion when all of a sudden the field of view and the telescope simply disappeared. The top of the tube was pointing to the ground - the #%$&! cat had jumped up for a look.
LIGHTS: The night your neighbor has his college reunion party with 200 people and 16 specially-installed flood lights will be the same night that you miss a long-awaited outburst of SS Cygni.
LITTLE KIDS: In the spirit of purest good will, you let your 4-year-old nephew Jason examine your telescope. Later that evening as you go to observe R Leonis, the gummy feel of the eyepiece tells just how enthralled he was with the experience.

COMET NEWS

NEW COMET SUANO-SAIZUSA-FUJIKAWA.

Two Earth-grazing comets in one month! What more could astronomers wish for. After the bright but brief passage of newly discovered Comet IRAS-Araki-Alcock in May, 1983, we will have a repeat performance in June. Comet IRAS passed only 2.9 million miles from Earth on May 11 and reached magnitude 2-3. See photo to the right. 15 minute exposure on Kodak VR1000, with a 400mm. f6 lens.

The second newly discovered Comet Suano-Saizusa-Fujikawa will pass only 6 million miles from Earth on Saturday night June 11/12, 1983, and will attain magnitude 4.8. It will be found in Delphinus on June 11/12 and Lupus on June 17. Finder chart below from Sky Atlas 2000 and Ephemeris to the right are only approx. to about one degree.

As of going to print, I have just learned that IRAS has detected another faint comet. Details will be phoned out to members as they become available.

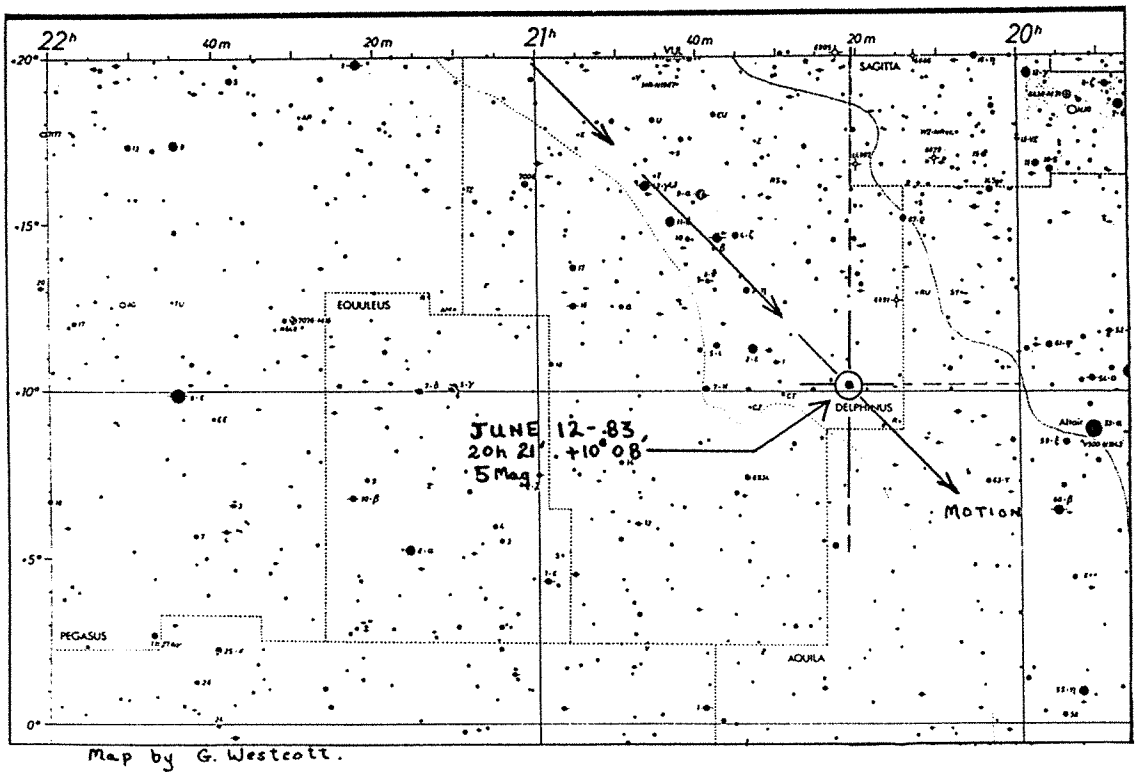
COMET IRAS-ARAKI-ALCOCK
Photo by Guy Westcott.

Discoveries & Recoveries

1983f COMET IRAS. J. Davies, University of Leicester, announced May 20 (IAUC 3814) that the Infrared Astronomical Satellite (IRAS) has detected another faint object which appears to be a comet. The object is quite faint, and at press time, an orbit has not been computed.

EPHEMERIS
COMET SUANO-SAIZUSA-FUJIKAWA.

JUNE	R.A.	DEC.	Mag.
11	21h 33.42m	+23° 55.1'	5.2
12	20 28.58	+11 46.1	5
13	19 10.11	- 5 30.8	4.8
14	17 53.47	-20 59.5	5.4
15	16 52.33	-30 16.2	5.7
16	16 08.41	-35 05.3	6.2
17	15 34.25	-37 56.4	6.9



Map by G. Westcott.

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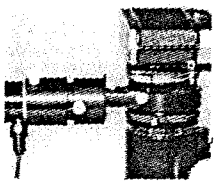

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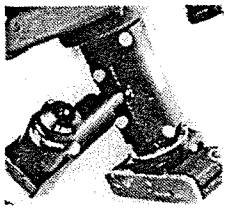

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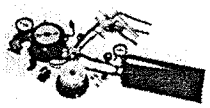

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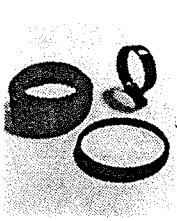

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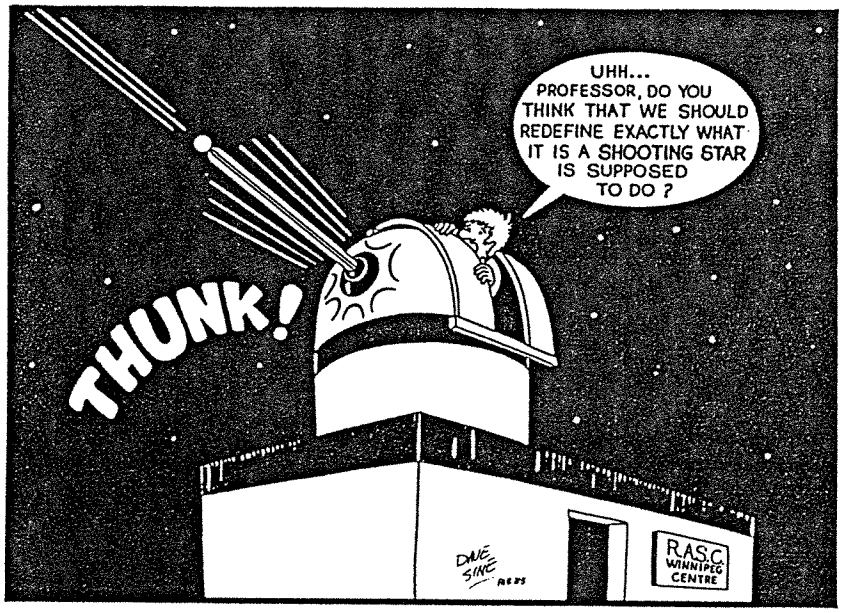
LANGUAGE.

SINE



****NOMINATIONS COMMITTEE****

AT THE BOTTOM OF THIS PAGE IS PRINTED A FORM KNOWN AS A NOMINATION FORM, IT WOULD BE APPRECIATED IF ALL THOSE MEMBERS WHO WISH TO TAKE A BIGGER PART IN THE RUNNING OF THE AFFAIRS OF THE WINNIPEG CENTRE WOULD FILL OUT ONE OF THESE FORMS AND RETURN IT TO THE CENTRE ADDRESS BEFORE THE 15th OF AUGUST 1983.
ANY MEMBER OF THE WINNIPEG CENTRE MAY BE NOMINATED PROVIDING THAT:

(a) NOMINEES FOR COUNCIL SHALL HAVE BEEN MEMBERS OF THE CENTRE IN GOOD STANDING FOR A PERIOD OF ONE YEAR PRIOR TO THEIR NOMINATION.
(b) NOMINEES FOR THE EXECUTIVE SHALL HAVE BEEN MEMBERS OF THE CENTRE IN GOOD STANDING FOR A PERIOD OF TWO YEARS PRIOR TO THEIR NOMINATION; AND WHEREVER POSSIBLE, SHALL BE DRAWN FROM THE COUNCIL OF THE CENTRE.

THE SLATE OF CANDIDATES WILL BE DRAWN UP AND PUBLISHED IN THE SEPT/OCT ISSUE OF WINNICENTRICS ALONG WITH A BALLOT FORM THIS FORM MUST BE SEALED IN THE ENVELOPE SUPPLIED AND EITHER MAILED BACK TO THE CENTRE ADDRESS BEFORE THE OCTOBER MEETING, OR HANDED IN AT THE MEETING TO THE NOMINATION COMMITTEE CHAIRPERSON, THE BALLOT MUST BE IN THE SPECIAL ENVELOPE SUPPLIED.

YOUR HELP IN RUNNING THE WINNIPEG CENTRE WOULD BE GREATLY APPRECIATED.

HELP IS ALSO REQUIRED TO KEEP YOUR NEWS MAGAZINE GOING. IF NO HELP IS FORTHCOMING THE SEPTEMBER / OCTOBER IS THE LAST ISSUE I SHALL BE PUBLISHING UNAIDED. WHERE ARE ALL THESE ARTICLES PEOPLE PROMISE. COME ON DO SOME VIEWING AND WRITE ABOUT IT. IF I CAN SO CAN YOU. ITS CALLED COMMUNICATION.

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CENTRE SCENE.

APRIL 15th meeting.
The meeting was attended by 23 centre members and 3 guests.
The president called the meeting to order at 8:45 p.m. and gave a brief rundown of centre events that were coming up. He then introduced the speaker for the evening Mr Bill Krosney. Bill did an excellent job of entertaining the attendees for the next hour and a half with his vast experience in astrophotography. Bill spent the next half of the night answering questions. We finally got away at about 12:30. I wonder if Bill will ever lecture again?

MAY 13th meeting.
The May meeting was held at the University of Manitoba Planetarium, 15 people were in attendance and viewed a planatarium show from Mr Chris Rutkowski.

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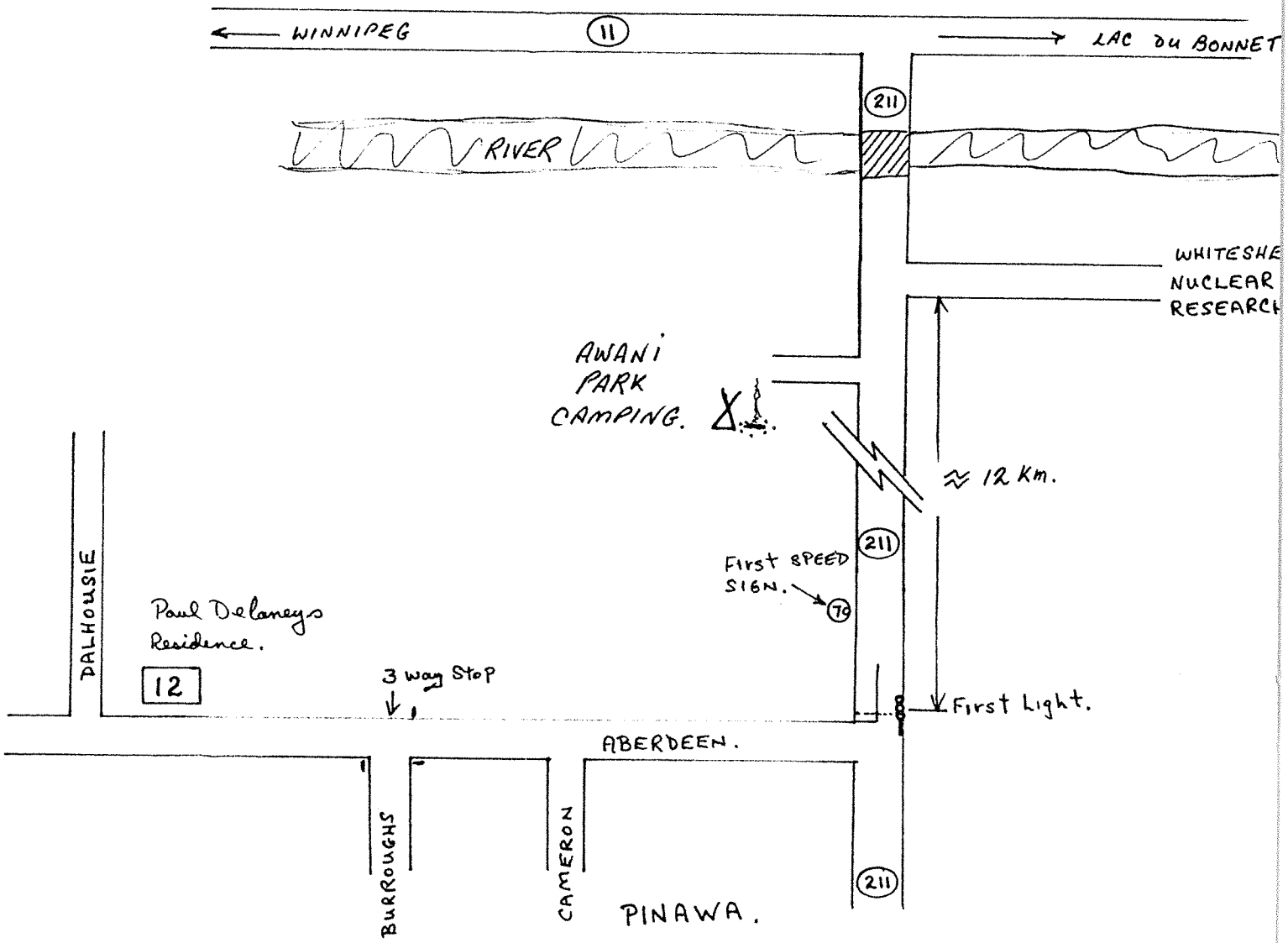
MAP FOR PINAWA STAR PARTY.



WINNIPEG

CALENDAR

The summer is upon us and for the benefit of those of you who have nothing to do this summer holiday here are a few events to help the long evenings pass pleasently.

JULY 1st. 2nd. & 3rd.

LECTURES WILL BE HELD AT RIDING MOUNTAIN NATIONAL PARK ON THE ABOVE THREE DAYS. A SCHEDULE OF EVENTS IS LISTED BELOW FOR THE INTEREST OF ANYONE WHO WISHES TO ATTEND. ALL LECTURES ARE FREE OF CHARGE AND OPEN TO THE GENERAL PUBLIC.

JULY 1st. WASAGAMING INTERPRETIVE CENTRE. LAKE KATHERINE OUTDOOR CINEMA.	MORNING: MOVIE (KITT PEAK), LECTURE - OUR STAR THE SUN, SOLAR VIEWING (WEATHER PERMITTING) WHITE LIGHT AND H-ALPHA. EVENING: MOVIE (SOUTHERN SKIES), LECTURE - THE AURORA, OBSERVING (WEATHER PERMITTING).
JULY 2nd. WASAGAMING	MORNING: MOVIE (ECLIPSE), LECTURE - THE SUN HAS SPOTS, SOLAR VIEWING (WEATHER PERMITTING) SAME AS JULY 1st.
LAKE KATHERINE	EVENING: MOVIE (KITT PEAK) LECTURE - THE STARS SURROUND US. OBSERVING (WEATHER PERMITTING).
JULY 3rd. WASAGAMING	MORNING: MOVIE (SOUTHERN SKIES & ECLIPSE) LECTURE - THE COMET HUNTERS (THE LEGEND RETURNS)
LAKE KATHERINE	EVENING: OBSERVING ONLY. (WEATHER PERMITTING)

****

OTHER EVENTS WILL BE PHONED OUT TO MEMBERS AS THEY ARE ORGANIZED THROUGHOUT THE SUMMER.

JULY STAR PARTY AT PINAWA. ASTRONOMERS IN WINNIPEG ARE INVITED TO PINAWA ON JULY 16 & 17. We will be camped at Awani Park for the weekend. On the Saturday a tour of the Whiteshell Nuclear Research fascility has been arranged. In the afternoon solar viewing will be the in thing followed in the evening by a jamboree observing session. First person to get 50 Messier objects gets a bottle of perfume. Map on location is printed overleaf.
SEE YOU THERE!

Vol 22, No. 4.

W I N N I C E N T R I C S
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1983
July/August

WINNICENTRICS is the bi-monthly publication of the Winnipeg Centre, R.A.S.C. It is compiled and printed by members and friends of the Centre. Please send all articles for inclusion in the magazine to the Centre address below. All articles for publication must meet certain standards of veracity, language, and good taste. Any length of article may be submitted, but the staff reserve the right to condense or serialize if necessary. Deadline for articles is the 20th of odd numbered months.

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