

# *Saskatoon Skies*

The Newsletter of the Saskatoon Centre  
of the Royal Astronomical Society of Canada

Volume 30, Number 10  
October 1999



A lot of the fun in doing school and Brownie presentations is the great Thank You cards the kids send afterward. This one is from Megan of the 38<sup>th</sup> Brownies, Saskatoon. Fair likeness to my scope, eh?

## RASC Calendar Happenings

Date	Event	Contact	Telephone
Oct 15 & 16	Open House & Starlight at Sleaford Observatory	Erich Keser	374-4262
Oct 18	General Meeting-Elections & Optics	Doug Miller- Erich Keser	374-4262
Oct 22	Junior Astronomers Meeting	Sandy Ferguson	931-3184
Oct 23	Next Sleaford Observatory Building Day	Darrell Chatfield	374-9278
Nov 5 or 6	Observers Group night at Sleaford	Darrell Chatfield	374-9278
Nov 15	Transit of Mercury (at sunset)	Rick Huziak	665-3392
Nov 15	General Meeting- Alister Ling (Edmonton)	Erich Keser	374-4262
Nov 17	Leonid Meteor Shower (storm?)	Rick Huziak	665-3392
Nov 19	Junior Astronomers Meeting	Sandy Ferguson	931-3184
Dec 3 or 4	Observers Group night at Sleaford	Darrell Chatfield	374-9278

## Sky Buys and Mirror Sells

### The Saskatoon Centre's Swap and Sale Page!

**For Sale:** Great astronomy books: *Introduction to Practical Astronomy* (Jones) \$10.00, *Burnham's Celestial Handbook* (hardcover, 3 vol.) \$50.00, *Peterson's Field Guide to the Stars* (softcover) \$10.00. Call Darrell Chatfield, tel. 374-9278.

**For Sale:** 1-1/4" eyepiece & filters - Kellner 9mm eyepiece \$40.00, Lumicon OIII and Light Pollution (Deep Sky). Call Darrell Chatfield for pricing and trials. tel. 374-9278.

**For Sale:** Tasco Model 11TR 4-1/2" aperture, 900 mm f.l. Newtonian telescope. Comes with 20 mm and 4 mm eyepieces, 2X barlow, moon filter, equatorial mount and tripod. Call Gerald at 244-9918.

**Wanted:** Sky Atlas 2000 Companion. Call Andrew Krochko at 955-1543.

**For Sale:** 2" Lumicon Deep Sky (Light Pollution) Filter. \$200.00 obo. Call Andrew Krochko at 955-1543.

This NEWSLETTER, with the exception of the cover page, is copied on a Risograph Model TR1510 copier at 3 pages per second!

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# Saskatoon Centre

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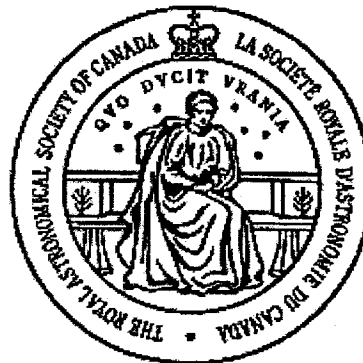
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Dickson, S. Ferguson, W. Essar



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*Saskatoon Skies* is published monthly by the Saskatoon Centre of the RASC. Distribution is approximately 140 copies per issue. *Saskatoon Skies* welcomes unsolicited articles, sketches, photographs, cartoons, and other astronomy or space science articles. Articles can be sent by mail in any format to the Centre's mailbox. Submissions may also be sent by e-mail - preferred as **plain unformatted ASCII text files without line breaks**. Images sent by e-mail should be UUEncoded, attached .GIFs, .JPGs or similar. Send e-mail submissions to the editor at <[huziak@SEDSsystems.ca](mailto:huziak@SEDSsystems.ca)>. Submitted materials can be returned upon request. Please send articles in "generic" formats, with standard grammatical formatting appreciated - 5 spaces at the beginning of paragraphs, two spaces after periods, one space after commas. A separate subscription to *Saskatoon Skies* is available for \$12.50 per year. Articles may be reprinted from *Saskatoon Skies* without expressed permission (except where otherwise stated), but source credit is requested. **DEADLINE for submissions is the 26th of each month.** *Saskatoon Skies* accepts commercial advertising. Please call the editor for rates. Members can advertise non-commercial items free of charge.

### October is Election Month

October is election month for the Saskatoon Centre. Please try to attend this meeting and cast your vote for the new executive. Note that all terms come up for re-election this year, including the two-year terms of the President and Vice-president. An Executive position is open to any member of the Centre in good standing. Positions are chosen by democratic vote by the membership. Anyone can nominate anyone else (or themselves) for a position. Voting is done by a show of hands by those present at the General Meeting. In the event that you cannot attend the meeting, nomination by proxy will be gladly accepted. Contact a member of the current Executive. The following Executive positions are available:

Position	Current	Nominated/Appointed
President	Erich Keser	
Vice-President	Darrell Chatfield	
Honorary President	Ed Kennedy	vacant
Past President	Richard Huziak	Erich Keser (A)
Secretary	Al Hartridge	
Treasurer	Jim & Barb Young	
Centre Rep	Sandy Ferguson	
Newsletter Editor	Richard Huziak	
Education	Ellen Dickson	
Councilors	(no current)	Ken Noesgaard (ND)
Youth Coordinator	Sandy Ferguson	
Observing Coordinator	Darrell Chatfield	not re-standing
Activities Coordinators	Brian Friesen, Brent Gratias	
SSSP Coordinator	Erich Keser	
Publications Coordinator	Jean Dudley	
Fundraising Coordinator	Richard Huziak	
Membership Coordinator	Les Dickson	
Building Coordinator	Bill Hydomako	

All positions below the 'Councilor' position are not 'true' executive positions, but are taking the place of 'councilors at large'. The following positions are not currently Executive positions, but these jobs could be done anyway. If anyone would like to be nominated to one of these positions, the Executive will consider adding the position: General Meeting Coordinator, Programming, Media Promotions.

Please attend this meeting and exercise your right to vote!

## **Building Grant Received from IMC Kalium Colonsay Mines**

**by Darrell Chatfield**

The RASC is delighted to have received the first corporate donation to the Sleaford Observatory Building Fund. At the end of September, the RASC received a cheque for \$2000.00 from IMC Kalium Colonsay Mines. These funds are a result of IMC Kalium's generous contributions to worthwhile community activities. I would like to thank Mr. Kelvin Dereski, IMC General Manager, and Centre members John Fraser, Terry Nelson, and Rick Huziak in helping me prepare the brochure and presentation and for direction given when approaching the mine. The money will be used in the spring to begin work on the 16-inch telescope observatory.

## **Raymond Auclair, National Secretary, Visits Saskatoon**

**by Richard Huziak**

During September, there was a quick visit by National Secretary, M. Raymond Auclair to our Centre. Raymond was in town to help host a seminar on the Transportation of Dangerous Goods sponsored by Transport Canada.

Raymond and I spent the evening lunching and discussing some National business, including Family Memberships, future General Assemblies, the SSSP, and general RASC politics. We then toured the Sleaford Observatory. Sleaford had the Astronomy 212 class there, and arriving a bit later, the Astronomy 101 class. Raymond was duly impressed with the facility, and commented on how good the skies were, despite the *nearness* to Saskatoon and despite a very bright moon.

As we were gazing skyward, we also witnessed a very strange satellite or possibly a satellite re-entry. In the low north, a fast-moving satellite appeared, moving about 5 degrees per second. This 3rd magnitude object streaked half-way up the eastern sky, disappearing near the moon in the southeast. It's motion was much faster than a *normal* airliner, but it's light and character were exactly like a normal satellite!

Later that evening, we toured the University of Saskatchewan, and especially the buildings within which the 1982 General Assembly were held, which was Raymond's last visit to Saskatoon.

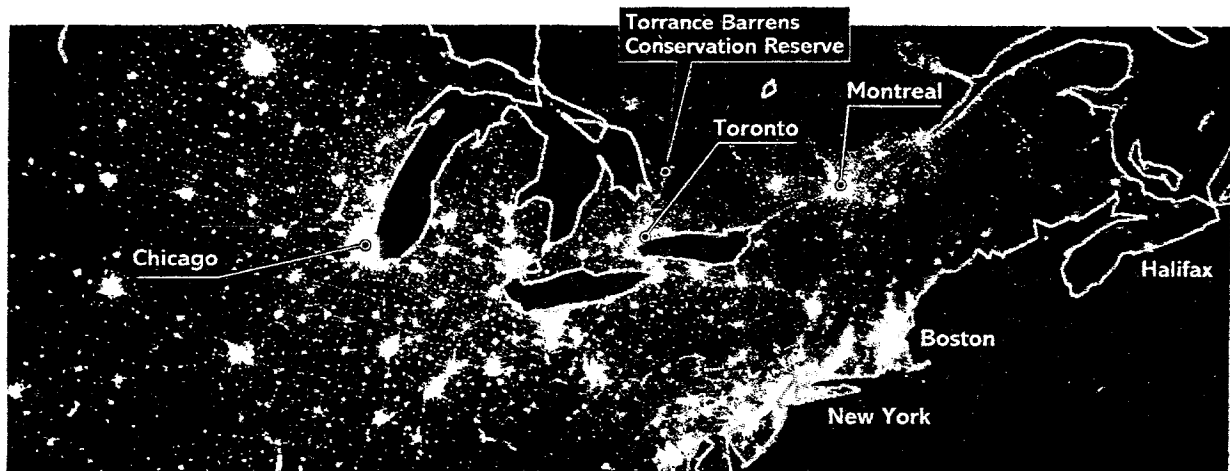
## **Benefits of Membership with the Saskatoon Centre**

**Past-members and temporary members are encouraged to join or rejoin the Centre as soon as possible in order not to loose out on any benefits of membership, which include:**

- use of the Sleaford Observatory
- use of the UofS Observatory (after training)
- Saskatoon Skies Newsletter
- Observer's Handbook 2000
- The Journal of the RASC (bi-monthly)
- SkyNews Magazine (bi-monthly)
- discounts to Sky & Telescope Magazine
- discounts of Sky Publishing merchandise
- discounts to Firefly Books

## BRIGHT LIGHTS, BIG CITIES

A satellite photograph shows the light emitted from the eastern half of North America. The map locates the Ontario preserve where restrictions will be enforced on artificial light.



Source: National Oceanic and Aerospace Administration

The Globe and Mail

# Ontario's 'dark-sky' park a world first

MARTIN MITTELSTAEDT  
Environment Reporter

## BLACK BEAUTY

*Hidden by the glare of city lights, cloaked in a haze of air pollution, is a sight many never see now — the velvet beauty of the heavens at night.*

With its brilliant display of planets and stars, the night sky can be the most beautiful sight on Earth.

But it's fading fast.

In heavily populated areas, the increasing glare from artificial lighting and the haze generated by air pollution have robbed the heavens of much of their glory.

"It's possible for people to grow up, even to adulthood, without ever having seen the beauty of the night sky," laments astronomy writer Terence Dickinson.

The situation has caused so much concern that the Ontario

government has decided to do something unique: It has created the world's first sky preserve.

Protection of the night sky has been declared one of the official goals of the Torrance Barrens Conservation Reserve, which is being created from a 1,990-hectare tract of Crown land just west of Grave-

nhurst and south of Lake Muskoka.

The "dark-sky preserve" will be almost free of light pollution even though the area is within easy reach of Southern Ontario's most highly developed areas.

Last week, the Ministry of Natural Resources endorsed a statement of conservation aims for the barrens that included stargazing. The statement noted that "the absence of light pollution in the night skies over the reserve is remarkable."

Although the statement of conservation interest remains open to public review, this process is not expected to change the reserve's dark-sky designation.

Please see **NIGHT** on page A7

# Urban glare irks sky watchers

NIGHT from page A1

The site is even more attractive because lands to the north are owned by the Crown and free of development, and areas to the south are also scheduled to be placed in a new conservation reserve, factors that bode well for maintaining its pristine nights.

Although there is tourist development in the area, municipal governments are expected to take steps to curtail the use of poor-quality night lighting in a five- to-eight-kilometre band around the reserve. The barrens themselves are an expanse of relatively undisturbed, flat bedrock, and trees are stunted because of the lack of soil. Both the flatness and small trees appeal to stargazers, who prefer unobstructed views of the horizon.

The reserve is the brainchild of Peter Goering, a retired Toronto architect and amateur astronomer. Last year he approached a provincial panel studying plans for future parks.

Underwater parks didn't exist a few decades ago, he noted, but now are common because of the interest shown by divers. "I said: 'What about the possibility of a sky park, because it's so difficult to see the sky for urban people?'"

The idea took off, thanks to the provincial government's interest and support from the Muskoka Heritage Foundation, a preservation group on whose board Mr. Goering sits.

Mr. Goering said he has watched the intensity of the night fade from excessive lighting, which he calls "a darned nuisance." He used to be able to see the night sky clearly near Toronto, but now must go farther and farther to avoid the city's glow.

"I'm not a professional astronomer. I'm an amateur, but one of the wonderful aspects of going north of the city was to be able to see the stars," he said.

This weekend, Mr. Goering will describe the campaign to create the night reserve at a Royal Astronomical Society of Canada conference being held at the University of Toronto.

Although some cities have taken steps to reduce light pollution, particularly around observatories, the

idea of preserving the night sky in a park had not yet been explored.

"It's fair to say it's the first one like this anywhere," said David Crawford, executive director of the International Dark-Sky Association in Tucson, Ariz. The group was formed in 1988 to raise awareness of light pollution and the harm it does to stargazing.

"Light pollution has come in a great rush over the last decades. It's created a real wash of glare for everybody," Mr. Crawford said.

What irks sky watchers is the design of much modern outdoor lighting, which allows light to escape in all directions, including upward. Placing bulbs deep within conical fixtures would focus light downward to where it is needed, they say, and would require less energy.

Another improvement would be to put outdoor security lighting on motion sensors, so it would be triggered only when needed.

Municipalities around the Torrance Barrens have been asked to consider taking such measures to help preserve the night sky — a step endorsed last month by the Township of Muskoka Lakes, which borders the site.

Mr. Dickinson, an amateur astronomer and the editor of Sky-News magazine, said better knowledge of the night sky might help Canadians avoid a situation of the sort Californians experienced a few years ago.

After a major earthquake knocked the power out, residents of the state began to see the night sky again. Many called the police and radio stations, Mr. Dickinson said. They were worried "about the strange appearance of stars and a misty band [in the sky] that must have been caused" by the quake.

"Large numbers of people have never seen a pristine sky and don't know what it looks like, which is truly astonishing," he said.

Mr. Dickinson supports the reserve idea, saying the night sky is much like an endangered species in need of protection from modern life.

"The fact is that now, almost everywhere you go, night has to be eradicated in order for people to feel comfortable."

page 7

Oct. 99

*Time to  
Renew  
for the 1999-2000*

**Membership runs from  
Oct. 1 to Sep. 30.**

**Please send payment to  
the Centre mailbox.**

**Regular - \$40.00  
Youth - \$22.50  
Life - \$720.00**

This article is copyright The Globe and Mail newspaper, September 1999 and was contributed by Les & Ellen Dickson.

You are invited to an

## **OPEN HOUSE**

at

# Sleaford Observatory

Located at the site of the former Sleaford School

**FRIDAY**

**AND**

**SATURDAY**

**OCT. 15, 1999**

**OCT. 16, 1999**

**8 PM to 10 PM**

**8 PM to 10 PM**

**Come meet us regardless of weather**

- **Tour the new University of Saskatchewan observatory**
- **Look at the RASC's observing facilities**
- **Try a bit of stargazing through our telescopes, if clear**

**Sponsored by:**

University of Saskatchewan  
Department of Physics & Engineering Physics  
Contact: Stan Shadick  
966-6434

Royal Astronomical Society of Canada  
Saskatoon Centre  
Contact: Rick Huziak  
665-3392



## Sleaford Open House & Star Night

by Rick Huziak

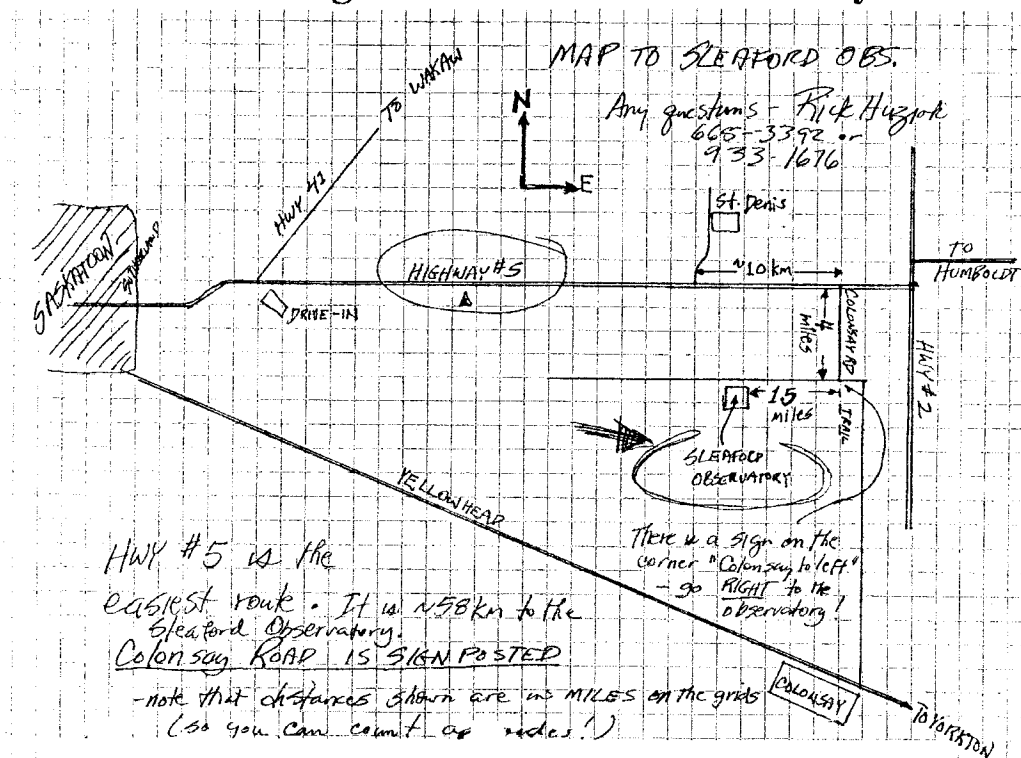
There is an open house and public star night at the Sleaford Observatory this October 15th and 16th. Officially, this event runs from 8:00 p.m. to 10:00 p.m. and goes no matter what the weather! However, unofficially, we would like members to arrive earlier and help with directing parking (to assure that all cars can get in and out with ample clearance and due safety). We'd also like to get our telescopes set up in the dusk (on the east side of the property), and be ready to show the visitors the sky from about 8:00 p.m. onward. Certainly, there will be stragglers that stay after 10:00 p.m., and we will want to accommodate anyone who wants to stay later.

Remember to dress very warmly with parkas, toques and mittens, since it *is* October! Coffee will be served in moderation, since only the outhouse is operational.

The U of S Roll-off Observatory and the newly renovated Sleaford Schoolhouse will also be open for tours.

For more information, call Erich Keser at 374-4262.

### Getting to the Sleaford Observatory



## A New Variable Star Discovery

by Rick Huziak

In the course of my normal variable star observing, I regularly run across comparison stars whose magnitudes do not appear to be correct, appearing either fainter or brighter than the listed magnitude. Most of the time these stars are already known to AAVSO and can usually be traced to inaccurate charts - simple mistakes.

However, I recently posted about 2 dozen discrepant stars on the AAVSO discussion list on the Internet to see if anyone else would verify that these stars were *wrong* magnitudes, and maybe this would lead to some new variable stars. Within a day, I received a confirmation that one star in the EY Cygni field was indeed variable! It was confirmed by Arne H. of the US Naval Observatory, after he reviewed a star field around EY in which some differential photometry (by Bruce Sumner) had previously been done, but this *new* star was not one of the stars being measured at the time. The General Catalogue of Variable Stars (GCVS), the New Catalog of Suspected Variables (NSV) and the New Suspected Variables Supplement (NSVS) were also checked by Taichi Kato of the University of Kyoto (Japan), and the star does not appear. Also, no AAVSO member nor member of the Japanese Variable Star Organization has previously reported this star as variable. So this is a *new* discovery!

The star is faint, but can be observed using 10-inch or larger telescopes. The variation ranging from at least 13.1 to 13.8 visual magnitude, though a larger range is certainly possible. It is identified in the Hubble Guide Star Catalog as GSC 2673.2382 and is located at 19h 54m 51s +32d 20m 15s, just to the southeast of EY Cygni, which is a few degrees southeast of well-known Mira variable, chi Cygni. I am temporarily referring to the new variable as *131compSE of EY Cyg*, following standard AAVSO protocol.

In order to get this discovery officially recorded, it needs to be registered with the International Bulletin for Variable Stars (IBVS), but in order to do this, there needs to be some preliminary information on this star, such as type of variation, spectral class, period, range, etc. To accomplish this task, I have asked members of the AAVSO, and the RASC to monitor this star every clear night until these parameters are established. *I will credit anyone who contributes observations in the announcement article or bulletin.* I have also asked a few professional astronomers that I have had an acquaintance with to help out during their photometric programs.

To get a copy of the necessary observing charts, log in to <[www.aavso.org/](http://www.aavso.org/)> and find the lower menus for *charts, preliminary, by constellation, Cygnus, EY*, and download all scales of this chart (d, e, f, g). You will also need the *chi Cygni 'b' chart* in order to star hop to this crowded Milky Way field! The new variable appears on the *e, f* and *g* charts, and is labeled "131" just to the SE of EY.

All observations should be e-mailed to me at <[huziak@SEDSsystems.ca](mailto:huziak@SEDSsystems.ca)> and should include your name, e-mail address, scope used, visual estimate, comparison stars used, (Universal) time & date of observation general notes, etc.

# The Messier, FNGC & H-400 Club

## MESSIER CLUB

Certified at 110 Objects: Rick Huziak, Gord Sarty, Scott Alexander, Sandy Ferguson, Dale Jeffrey, Darrell Chatfield, Bob Christie.

Ken Noesgaard	79
Wade Selvig	64
Erich Keser	51
Tyler Cottenie	33
Stan Noble	28
Brent Gratias	26
Terry Nelson	21
Les & Ellen Dickson	20
Ellen Kaye-Cheveldayoff	16
Brian Friesen	15
Andrew Krochko	12
Debbie Anderson (*new*)	....8

## FINEST NGC CLUB

Certified at 110 Objects: Rick Huziak

Dale Jeffrey -(*applied*)	110
Darrell Chatfield	99
Gordon Sarty	97
Scott Alexander	83
Sandy Ferguson	...23
Ken Noesgaard (*new*)	5

## HERSCHEL 400 CLUB

Certified at 400 Objects: not yet!

Rick Huziak	337
Darrell Chatfield	216
Gord Sarty	137
Scott Alexander	70
Sandy Ferguson	...18

The Messier, FNGC and H400 lists are meant to promote observing! Please send in your observations of these objects, and I'll publish them in the newsletter!

*Join the Messier, Finest NGC  
and H-400 Club!*

Observe all 110 Messier, 100 FNGC or 400 H-400  
objects and earn your

**CERTIFICATE!**

The first 2 lists can be found in *the Observer's Handbook*. The Herschel 400 list will be available at each general meeting for 50 cents (covers photocopying) or can be mailed out on request to distant members. Each month I'll be posting updates.

I'd also like to welcome newcomer Debbie Anderson to the Messier list! Good observing, Debbie!

## Download Your Own Messier Album

*Word has arrived that there is an Internet downloadable Messier Recording Book complete with finder charts, courtesy of Roger Fell. Visit <http://www.geocities.com/CapeCanaveral/Launchpad/7021/index.html>*

Send observing numbers to  
<huziak@SEDSsystems.ca>

## U of S Observatory Hours

The U of S Observatory is open to the general public every Saturday evening. Admission is free. The observatory is located on campus, one block north of the Wiggins Avenue and College Drive entrance. On clear evenings visitors may look

through the 6-inch refractor to view Jupiter, Saturn, the moon, star clusters and other exciting astronomical objects. For further information, phone the recorded Astronomy Information Line at 966-6429.

**Hours: October - February 7:30 p.m. - 9:30 p.m.**

You are invited to the  
**General Meeting of the Saskatoon Centre**  
**Monday, October 18, 1999 at 7:30 p.m.**

Conference Room, National Hydrology Research Institute building  
Innovation Boulevard

Presenting:  
**Doug Miller**

### **Optical Terms Demystified**

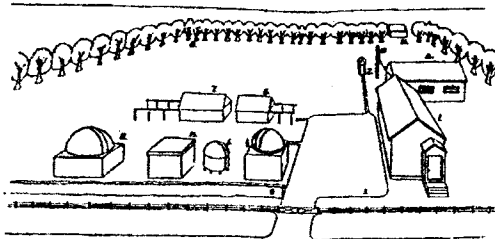
Doug Miller is an amateur astronomer with professional optical design experience. Doug will demystify optical terminology used by manufacturers of telescopes so that good evaluations can be made by amateurs when buying their next telescope. Will this certain model work the best in the application you want it for? Come and see!

### **Annual Executive Elections**

**Come and vote in your next year's executive council.**

This event is open to the general public. There is no admission charge.

**Note: This is the last meeting to be held at the National Hydrology Research Institute Building. Watch next month's newsletter for the new meeting location!**



## The Sleaford Observatory

Longitude: 105 deg 55' 13" +/- 13" W Latitude: 52 deg 05' 04" +/- 08" N

by Rick Huziak

**Fundraising** - Fundraising efforts continue for the observatory, and we are now raising funds with the objective of having about \$14,000 available for next spring's construction of the 16-inch telescope observatory. Funding toward this has already been received in the form of a \$2000 grant given by IMC Kalium Colonsay Mines. Further to this, a *Special Projects Grant* from National Office has been applied for, for a sum of several thousand dollars.

**Construction** - Construction continues on the existing portions of the Sleaford Observatory. In the last few weeks, Ron Schnor and I worked on covering the base of the Warm-up Shelter with aluminum flashing to mouse-proof the building. In the mean time, Bill Hydomako and Darrell Chatfield removed part of the wall separating the existing structure and the expansion. In the next few weeks, the flashing will be completed, and the separator wall will be built. Then electrical wiring and insulating will follow. Hopefully, the University will soon purchase the toilet, and this can be installed this fall.

### Schoolhouse Clean-up & the Friends of Sleaford

A bit surprise is the recent restoration work done by to the schoolhouse done by the *Friends of Sleaford*, headed by Terry Beebe. They have had the interior repainted & the floor varnished. They also built a trap door to the basement and rebuilt the east-wall crash door and step which now excludes mice! So the school can be used again for meeting space, but cannot be used for storage (except for the basement) which presents us with a small problem of where to store building supplies!

**Utilization** - Site use continues to be high, with a recent Thanksgiving Weekend Gala, where John and Teresa Mulvena, Gordon More (guest), John Fraser (with his new 8-inch scope), Andrew Krochko and I observed what we could through a horrific aurora display, while two Astronomy 212 students, Brian Chatsis and Wai Man Chow completed 11 of 12 spectra of bright stars through the Meade 10-inch. Seeing good use of the site is very encouraging for future plans!

**Next Building Day - Saturday, October 23**  
**call Darrell Chatfield or Bill Hydomako to volunteer!**

## **Minutes of the Executive Meeting**

**Wednesday, September 15, 1999**

**held at the Open Door Society Room, Saskatoon, 7:30 p.m.**

**recorded by Al Hartridge, Secretary**

1. Financial report - there is about \$5500.00 in the club's account. The SSSP has contributed about \$2000.00 in revenue.
2. Membership report - 33 temporary members will be carried through to next month. An additional 3 will be carried until November.
3. Fundraising-
  - Literature sales have been extremely good, there is a proposal by Jean to purchase more books for sale this winter.
  - Kalium Mine- has confirmed it wishes to be a corporate donor. Details to be revealed later.
  - a proposal is being readied to send to National office.
4. SSSP report:
  - Hall and unit reservations have been made for next year.
  - Alister Ling has offered to write an article on the SSSP.
  - coordination of future events discussed.
5. Sleaford Site report
  - an open house and star night will be held on Oct. 15 and 16.
  - the Partnership Agreement is still not signed.
  - Darrell stated that to finish what has been started at the site would require about \$2125.00 in funds.
6. Beaver Creek Star Night - Brian Friesen will require volunteers to set their telescopes on Friday or Saturday night at Beaver Creek.
7. Other Business:
  - obituary for the *Journal* will be written by Jim Young regarding Prof. Ed Kennedy.
  - Sandy needs help with the junior and youth astronomers.
  - 30th anniversary of clubs formation to occur in November. Will likely hold a gastronomy night in association with this.
8. Meeting adjourned at 9:00 pm.

**Remember the Transit of Mercury on November 15th visible just at sunset, and just before the next General Meeting! Plan to have a clear SW horizon and observe proper solar observing practices. See page 177 of the Observer's Handbook 1999 for details.**

## **Minutes of the General Meeting**

**Monday, September 20, 1999**

**held at the National Hydrology Conference Room, Saskatoon, 7:30 p.m.**

**recorded by Al Hartridge, Secretary**

1. The death of Ed Kennedy - A long time member of the RASC - spoken on by Jim Young.
2. Membership renewals - it is time to renew RASC membership again. The topic of family memberships was brought up again.
3. Calendars and Books - \$800.00 worth of books and calendars was sold at the star party this summer.
4. Presentations:
  - The SSSP. The general report on the star party was given by Erich who stated that even though the weather was poor this year the attendance was good and enthusiasm was high. Sandy reported on the happenings at the Meadows camp ground. Rick, the Dicksons and Darrell also gave their views.
  - Rick Huziak also gave us an update on the latest developments at the dark site and asked Club members to be patient with the astronomy students and promised in the future that WHITE LIGHT would not be a problem.
5. Membership report - Les Dickson brought us up to date on the club membership.
6. Financial report - given by Barb Young and Jim Young. The club's coffers are quite healthy as result of the SSSP.
7. Fundraising -
  - a proposal was made by Jean that we spend \$710.00 on books and calendars to sell this winter. This motion was carried.
  - Kalium mine has stated to the club that they are willing to be a corporate donor.
  - a proposal for a grant is also ready to go to national office.
8. Sleaford Site Report :
  - Darrell stated that it will cost about \$2125.00 to complete the work that has been started at the site.
  - an open house and star night will be held at the site on Oct. 15 and 16. A large crowd is expected to attend.
9. Beaver Creek Star Night - Brian stated that that there were 4 telescopes and 41 people at the star party.
10. Youth and Juniors have amalgamated into one group.
11. 30th anniversary of the foundation of our Centre is coming up Nov. 7th . Preparations are under way. A gastronomy night will likely be held in conjunction with this.
12. Meeting adjourned at 9:30 pm.



**SKY VUE TELESCOPES  
HAS  
CHRISTMAS IDEAS**  
Sky Vue Telescopes Ltd  
144 Edgehill Close N.W.  
Calgary, Alberta  
(403) 239 - 8386  
SkyVue@cadvision.com



## REFRACTORS

TELEVUE	- 70mm/85mm/101mm/ incredible optics	Let's Talk !!!
Sky Watcher	- 70mm entry level F7.1 or F10	- \$200 - \$330
Omcon	- 80mm F7 - Great Starter Scopes	- \$360 - \$600
Vista	- 80mm F5/F11.4	- \$300 - \$580
Vista	- 90mm F11.4	- \$510 - \$580
Vista	- 102mm F9.8 equitorial, K10&25 6x30 finder	- \$700
Omcon	- 105mm F9.5 eqitorial, K10&25 6x30 finder	- \$1060
Antares	- 105mm F9.5 equitorial, PI10&25 6x30 finder	- \$1290
Sky Watcher	- 120mm F8.3 "The BIG One"-2" focuser&Diag	-\$1000
Antares	- 120mm F8.3 - Vixen Premium Optics	-\$1760
Sky Watcher	- 150mm F8 "New for November"	-\$1530

## REFLECTORS -by Omcon, Vista, Sky Watcher, Antares

3" F9.3, - Tripod, K25, &1.25 focuser	- \$150-\$160
4.5" F8, - Tripod, eyepieces, 1.25 format, AZ mount	- \$200
4.5" F8, - Tripod, equitorial mount, eyepieces and more	- \$240-\$380
5" F8, - Tripod, equitorial mount, optical window	- \$490
130mm - F6.9, neat small scope, equitorial mount, etc.	- \$390
150mm - F6.7, an affordable/portable 6" scope	- \$730
150mm - F5, parabolic mirror, EQ.mount, 6x30 finder	- \$780-\$800
200mm - F5,(8") parabolic mirror, EQ.mount 9x50finder	- \$1180
200mm - F5 (8") Top of the Line, 10x50finder, 2" focuser	- \$1250
6" Dob. - F8, spherical mirror, 1.25 focuser	-\$490
8" Dob. - F6, 1.25 focuser, PI 26+2xbarlow -Great Scope	-\$650



**STOCKING STUFFER IDEAS**  
Eyepieces, Filters, Telerads

