

Saskatoon Skies

Vol. 37
No. 9
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2006

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

10th year of Saskatchewan Summer Star Party



Saskatchewan Summer Star Party 2006 - Cypress Hills Interprovincial Park, August 24 - 26

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Saskatoon Centre
The Royal Astronomical Society of Canada
P.O. Box 317, RPO University
Saskatoon, SK S7N 4J8

WEBSITE:
www.usask.ca/psychology/sarty/rasc
E-MAIL: rmwaldron@shaw.ca
TELEPHONE: (306) 382-9428

SSSP '06 REDUX

MEMBERSHIP? IT'S NEVER TOO LATE TO JOIN!

Regular: \$65.00 /year Youth: \$34.25 /year Lifetime: \$1100

The Saskatoon Centre operates on a one-year revolving membership. You will be a member for the next 12 months no matter when in the year you join. If you do not want to join at this time, ask to get onto our FREE 3-month Temporary Membership list. You will receive regular mailings of our Saskatoon Skies newsletter and will be invited to participate in Centre activities. Members are encouraged to renew early to avoid disruption in publications. Renew through the membership coordinator, Mike Clancy, or renew through the National Office and let Mike know that you did!

Benefits of Membership in the Saskatoon Centre

- knowledgeable & friendly amateur astronomers
- use of the Sleaford Observatory
- use of the U of S Observatory (after training)
- Saskatoon Skies Newsletter
- Observer's Handbook
- The Journal of the RASC (bimonthly)
- SkyNews Magazine (bimonthly)

- use of the Centre library
- discounts to Sky & Telescope Magazine*
- free, no-cost, no-obligation, 3-month temporary membership if you don't want to join right now!

** New subscription or renewal of Sky & Telescope? Send new info or renewal notice, plus credit card # to Norma Jensen, 128 - 4th Street East, Saskatoon, SK S7H 1H8, or fax 306-659-2170.*

SASKATOON CENTRE'S MAIN OFFICERS:

President – Ron Waldron, 382-9428

Secretary – Al Hartridge, 373-0034

Vice-President – Garry Stone, 857-4707

Treasurer – Norma Jensen, 244-7360



BOTTLE DRIVE & CANADIAN TIRE \$ by Darrell Chatfield

Thanks to \$2.40 from Sandy Ferguson we have collected \$185.10 in Canadian Tire Money! If you cannot make it to a meeting but would like to contribute, your Canadian Tire money please call me at 374-9278.

**LIGHT POLLUTION
ABATEMENT
WEBSITE AT:
www.ras.sk.ca/lpc/lpc.htm**

Newsletter Editors – Tenho Tuomi, Ken Maher **Copy & Collate** – Les & Ellen Dickson **Labels & Temps** – Mike Clancy **Web Posting** – Gord Sarty

Saskatoon Skies is published monthly by the Saskatoon Centre of the RASC. Distribution is approximately 100 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. Submitted materials can be returned upon request. 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 attached .JPGs (.GIFs also accepted). Send e-mail submissions to the editor at <tuomi@sasktel.net>. Please send articles in "generic" formats with simple formatting – one tab at the beginning of paragraphs, one space after commas and periods. A separate by-mail subscription to Saskatoon Skies is available for \$15.00 per year. Saskatoon Skies is also posted on our Saskatoon Centre homepage as a .pdf file and can be downloaded free-of-charge. Members may choose to receive the newsletter by regular mail or via the Internet. Articles may be reprinted from Saskatoon Skies without expressed permission (unless 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.

RASC CALENDAR OF EVENTS

Sept 18	RASC Executive Meeting - 6:30 p.m., 175 Physics, U of S.	Ron Waldron	382-9428
Sept 18	RASC General Meeting - 7:30 p.m., 175 Physics, U. of S	Ron Waldron	382-9428
Sept 22	Observers Group - 9:00 p.m., Sleaford Observatory	Larry Scott	934-5801
Sept 26-Oct 1	Northern Prairie Starfest , Black Nugget Lake, AB	Doug Hube	jdhuber@telus.net
Oct 16	RASC Executive Meeting - 6:30 p.m., 175 Physics, U of S.	Ron Waldron	382-9428
Oct 16	RASC General Meeting - 7:30 p.m., 175 Physics, U. of S	Ron Waldron	382-9428
Oct 20	Observers Group - 8:00 p.m., Sleaford Observatory	Larry Scott	934-5801

MINUTES OF THE EXTRAORDINARY EXECUTIVE MEETING AUGUST 6, 2006

by Al Hartridge

A meeting was held on Aug. 6, 2006 2:00 p.m. at Ron Waldron's place to discuss the possible purchase of a Meade 16 inch telescope from the Toronto Centre.

Those in attendance were: Ron Waldron, Richard Huziak, Les Dickson, Garry Stone, Norma Jensen, Bill Hydomako, Darrell Chatfield, Graham Hartridge, Al Hartridge.

Ron Waldron mentioned that any decision made by the executive members would have to be forwarded to the membership at large by email and responses made back to Ron before a deadline to be determined.

There was a lengthy discussion amongst executive members. One of the sentiments held by all was that if the scope is purchased it should be put into use quickly. Many pros and cons were discussed.

Motion: a motion was made by Rick Huziak, seconded by Norma Jensen and carried that we purchase the 16 inch Meade telescope offered for sale by the Toronto Centre at a price of \$6500.00.

Stan Shadick has offered use of the east most pier in the U of S roll-off observatory at Sleaford for one year. In return Stan is requesting time on the telescope. A letter explaining Stan's ideas was read to the executive by Ron Waldron.

Garry Stone is willing to pick up the telescope in Toronto and bring it to Saskatoon. This will be in October some time. Since he has farm plates the question of insurance will have to be solved.

Meeting adjourned at 3:06 p.m.

Centre Purchases 16"

Telescope

by Ron Waldron, President

The executive of the Saskatoon Centre has purchased a used 16" Meade LX200 SCT telescope. The opportunity presented itself to us as the Toronto Centre was upgrading its facilities. The information about the telescope as it was communicated to us and to the membership was as follows:



* Meade 16" Classic LX200 EMC * GOTO Schmidt-Cassegrain optical system with 2" Meade Diagonal with 1.25" adaptor, Meade 8x50 straight-through finder with reticle eyepiece * Telrad unit power pointing device * 16" Kendrick dew heating strap and controller * Standard counterweights * Electric focuser (controlled via handpaddle) and microfocuser (controlled via focuser control) * 18V AC power supply adaptor * Custom Pier (approximately 45" high, customized for 45degrees latitude - can be adjusted up +/- up to 5 degrees) * Custom wooden pier organizer for accessories and equipment

The purchase price for this system was \$6,500.00 Cdn plus shipping.

A photo of the actual telescope we purchased can be found by visiting this internet link:

http://toronto.rasc.ca/artman/uploads/celebrating_the_cao.pdf

A meeting of the executive was held in early August to decide whether or not to purchase this telescope. I am very excited to announce that the vote was a unanimous "yes". The purchase of this telescope will be a major step toward completing our primary goal of having a 16" telescope for the membership to use. Our vice president Garry Stone has offered to pick it up and bring it home while visiting his daughter in Toronto in late September or early October. Stan Shadick has kindly offered temporary mounting of the telescope on a vacant pier in the roll-off dome at Sleaford in exchange for some usage by students.

MONDAY, SEPTEMBER 18

7:30 PM – ROOM 175, U OF S

Presenting

"Our new Meade LX 200 Telescope"

-- Ron Waldron

"The Libyan Solar Eclipse" -- Dale Johnson

"SSSP Highlights" -- Any attendees with photos to show

Note: There will be an executive meeting at 6:30 p.m!

SKY BUYS & MIRROR CELLS

The Saskatoon Centre's Swap and Sale Page!

For Loan to Members: Slide set for talks on general astronomy and light pollution. You can borrow this set any time you want to give a talk to your favourite group. Contact Rick Huziak at 665-3392.

For Sale:

One Celestron 8 inch Schmidt-Cassegraine telescope, black
 - heavy duty stand with motor
 - manual for scope
 - Barlow 2X lens
 - Telrad
 - Thousand Oaks sun filter
 - two hole focusing device
 - spotting scope attached to main barrel
 - two large Terry Dickenson books - value \$100
 - red light flashlight

Hardly used, mint shape. Asking \$1400.00.

Garry Kohuch
 Res: 306-497-2443
 Mobile: 306-497-7488
Kohuch@sasktel.net



BOOKS FOR SALE

by Bruce Brandell, Sales Coordinator
 All items will be available at our next meeting or call 249-1119, or email bruce.brandell@yahoo.com

Title	Author	# Avail	Price
Calendars			
RASC 2007	RASC	20	\$14.00
RASC 2006	RASC	1	\$5.00
Night Watcher	S. Schadick	3	\$18.00
Books			
The Backyard Astronomer's Guide	Dickinson & Dyer	2	\$45.00
Exploring the Sky by Day	T. Dickinson	2	\$9.50
Exploring the Night Sky	T. Dickinson	3	\$9.50
Night Watch	T. Dickinson	2	\$33.00
Summer Stargazing	T. Dickinson	2	\$18.00
Night Sky Atlas	R. Scagell	3	\$27.00
Stargazing with a Telescope	R. Scagell	2	\$14.00
The Moon Observer's Guide	P. Grego	2	\$14.00
Firefly Astronomy Dictionary	Firefly	3	\$14.00
Firefly Planisphere	Firefly	2	\$19.00
Deep Sky Observer's Guide	Firefly	1	\$24.00
PACK			
Mars Observer's Guide	N. Bone	2	\$14.00
Deep Sky Observer's Guide	N. Bone	2	\$14.00
Practical Astronomy	S. Dunlop	2	\$14.00
Skyways – Astronomy Handbook for Teachers	M.L. Whitehorne	2	\$20.00
The Beginner's Observer's Guide	L. Enright	3	\$19.00
Observer's Handbook 2006	RASC	4	16.00
Saskatoon's Stone	W.K. Mysyk & C.L. Kulyk	22	\$3.00
Miscellaneous			
RASC Centennial Mug		2	\$5.00
RASC Stickers, blue or white		lots	\$1.00
SSSP 2001 Pin (Summer Triangle)		17	\$3.00
SSSP 2002 Pin (Comet)		29	\$3.00
SSSP 2006 Pin (10)			\$5.00

The 10th Saskatchewan Summer Star Party

by Barb Wright



Wives at the SSSP; Anna Clancy, Myrna Stone, Velma Tuomi

ever, and certainly the best. Myrna Stone single-handedly prepared coleslaw and fabulous baked beans for us all.

This was followed by a First Nations Astronomy presentation at the amphitheater. This was open to the public, and sponsored by the park. Wilfred Buck and Rockford Mckay gave a unique performance, a First Nations perspective of the universe.

The weather co-operated all weekend, with clear skies and good viewing. Due to extremely dry conditions, the park had a fire ban in place, and we were all conscious to be very careful in the Meadows.

Another new event this year was a digital SLR astrophotography workshop led by Alan Dyer. This had limited enrollment, and was in high demand.

Friday evening we hooked up with Starfest star party in Ontario, to compare what was going on at each Star Party. That was good fun, led by Vance Petriew at our end. (Our weather was considerably better than theirs!)

Friday evening was our usual program of short talks. Saturday morning was the swap meet, then talks at the Wapiti room in the afternoon. Kevin Black and Jay Anderson led the program, followed by the Father Kemble Memorial Lecture. This year, the

The 10th SSSP speaker was National RASC president Scott Young, the topic "Pluto vs. the Ice Dwarves", very entertaining and timely topic.

Park and Dark

Sky Preserve was well attended, with a total of 275 people. The BBQ Thursday was the largest

The number of door prizes was absolutely amazing, vendors responded beautifully to help us celebrate 10 years of SSSP.



Cathy and Jeff Swick at SSSP

will be posted on the SSSP web site as well.

Thank you to the volunteers who helped SSSP run smoothly, and the planning committee who puts in countless hours beforehand in order to have a well-organized event. Next year the SSSP is August 9 to 12, so start making your plans to attend.



Left to Right: Les Dickson, Sharon Hartridge, Richard Huziak, Graham Hartridge (hiding), Allan Hartridge, Ellen Dickson, Paul Campbell, Denise Terpstra, David Prud'homme, Linda Prud'homme, Darcy Kozoriz, Barb Wright, Sonja Hinds, George Charpentier.

SSSP '06 - The Magic Continues

by Michael Clancy

Once again the moonless nights of August beckon me south to take in the skies of the Cypress Hills. Of all my observing sessions, I always enjoy the hours spent on top of the hill at the Meadows Campground because of the clarity of the night skies, the brilliance of the stars and the marvellous way the Milky Way seems so textured and full. In a word, breathtaking!

This year we arrived late on Friday afternoon, 25Aug06, and set up on the hill top beside my friends Tenho Tuomi and Garry Stone, their charming wives, and Stephen Stone. Nearby were Bruce Brandell and Brent Burlingham, while a host of other amateur astronomers of all ages filled the meadow; over 230 people, apparently! I'd brought the 90 mm Celestron Maksutov-Cassegrain travel scope I'd purchased 2 years before in that very meadow as I wanted to use it on the Messier objects in the Sagittarius area. I started with the usual calibration of my red-dot finder scope on the top-most red light on the tower east of our position, then checked out Jupiter and her 4 largest moons.

By now, my main area of interest was beginning to brighten and I got started in earnest about 2200 hrs with the Lagoon Nebula, M8. The star cluster was quite bright and distinct and I got great views of the nebulosity with my 15mm Plossl (~80x). I then observed the Trifid Nebula, M20, and then a globular cluster M22. I could resolve some of the peripheral stars with my 10mm Plossl (~120x) but it was mostly a fuzzy presentation. Garry's 8" Schmidt-Cassegrain had substantially better views, but then again you'd expect that!

I then worked through 2 open star clusters, M25 and M23, both of which I found best viewed with the 26mm Plossl (~48x). I spent rather a lot of time exulting in the Sagittarius Star Cloud (M24), scanning from side to side with the 26mm Plossl lens and examining specific areas closer with the 10mm Plossl. The night seemed so very clear that I thought all I had to do was hold out my mug to get a "double-double"! I last looked at a dim globular cluster, M54 (magnitude ~5.5), found by star-hopping from Ascella.

By now the remaining Sagittarius Messiers had drifted below the tree line so I moved my wandering gaze off to other heavenly sights: the Perseus Double Cluster, Albireo in Cygnus, the Andromeda Galaxy, and M13 in Hercules. I finally packed up my scope and walked back to my Rainbow Campground site about midnight, tired but excited.

There were a couple of other really wonderful things that happened: a First Nations gentleman gave a talk on Native Astronomy, beginning his talk with a drumming and song of gathering. Shortly after this, a family of coyotes send

back to him while off on a distant howling hill a lone wolf gave his permission for us to listen. It was an eerie moment, one where you felt the bones of this land give strength and life to you; it was hard to describe, and I sincerely hope the man returns next year - it was a special time. The other thing I really enjoyed were the two Iridium flashes seen in Perseus about 2300 hrs. Everyone on the hill stopped

what they were doing and turned to watch these satellites pass by, one at -7.0 magnitude!

Saturday nights' observing session was cloudy and murky until after 2230 hrs, and all the objects I wanted to see were below the horizon. Mind you, while Garry, Stephen and I were waiting for the skies to clear I recited Robert Service's classic "The Cremation of Sam McGee"! I was going to do some observing in the Cassiopeia region but my scope had a condensation problem so I decided to pack it in early, walking back to the campsite about 2300 hrs.

Even though I only had the one night of observing it was a very good night indeed and I enjoyed it so much that I will be back again next year. The organizing committee deserves commendation for all their hard work; as well, the staff and management of the Cypress Hills Resort worked hard for all our benefit. Ah, but above all and best was Cypress Hills Interprovincial Park herself; once more I've been enchanted by the sounds, smells, and sights of that magnificent park, and once more I promise to return next year!



Star Trails at SSSP

Venus at SSSP 2006

by Tenho Tuomi



Venus and Saturn through 16x80 telescope

Some years Venus has been close to inferior conjunction during SSSP, like in 2002 and 2004, and it was a good object for daylight viewing due to its large size and pleasing quarter moon shape. This year Venus was approaching superior conjunction, and was small and hard to find. However this year it was in conjunction with Saturn right during SSSP, and both were visible within one low power eyepiece. This would make it worthwhile getting up at 5 a.m. to see it.

My plans were almost spoiled by forgetting the alarm clock home. However we picked up an alarm clock from the Dollar Store in Wainright, Alberta (How we ended up in Wainright on the way to Cypress Hills is another story).

On Saturday morning Venus was half a degree above Saturn. I had to wait until 5:30 before they would

clear the trees so that I could take a picture of them. I could see nobody else up taking in this view. I thought about knocking on someone's tent door to tell what they are missing, but thought better of it.

On Sunday morning Venus had passed Saturn and was half a degree below Saturn. This time I found some such as Rick Huziak who were still up from observing all night, and convinced him and a couple others to stay up five minutes longer to see this sight. We found a place where we could see a gap in the trees and could observe Venus and Saturn earlier. Eventually my observing buddy Bruce Brandell got up to observe the pair, and I left him doing so while I went back to bed for a little more sleep.

By the way, the one-dollar alarm clock never ran after it woke me up on Sunday morning. It had done its duty.



Bruce Brandell at the SSSP with his 4-1/2 inch Carl Wetzlar reflector

"SASKATOON'S STONE"

Two Saskatoon Centre members, W. Kim Mysyk and Christine L. Kulyk, have joined forces to research, write, and produce a colourful new booklet. Titled "Saskatoon's Stone," this 44-page guided tour of the geology & history of stone architecture in Saskatoon has been published in celebration of the centennial of the City of Saskatoon.

- * Full-colour photos feature more than 40 buildings throughout the city
- * Highlights interesting historical and architectural details
- * Describes many different kinds of building stone seen in Saskatoon architecture:

- * how to identify the different stone types
- * what geological processes formed the stone, and

where it came from

* distinguishing features of various stone finishes and masonry styles

* Ideal for teachers and students! A fun, active way to explore geology in the city.

Price per copy: \$3 (plus GST)
For information or to order copies,
phone 306-374-0811 or write to:
Christine L. Kulyk, 217 East Place #17,
Saskatoon, SK S7J 3L9.

A COLOURFUL NEW
BOOKLET
PUBLISHED BY TWO
SASKATOON CENTRE
MEMBERS

(If ordering 1-5 copies by mail, please include an additional \$3 plus GST for mailing costs, with cheque or money order payable to C.L. Kulyk. For larger quantities, please phone or write first to enquire about rates.)

Recipes from the Saskatchewan Summer Star Party

by Myrna Stone

Brown Rice Salad with Dates and Oranges

(From the Joy of Cooking 1997 edition)

This salad takes its flavour inspiration from North Africa.



Stir together in a large bowl:

3 cups cooked rice (about 1 cup uncooked)
16 pitted and diced dates (a good handful)
2 scallions, minced

1/4 cup dark or golden raisins (I omitted these as I didn't have any in my cupboard)
1/4 cup minced fresh parsley
1/4 cup extra-virgin olive oil
2 tablespoons fresh lemon juice
1/4 teaspoon ground cinnamon
1/4 teaspoon ground cumin
pinch of red pepper flakes
salt to taste

1-2 hours before serving, add 2 large navel oranges, peeled, divided into segments, each segment cut into thirds. I just added them in layers when I transferred the salad to its serving bowl. Must be served at room temperature.

Carrot Salad

(From Our Favourite recipes Cookbook, Mennonite Ladies Aid - Hanley , Saskatchewan)

Cook until tender about 8 cups of carrots, drain and cool

1 large green pepper
2 Spanish onions
Dressing:
1 can tomato soup
1/2 cup salad oil

1 cup sugar
3/4 cup vinegar
1 tsp prepared mustard
1 tsp Worcestershire sauce



Dressing: Boil dressing until the sugar is dissolved and pour hot over the carrots. Let cool.

Keep in fridge. Will keep 3 weeks or longer...This recipe doubled fills an ice-cream pail.

Baked Beans for a Crowd

(From the Lions Club Cookbook)

For every 100 ounce can of beans:

1/2 cup chopped onion
6 slices of thick bacon diced
1 cup pineapple tidbits
1/2 cup brown sugar
4 tsp instant coffee (I would omit one teaspoon)
1/4 cup molasses (use a scant 1/4 cup if using Blackstrap molasses)
1 cup canned tomatoes
2 tsp dry mustard
2 Tbsp Worcestershire sauce



Saute bacon and onions, add to beans. Add remaining ingredients. Bake 325 F covered for one hour. Remove cover and bake 30 minutes longer.

Oatmeal Cookie recipe:

Now guys ... if your chickens aren't laying eggs and your spouse forgot to buy vanilla, use this recipe.

1 cup shortening (I use 1/2 cup Becel, 1/4 cup Crisco and 1/4 cup lard)
1 cup brown sugar
2 cups oatmeal
1 1/2 cups flour
1 tsp salt
3 tsp baking powder
1/2 cup milk

Method: roll into walnut sized balls. Press down with a floured fork. Bake 375 F . Please test-bake a few cookies. If too soft, add more oatmeal, not flour.

Annual Elections - A Primer

by Ron Waldron

Each year at the October General Meeting, elections are held for places on our Executive Council. Positions on the Executive are open to any member in good standing, and positions are nominated then elected by show of hands by the general membership. Some positions are two-year terms (President and Vice-President) and this year marks the end of Ron Waldron, our current president's two year term. Automatically assuming the presidency will be Garry Stone, the current vice-president. This means that there will be an opening for his current position.

To expedite the elections this year, a nominating committee will be struck at the September meeting of the executive. The purpose of the committee will be to poll members to fill the known positions that will be vacant. The nominating committee will exist only until just before the election and will bring a suggested slate of officers to the October meeting for the general membership to vote. Any member in good standing can become a part of the nominations committee.

The Executive and non-executive Coordinator Positions including anticipated vacancies are as follows:

- * President Ron Waldron
- * Vice-President Garry Stone (VACANCY anticipated)
- * Past President Richard Huziak
- * Newsletter Co-Editors Tenho Tuomi and Ken Maher
- * Secretary Al Hartridge
- * Treasurer Norma Jenzen
- * National Council Representative TBA
- * Councillors:
 - o Events Coordinator Jeff Swick
 - o Fundraising Coordinator Darrell Chatfield
 - o Membership Coordinator Mike Clancy
 - o Observing Coordinator Larry Scott
 - o Sleaford Site Coordinator Bill Hydomako
 - o SSSP Coordinator Barb Wright
 - o Councillor at-large Jim Young



The crew who moved the dome that Al Hartridge was kind enough to donate to the club.

o Councillor at-large Chris Martin (VACANCY anticipated)

Non-executive Coordinators

- * Librarian Darrell Chatfield
- * Centre Photographer/Archivist George Charpentier
- * Meeting Room Coordinator Graham Hartridge
- * New and Distant Members Coordinator James Gorkoff
- * Publications Sales Coordinator Bruce Brandell
- * Webmaster Gordon Sarty

If you would like to serve in some capacity on the executive, please contact Ron Waldron (382-9428). He would be delighted to see that you are nominated for the position you desire. Call us if you are interested, or know someone who could be. The vice presidency is the only executive position that is known to be vacant at the time of this writing.

Some of the positions listed above are deemed as "jobs" and as such are NOT executive positions so their administrators are not required to attend executive meetings. Those who do these jobs will report directly to the president and the membership.

Finally, all jobs are subject to possible reclassification as executive positions if deemed necessary by the nominating committee and executive. If you would like an explanation of what any of the executive or non-executive position entails, simply call your president.

A Moving Story



Al Hartridge's new dome on his observatory.

The Messier, H-400 & H-400-II, FNGC, Binoc & EtU Club

Join the Club! Observe all 110 Messier, 110 Finest NGC, 400 Herschel I or 40 Herschel II

Explore the Universe, or 35 Binocular Objects and earn great OBSERVING CERTIFICATES!

MESSIER CLUB

Certified at 110 Objects:

*R.Huziak, G.Sarty, S.Alexander,
S.Ferguson, D.Jeffrey, D.Chatfield,
B.Christie, K.Noesgaard, M.Stephens,
B.Hydomako, T.Tuomi, L.Scott,
G.Charpentier, B. Johnson, M. Clancy*

<u>Les Dickson</u>	<u>Done!</u>	<u>110</u>
<u>Brent Burlingham</u>		<u>107</u>
<u>Ken Maher</u>		<u>105</u>
<u>Brent Gratias</u>		<u>96</u>
<u>Mike Oosterlaken</u>		<u>93</u>
<u>Lorne Jensen</u>		<u>89</u>
<u>Kathleen Houston</u>	<u>Up!</u>	<u>83</u>
<u>Margo Miller</u>		<u>77</u>
<u>Wade Selvig</u>		<u>75</u>
<u>Norma Jensen</u>	<u>Up!</u>	<u>61</u>
<u>Garry Stone</u>		<u>57</u>
<u>Ellen Dickson</u>		<u>29</u>
<u>Brian Friesen</u>		<u>15</u>
<u>Barb Wright</u>		<u>6</u>
<u>Bruce Brandell</u>	<u>New!</u>	<u>5</u>

FINEST NGC CLUB

Certified at 110 Objects:

*R.Huziak, D.Jeffrey, G.Sarty,
D.Chatfield, T.Tuomi*

<u>Larry Scott</u>	<u>Done!</u>	<u>110</u>
<u>Scott Alexander</u>		<u>97</u>
<u>Bill Hydomako</u>		<u>55</u>
<u>Sandy Ferguson</u>		<u>23</u>
<u>Mike Oosterlaken</u>		<u>20</u>
<u>George Charpentier</u>	<u>Up!</u>	<u>12</u>
<u>Ken Maher</u>		<u>New!</u>
<u>Mike Clancy</u>		<u>7</u>

Chatfield BINOCULAR

CERTIFICATE

Certified at 35 Objects:

*M.Stephens, T.Tuomi, M.Clancy,
R.Huziak, K. Maher*

<u>Brent Gratias</u>	<u>36</u>
<u>Mike Oosterlaken</u>	<u>32</u>
<u>Anna Clancy</u>	<u>24</u>

EXPLORE the UNIVERSE

Certified for Certificate:

M.Clancy, T.Tuomi

HERSCHEL 400 CLUB

Certified at 400 Objects:

D.Jeffrey, R.Huziak, D.Chatfield

<u>Gord Sarty</u>	<u>251</u>
<u>Tenho Tuomi</u>	<u>Up!</u> <u>222</u>
<u>Scott Alexander</u>	<u>117</u>
<u>Mike Oosterlaken</u>	<u>68</u>
<u>Sandy Ferguson</u>	<u>18</u>

HERSCHEL 400-II CLUB

Certified at 400 Objects:

<u>Darrell Chatfield</u>	<u>Up!</u> <u>273</u>
<u>Richard Huziak</u>	<u>211</u>

The Messier & Finest NGC lists can be found in the Observer's Handbook. The Explore the Universe list is available on the National web site. The Herschel 400 list is available at the web site listed below. The Binocular List will be available at each general meeting or can be mailed out on request to distant members.

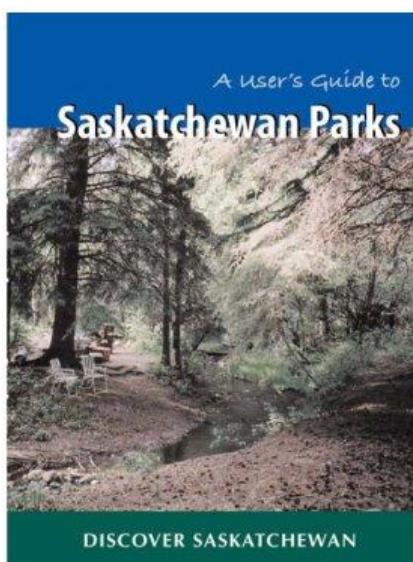


On-line Messier and Finest NGC lists, charts and logbooks - check out:

<http://www.rasc.ca/observe.htm>

On-line Herschel 400 List - check out the official site at:

<http://www.astroleague.org/al/obsclubs/herschel/hers400.html>



"A User's Guide to Saskatchewan Parks"

by Jeff Swick

For the second time in three weeks a Saskatoon center member publishes a book. [Editor's note: see "Saskatoon's Stone" page 7] It would seem all the stars are not in the sky.....we have a couple right in our midst. First out of the gate was Mike and Anna Clancy with their user guide to Saskatchewan Parks. I purchased a copy at the Star Party last week and immediately put it to use on our trip home as we stopped at Saskatchewan Landing. This book will make both a great Christmas gift as well as a handy resource during the winter to plan day trips and longer excursions. (from rasctoon list group)