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An incredible shot of the aurora from Colin Chatfield. More of his photos can be found on Facebook at <u>https://www.facebook.com/ChatfieldPhotographics/</u>



Saskatoon Centre The Royal Astronomical Society of Canada P.O. Box 317, RPO University Saskatoon, SK S7N 4J8 WEBSITE: <u>http://www.usask.ca/rasc/</u> E -MAIL: krisohn@gmail.com To view *Saskatoon Skies* digitally, see our website:

see our website: http://www.usask.ca/rasc/newslette rs.html

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# **MEMBERSHIP?** JOIN TODAY!

#### Regular: \$85.00 /year

Youth: \$45.00 /year

Family: \$80/year

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. Members are encouraged to renew early to avoid disruption in publications. Renew through the National Office at <a href="http://www.rasc.ca/join-us">http://www.rasc.ca/join-us</a>

#### 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
- Journal of the RASC (electronic format)
- SkyNews Magazine (bimonthly)

borrow the Centre's Data Projector to give astronomy outreach presentations – contact Les Dickson at <u>astrochem@sasktel.net</u>

- rent the Centre's Telescopes <u>https://www.usask.ca/rasc/telescopes.html</u>
- discounts to Sky &Telescope Magazine\*
- use of the Centre library

## **U OF S OBSERVATORY**

The U of S Observatory is open to the general public every Saturday of the year. Admission is free. The observatory is located on campus, one block north of the Wiggins Avenue and College Drive entrance. On clear nights, visitors may look through the vintage 6-inch and tour several displays. Current events are recorded on the Astronomy Information Line at 306-966-6429.

<b>Observatory Hours:</b>	
January – February	7:30 – 9:30 pm
March	8:00 – 10:30 pm
April – August	9:15 – 11:45 pm
September	8:30 – 11:00 pm
October – December	7:00 – 9:30 pm

#### SASKATOON CENTRE'S MAIN OFFICERS:

President – Alan Duffy Vice-President – To be Filled Secretary – Marcel Müller-Goldkuhle Treasurer – Norma Jensen National Council Rep – Rob Shepard

> Bottle Drive & Canadian Tire \$ By Les Dickson

If you cannot attend a meeting but would like to donate your Canadian Tire money please email me at <u>astrochem@sasktel.net</u>

LIGHT POLLUTION ABATEMENT WEBSITE AT: www.ras.sk.ca/lpc/lpc.htm Newsletter Editor – Kris Ohnander Copy & Collate – Les & Ellen Dickson Labels & Temps – Mark de Jong 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 material. Submissions should be sent by e-mail to the editor at <u>krisohn@gmail.com</u> in msword or text format. Images: any format, less than 30MB, sent by e-mail as attached files. **Deadline for submission of all articles for an upcoming issue is the first Friday of the month!** 

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# **RASC CALENDAR OF EVENTS**

December 11	RASC General Meeting Christmas Social	Alan Duffy
December 13/14	Geminid Meteor Shower	Larry Scott
January 13	Observers Group at Sleaford	Larry Scott
January 15	RASC General Meeting	Alan Duffy
February 10	Observers Group at Sleaford	Larry Scott
February 12	RASC General Meeting	Alan Duffy

For a complete list of club events, please visit: <u>http://www.usask.ca/rasc/activities.html</u>

# January RASC General Meeting

for all members and guests, Room 175 Physics Bldg University of Saskatchewan, on

*Monday, January* 15<sup>th</sup>, 2018 at 8:00PM

# Presented by Ron Waldron:

# Norwegian Astronomy Above the Arctic Circle

Last October, Ron Waldron spent two weeks as a Road Scholar exclusive instructor aboard the Kong Harold Cruise ship. The cruise took him up the west coast of Norway from latitude 62 degrees north to latitude 71 degrees north of the Arctic Circle. While on board, he gave ten one hour lectures, four on the northern lights and six on astronomy.

Weather conditions both on the cruise path and on the sun were cooperative and eight clear nights were had to view and photograph the aurora. Ron will give a digitally illustrated talk on his trip along with a five minute video of the northern lights as captured by colleague Alan Dyer who was on another ship at the same time. Ron is scheduled to repeat the cruise this February and then travel to Churchill, Manitoba for three weeks in March to give a similar program.

*Note: There will be an Executive Meeting at 7:00PM* 

SASKATOON SKIES

DECEMBER 2017

# Minutes of the November Meetings - Marcel Müller-Goldkuhle



## Minutes of the Executive Meeting, Nov 20, 2017

Attendees: Tim May, Darrel Chatfield, Les Dickson, Rick Huziak, Errol Frazer-Harrison, Ron Waldron, Norma Jensen, Tenho Toumi, Mark De Jong, Jim Gorkoff, Curtis Tuplin, Marcel Mueller-Goldkuhle

Meeting called to order by Tim May at 7:02 PM Approval of Oct 16 Executive Meeting Minutes: Moved by Ron, seconded by Mark, approved.

### **Reports:**

-	
Financial Report:	The Annual Financial Report was presented by Jim.
	Motion by Les to approve the Financial Report, seconded by Marcel, approved with all in favour.
Membership:	The club has currently 90 members.
Observers Group:	no update
Sleaford:	Snow Removal was done on Nov 19.
	Bees are in the north-east corner of the schoolhouse, Darrell is contacting a beekeeper.
SSSP:	First meeting for the 2018 SSSP on Nov 23, topics to be discussed are budgeting, volunteers, schedule.
Youth Club:	Next meeting on Nov 27, 2 potential new members No meeting will be held in Dec.
Newsletter:	Financial Report to be sent to Kris.

Events:	Dark Skies at Beaver Creek had about 500 visitors.
	Open House: About 18 members attended and 60-100 visitors showed up.
	The Christmas Potluck is planned for Dec 11 at 6:30PM.
Telescope Coord.:	10" Newtonian telescope was picked up from Beaver Flat, north of Swift Current; Scope was set up for photography and is now modified for visual observing; Errol handed a list out showing the accessories which came with the scope. Total (new) value of scope incl. accessories is about 6000\$. Errol suggests to rent the scope out for about 3 years, if the demand is too low it can be sold.
	The dome (height 10 ft, diam. 8 ft 6") has to be taken down by the Club, this is not required to be done before spring; Rob Sheppard is interested.
National:	Current topics are: Social Media (Media Committee has been initiated), Harassment Policy, Fundraising, Draft Guide for Governance was issued.
Certificates	Darrell accepts to be the contact person for people who apply for the Explore the Universe Certificate.
Old Business:	
Yahoo Forum:	No update.
Advertising:	No update.
Memorabilia:	No update.

Background Checks: No update.

## New Business:

Outreach Material	Jim distributed Star Charts and Moon Charts:
	Ron/Youth Club (100/100)
	Norma (100/100)
Elections:	The Chair of the SSSP Committee is considered as Executive member.

Meeting adjourned at 7:59 PM

## Minutes of the General Meeting, Nov 20, 2017

Meeting called to order by Tim May at 8:15 PM.

Tim gave an update about the topics of the Executive Meeting: Financial Report Sleaford Observatory Events Explore the Universe Certificate Christmas Potluck on Dec 11, 6:30PM

### **Elections**:

## Directors:

Rick Huziak, Norma Jensen, Tenho Tuomi, Ron Waldron, Les Dickson Election of the Slate of Directors: Motion by Jim, seconded by Mark, all in favour.

**Executive Members:** 

President	Alan Duffy
Vice President	Open
Secretary	Marcel Mueller-Goldkuhle
Treasurer	Norma Jensen
National Council Representative	Rob Sheppard

### Other Officers:

Newsletter	Kris Ohnander
Events Coordinator	Open, events to be assigned individually
	(Christmas Potluck: Norma & Darrell)
Sleaford Site Coordinator	Darrell Chatfield
<b>Observers Group Coordinator</b>	Larry Scott
Youth Astronomy Club	Errol Frazer-Harrison/Ron Waldron
Membership Coordinator	Mark de Jong
Coffee Supply Coordinator	Open
Meeting Room Coordinator	Open
Photographer/Archivist	George Charpentier
Telescope Coordinator	Errol Frazer-Harrison
Councillor at Large	Curtis Tuplin
SSSP Chair	Les Dickson

Election of the Officers & Executive Committee Members as nominated: Motion by Rick, seconded by Jim, all in favour.

Motion by Jim to engage an Auditor to audit the Financial Report, seconded by Norma, all in favour.

### **Presentations**:

Rick Huziak: New issues with Light Pollution in Saskatoon Ashley Stock: Detecting Supernova Neutrinos at SNOLAB Tenho Tuomi: My 42 Hour Eclipse Trip

Meeting adjourned at 9:30 PM

# Book Sale – Jim Gorkoff

Members should e-mail me at jorkoff@yahoo.ca if they want to buy any of these titles. They will be sold on a first come first serve basis. That means first to pay their money and pick up their book, not first to put in an order. The price includes applicable sales taxes. This is a going out of business final stock sale; so, sales are final and once the items are sold out they will not be reordered. These items will not be shipped. Arrangements will have to be made for pick up. Some of these items will make a good Christmas gift. Although none of the books are second hand, many are old and hard to otherwise find. This sale ends on 15 January 2018.

Name	Publisher	Quantity	Old Price	Sale Price
Night Sky Star Wheel	Sky Publishing	1	20.00	10.00
SkyWays New Edition	RASC	2	22.00	10.00
Beginners Observer's Guide	RASC	1	20.00	20.00
Night Sky Star Atlas	Firefly Books	2	20.00	5.00
Seeing In The Dark	Simon & Schuster	1	20.00	15.00
Pocket Sky Atlas	Sky Publishing	2	35.00	25.00
Sky & Tel Moon Map Laminated	Sky Publishing	1	12.00	10.00
Sky & Tel Moon Map Unlaminated	Sky Publishing	2	8.00	5.00
Sky & Tel Moon Map Mirror Unlaminated	Sky Publishing	2	8.00	5.00
Mars Observing Guide	Firefly Books	1	15.00	5.00
Moon Observing Guide	Firefly Books	1	15.00	5.00
Practical Astronomy	Firefly Books	3	15.00	5.00
Stargazing With A Telescope	Firefly Books	1	15.00	5.00
Sun Observers Guide	Firefly Books	1	15.00	5.00
Astronomy Dictionary	Firefly Books	1	15.00	5.00
Starwatch (Harrington)	Wiley	2	35.00	25.00
Saskatoon Stone		8	3.00	3.00

# **Observers Group** – Larry Scott

Our Observer's Group for November 18th was cancelled due to clouds. I was unable to get out to Sleaford for observing on any other nights as well. Although there is no scheduled Observer's Group for December, there is an excellent observing opportunity on December 13/14th with the return of the Geminid Meteor shower. There will be moonless evenings from December 8th to the 23rd and given decent skies I will try to get out to Sleaford on the weekend of the 22/23rd. Happy Holidays everyone.



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# **Observing Clubs and Certificates**

Join the Club! Observe all 110 Messier, 110 Finest NGC, 400 Herschel I or II, 140 Lunar, 154 Sky Gems or 35 Binocular objects, or Explore the Universe and earn great OBSERVING CERTIFICATES!

# MESSIER CLUB

**Certified at 110 Objects:** *R. Huziak, G. Sarty, S. Alexander, S. Ferguson, D. Chatfield, T. Tuomi, L. Scott, G. Charpentier, B. Johnson, L. Dickson, B.* 

Burlingham, Norma Jensen

-	
Ron Waldron	108
Wade Selvig	75
Marcel Müller-	54
Goldkuhle	
Wayne	43
Schlapkohl	
Ellen Dickson	34
Graham	9
Hartridge	

#### **Chatfield BINOCULAR CERTIFICATE Certified at 35 to 40 Objects:** *T. Tuomi, R. Huziak*

Jim Goodridge	12

#### FINEST NGC CLUB Certified at 110 Objects:

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

Larry Scott	110
Scott Alexander	97
Norma Jensen	83
Sandy Ferguson	23
George	13
Charpentier	

## **EXPLORE the UNIVERSE** Certified at 55 to 110 Objects:

T. Tuomi,	
Wayne	55
Schlapkohl	
Jim Goodridge	35

Isabel Williamson Lunar Observing Certificate Certified at 140 Objects: *T. Tuomi, N. Jensen* 

## HERSCHEL 400 CLUB

**Certified at 400 Objects:** 

R. Huziak, D. Chatfield, T. Tuomi

Gordon Sarty	251
Scott Alexander	117
Larry Scott	45
Sandy Ferguson	18

### **HERSCHEL 400-II CLUB**

Darrell	400
Chatfield	
Tenho Tuomi	378
Rick Huziak	246

#### LEVY DEEP-SKY GEMS Certified at 154 Objects:

Tenho Tuomi	150
Darrell	70
Chatfield	



The Messier, Finest NGC and David Levy's Deep-Sky Gems lists can be found in the *Observer's Handbook*. The Explore the Universe list is available on the National website.

On-line Messier and Finest NGC lists, charts and logbooks: <u>http://www.rasc.ca/observing</u>

On-line Herschel 400 List: http://www.astroloeague.org/al/obsclubs/herschel/hers400.html

Binocular List is at: https://www.usask.ca/rasc/Chatfield\_Binocular\_List.pdf "Isabel Williamson Lunar Observing Program Guide:

http://www.rasc.ca/sites/default/files/IWLOP2015.pdf

Program details can be found at: http://www.rasc.ca/williamson/index.shtm