

Event Horizon

June 1996

Volume 3 Issue 8

Why Astronomers Don't See UFOs

The actual answer is that astronomers do, but they are experienced observers and easily recognise the object and it is therefore no longer unidentified. Perhaps that is in a way the whole answer, but there is more to it. UFOs and alien abduction have become ingrained in the mind of the public. It started with a TV series called "Twilight Zone". An early episode

"My personal experiences got off to a particularly bad start because of seeing Plan 9 From Outer Space."

showed an alien which became the model on which Barney and Betty Hill based their description of alien abductors. Growing up in this period I received a full dose of UFO hysteria. This was the early "space age" and rocket, space travel, other planets, and a heavy fare of sci-fi was everywhere. This was especially true when you had a space and sci-fi crazed older brother. My personal experiences got off to a particularly bad start because of seeing Plan 9 From Outer Space. Two weeks of terrifying nightmares is something a seven year old does not forget easily. In this space age environment kids not only looked for UFOs but spent a lot of time trying to make them too. One particular favourite (don't try this kids, it is dangerous!) of my brother and his friends was the flying dry cleaning bag.

Dry cleaning bags are particularly light, large, and as a bonus they are also clear. The idea was to rig a suspended candle to burn in the centre of the open bottom of the bag as the bag was held erect. The bag was allowed to fill with hot air, becoming a hot air balloon. The sight of a light slowly drifting across the night sky was bound to trigger UFO sightings in those dark city night skies (there was little light pollution back then). That was the theory, and we knew others were successful, but we never got ours more than six inches (15 cm) off the ground. So whenever we heard of a UFO sighting, we never said "Oh WOW flying saucers and extra-terrestrials," but rather "Oh WOW how did they do it?"



Now lets get to the juicy stuff. Bob Botts was kind enough to lend me his UFO CD-ROM for several months. Thanks Bob for your infinite patience. Modern technology is wonderful. I now have access to movies, pictures, and sound of UFO sightings. Most

(Continued on page 4)

Algonquin Star Quest July 12-14, '96

Yes! It's finally been nailed down. We are scheduled to have use of the Algonquin Radio Observatory - ARO (a.k.a. the Algonquin Space Complex) during the above dates for the purpose of amateur astronomy and other compatible activities. Some members of my short-wave listening club may attend for that purpose since this site is also extremely 'radio quiet' - the SWL's equivalent of an excellent darksite.

There is a new moon in the

middle of the week that follows. I have, therefore, arranged that the weekend of July 19-20 be an alternate date if we get 'bumped' by some big research project needing the facilities more than we do. (read big corporate mining or oil customer with even bigger bucks wants to use 46 metre radiotelescope to find more ore/oil to make even bigger...) It's pretty unlikely that this would happen, but, we're better off having a contingency plan ready in case "ol'

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Editorial

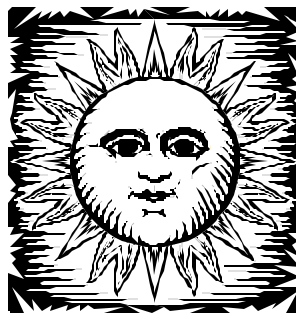
If the rain ever stops we will have lots of local viewing opportunities this summer. This month has our own Hamilton Amateur Astronomers Star Party. On page nine Ann Tekatch gives the details on this event which is only one week away! The next event, arranged by Tony Wallace, is a trip to Algonquin Park in July. I apologise for the number of pages this article, which starts on page one, had to be spread over but this issue was a difficult one to organize. In August we have Canada's number one star party - Starfest. The summer comes to a close with the Huronia Star Party in September which is hosted by the South Simcoe Amateur Astronomers. Also, we shouldn't forget the Binbrook observing sessions arranged by Charles Baetsen. Remember - you do NOT have to own a telescope to attend these events. You will find that everyone who owns a telescope will be happy to share the view.

I went to the trouble of getting permission to reprint some material from the Sky and Telescope WEB pages but thanks to everyone who has written articles this month there was no

need to resort to copying articles. So we have another issue filled with original material. I'm not complaining and I hope that this situation continues indefinitely.

There will be a summer issue and I have set the deadline of July 15 for article submissions. The deadline is normally set for one week before printing but this may get delayed due to nice weather. I rarely hear from anyone about the newsletter content so I assume that everyone is happy with the current format. Silence indicates agreement so unless I hear from you ...

Stewart Attlesey
stewart@io.org



Chair's Report

At last, summer is here and with it, star party season! There are several local star parties and you'll find information on them inside this month's Event Horizon.

There are no general meetings in July or August, but our junior group, HAJA, will continue to meet through the summer thanks to Rosa and Nina. Of course, observing at Binbrook Conservation Area or the Flying Tigers' field near York will continue as well. If you're interested in observing with your fellow HAA-ers, make sure you get your name and phone number on the observer list. Those on the list will be

called if an observing session is planned that evening (usually Friday or Saturday nights nearest new moon).

Finally, I'd like to thank Barb Wight and Brian Wice for representing us in the June 1st. Climbathon to help raise money for the Saltfleet High School observatory and Participation House. They both climbed 600 stairs and lived to brag about it. We're impressed!

Have a great summer, keep in touch and keep looking up!

Ann Tekatch
575-5433

HAMILTON AMATEUR ASTRONOMERS

Event Horizon is a publication of the Hamilton Amateur Astronomers (HAA).

The HAA is an amateur astronomy club dedicated to the promotion and enjoyment of astronomy for people of all ages and experience levels

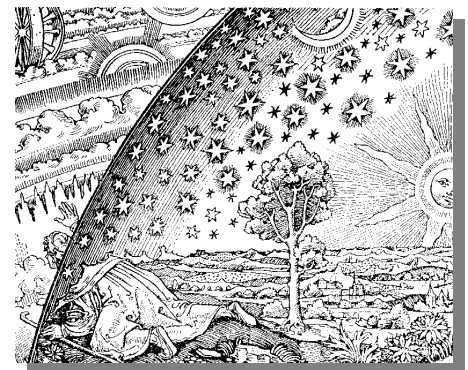
The cost of the subscription is included in the \$15 individual or \$20 family membership fee for the year. Event Horizon is published 10 times a year.

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Summer's Astrohighlights *(according to the Farmers' Almanac)*

Have you ever looked at the daily entries for each month in a Farmers' Almanac? The astronomical events are still listed in the same manner as they were when these almanacs were first published two centuries ago.

Some of the quaint star and constellation names are enormously amusing, especially in a day and age when most stellar objects are described by their letters, numbers or co-ordinates. Once you look at star names carefully and learn to pronounce them, they just roll off the tongue. It's nice to have this modern astronomical connection to such beautiful-sounding names from the ancient past.

Listed here is a selection of 'important' summer astroevents which you should be aware of, according to the Farmers' Almanac.

Rob Roy a5817394@mcmail.cis.mcmaster.ca

Date	Time	Event
June 5	12:39 am	Rasalhague crosses meridian
11	9:28 pm	Zubenelgenubi crosses meridian
12	3:10 am	Job's Coffin crosses meridian
20	9:23 pm	Summer Solstice
30	11:58 pm	"Blue" Moon
July 3		Dog Days begin
9	11:53 pm	"Teapot" crosses meridian
10	1:00 am	Berenices Hair sets
12	2:37 am	Moon nearly hides Venus - spectacular!
19	10:00 pm	Dragon's Head crosses meridian
21	12:45 am	Dschubba sets
Aug 10	2:06 am	Milk Maid's Dipper sets
11		Dog Days end - Meteorites... if clear tonight!
16	11:19 pm	Shaula sets
29	9:43 pm	Seven Sisters rise

Algonquin ...

(Continued from page 1)

Murphy" decides to make an appearance.

The site for our ASQ is on the shores of Lake Traverse deep in the north-eastern part of Algonquin Park. (45 deg 57' 31.3" N / 78 deg 57' 27.8" W to be precise!) The accommodations are centred in a comfortable, modern lodge originally built and equipped to house about 42 visiting scientists and support personnel. It is situated in a picturesque bay with wall to wall living & dining room windows overlooking the lake. There are two large multi-unit showers and toilet rooms and two private 4 piece bathrooms available. Food preparation revolves around a very well equipped 'commercial' kitchen that includes two

ranges, a microwave, 'industrial' fridges & freezers, pots, pans, assorted utensils, and tableware. Anything and everything one would need or desire to produce any gastronomic delight from a hot-dog to a full course Sunday dinner for 42 ravenous loggers! There is, however, no food provided beyond a few staples that are largely of a communal nature!!

Sooooo... everyone should bring enough supplies in a quantity and type to suit your taste and appetite and we can all fend for ourselves. I am suggesting that we deviate from this on Saturday evening when we all gather for a communal pot luck dinner. If you wish to participate in this, each adult should bring along a dish that would

(Continued on page 5)



Come spend an evening out of this world! The Hamilton Amateur Junior Astronomers (HAJA is a part of the Hamilton Amateur Astronomers) will be holding an activity night entitled: "Light: An Astronomical Tool"

The activity night for children aged 12 and under will be held in Room B148, Burke Science Building, McMaster University (the room beside the W. J. McCallion Planetarium), between 7:00 and 8:30 p.m. on Tuesday, June 18th, 1996.

Members and non-members welcome. For more information, phone Rosa Assalone (540-8793).

What's in a Name?

Our Club's name is informative, correct, serviceable. And yet ...

I was innocently perusing Sky Magazine's list of 78 Astronomy Clubs across Canada when suddenly ... I discovered our DEEPEST REAL PROBLEM! Canada, except for Quebec, is being held captive by an utter and total lack of imagination. Deux Solitudes Batman! Just regardez the tabular data:

For 100 points, which club names seem more imaginative?

I assume Zubenelakrab is a star I don't know about (there are sure an awful lot of those). Oh wait, looks like Zuben Akrabi (Claw of the Scorpion), Gamma Scorpii. And according to an unnamed source, Al Mucantar means "the one who has weight". This could refer to most known particles, but maybe it's

Galaxies or even political heavies in the club. Some things are just mysteries for now.

But returning to our DEEPEST PROBLEM, what can we do? We already got all those sweatshirts made up -and they look GREAT - so there's no turning back now. Maybe we could have amazing names for just our special groups, the Telescope Makers, Cosmologists, CCD Enthusiasts and so on?

Vancouver Centre /RASC	Zubenelakrab (Plessisville)
Regina Centre /RASC	Les Almucantars (Rouyn-Noranda)
Toronto Centre /RASC	Les Vagabonds du ciel de Lanaudiere
Hamilton Centre /RASC	Club d'astronomie Pegase
Hamilton Amateur Astronomers	Club d'astronomie Jupiter, etc ...

Any suggestions out there?
Newbie (actually Doug Black)



UFOs ...

(Continued from page 1)
pictures are just lights, but some such as the one shown here that I call hat & balloons, show some detail. This is from a 1954 home movie by Mr. John Sheets while on a camping trip at Lost Creek, California. The computer can be used to process the pictures in detail and bring out features that would normally not be seen. In this case as I

object did not look so obviously like a hat, a thread spool appears to have been attached to the top of it. UFO indeed!

There were two UFO sightings in the Hamilton area on March 18, 1975. Patric McCarthy photographed the UFO from an abandoned quarry in Waterdown at 1:30 p.m. that day. He described it as a massive circular object.

For those of you that still find UFOs absolutely fascinating, you could subscribe to the Canadian UFO Newsletter, 4534 Queen St., Unit 3, Niagara Falls, Ontario, Canada L2E 2L5.

The truth is out there.

Bill Tekatch (905) 575-5433
a7503934@mcmaster.cis.mcmaster.ca



followed the object I noticed that some lines came from the edges and the two dark objects at the bottom of the object. Then I realised that the dark objects were balloons held under a woman's large floppy brim hat. So that the

Another anonymous photographer took a picture of the object from near Hamilton. Processing of the image reveals two "legs" poking from the bottom centre of the object. My conclusion taking into account that both photographers pictures show the same skewed top, is that it is a kite or kite-balloon combination, and that both witnesses were working together. What do you think?

My friend Al pictured here catching forty winks leaning against a wall, concurs with me completely. He has been following the UFO thing for years and thinks that it's hooley.



Al

Algonquin ...

(Continued from page 3)

have portions enough for about 4-6 people. Don't ask (ASQ?) me "What course?" ...

Let's make it a REAL pot luck dinner!

There is NO electricity at the viewing site, which will be a few hundred metres from the lodge to avoid any lighting from activities at that building. If we are the only ones there (and we may be) we could institute a 'no lights' policy and view 'from our own backyard'. Nice thought, but, we won't know if it's possible 'till we arrive. Please leave your pets (and stereos!) at home. There are a number of red foxes

that have become accustomed to lodge living and will be seen on the lawns day or night. While still a little cautious, they are tame enough to eat from your hand if you are patient. My dog, Mieko, would definitely not stand for any of this nonsense! She'll be enjoying her weekend at home.

One should bring a sleeping bag or blankets and a pillowcase. Rooms are typically furnished with two twin beds with pillows and (I think...) a top sheet, a couple of dressers and chairs, and a closet in a manner akin to a motel room. There is a satellite receiver and TV/VCR setup in the communal living room as well as a console stereo, and get this!... a Celestron C8 on a Super Polaris mount

Did You Know That...

Due to their proper motions, stars can change constellations? The last occurred in 1992 when Rho Aquilae became a Delphinus star. The next constellation switch of a prominent star won't occur until the year 2400, when Gamma Caeli enters Columba.

Rob Roy

with finder. Just for fun!! (I'm sure we'll figure out some use for it while we're there)

"The accommodations are centred in a comfortable, modern lodge originally built and equipped to house about 42 visiting scientists and support personnel."

Perhaps the most valuable of facilities is the library. This is the largest collection of scientific material on astronomy I've come across - full of books, papers, journals, references, and yes, there are many years of Sky 'n' Tel and Astronomy magazines too! It's readily apparent that this was, at one time, Canada's primo astronomical field research facility. I swear, when you're alone and all is quiet in the library, you can still hear the debates, challenges, and audible truth seeking that formed the cornerstones of our knowledge of the cosmos today. They had to imagine, and then prove that same knowledge that we acquire by merely reading or viewing. All that has come to an end now here, as did research funding just prior to the silence. However, the beautifully dark skies and picturesque setting remain ours to experience and enjoy... for the moment!!

Directions:

ARO is located on Lake Traverse in the NE corner of Algonquin Park. Make your way to Pembroke on Hwy #17. Gas up opposite the Best Western, then proceed north on #17 about 8 more km until you see a sign for Petawawa. Turn left onto this road, which is County Rd. #26 (not right into Petawawa). Go only about 100 metres or so to the Achray Rd. (a.k.a. County Rd. #28) and turn right. Follow this road for 75 kilometres to ARO. After 7 or 8 km it becomes a gravel road but is wide and usually well graded. Speeds of 70 km per hr. are attainable but

watch out for moose, deer, elk, bear, and the dreaded logging trucks especially on curves and hills. Take this caution seriously, there are a LOT of these creatures about in this section of the park! Leave yourself 1 1/2 hours to cover this stretch of the journey! About 25 km in, you'll pass by the park entrance. As a courtesy, one of your group should stop here and let the officials know that you are a guest at the Observatory for the weekend. After another 50 km or so, you'll come upon a flashing amber light at ISTS's Algonquin Space Complex sign. Turn right to go to the lodge or left to go to the radiotelescope.

Kilometre markers along the Achray Rd. will let you know your progress. Be sure to fill up at Pembroke! The next gas is 150 km away (a.k.a. the place you just filled up at!!)

What else to bring:

In addition to the above food supplies, beverages, bedding, and, of course your astro-stuff, you'll need a towel, shampoo, soap, and personal items. If you plan to be awake at all during daytime, bring a bathing suit, and SUNSCREEN. I use #45, unless I can find higher! July tends to be pretty tame for bugs except for mosquitoes in the bush and for about

an hour after dusk. However, how go the rains, so go the bugs!! If Mother Nature sees fit she can conjure up a whole mess of blackflies (they're not nocturnal... phew!) and other aerial carnivores as late as October. Soooo... bring along a good repellent - something with "DEET" in it, and some "afterbite" lotion, just in case.. I hear that Mr. Murphy and Ma Nature are an item!

(NB: Skin So Soft is useless as a repellent!)

What else to do:

If you have a canoe, or similar

(Continued on page 8)



Small, but select, was the group gathered for the May meeting of the Hamilton Amateur Junior Astronomers. Perhaps it was the astonishingly fine weather which kept families outdoors (although since it was too light to observe until after the meeting, I've no idea WHAT they could have been doing!), but whatever the reason, only the most dedicated turned up to learn about Jupiter, Saturn and Uranus. Amongst the bunch, however, we had Miranda Botts, the namesake of the littlest of Uranus' five best-known moons - a very appropriate participant.

“The latest decision regarding the junior astronomers is that we will break with tradition and continue to run HAJA throughout the summer.”

The most noteworthy point about Tuesday's meeting was that it marked Rosa's debut as the official HAJA coordinator. After losing Raechel to London, Ontario (where she is no doubt hard at work initiating LAA - the London Amateur Astronomers), Rosa generously offered to take her place. She had a lot to live up to, but she did an excellent job. The meeting was great! Congrats, Rosa! The evening went off without a hitch and the children (and parents) present had a chance to learn about the cloud layers on Jupiter, helium precipitation in Saturn and the strange seasons on Uranus, as well as the edifying fact that molasses dissolves better in hot water than in cold.

The next meeting of HAJA will, I am sure, be another great success. The topic is 'Light: an Astronomical Tool' and the meeting is on June 18th at 7:00pm in McMaster's Burke Science Building, Room B148. Round up children in your neighbourhood and bring them along!

The latest decision regarding the junior astronomers is that we will break with tradition and continue to run HAJA throughout the summer. We have had solemn assurances from several parents that their children will attend these meetings (and the punishment will be severe if they back out) but we don't want to be disappointed by minimal attendance, so mark the third Tuesday of each month on the calendar and gather together some children to come and have some FUN!!

The dates and topics for the summer of '96 are as follows:

June 18th
'Light: an Astronomical Tool'

July 16th
'Supernovae: Explosions in Space'

August 20th
'Black Holes: The Monster at the Centre of the Galaxy'

Nina Snaith
u9207912@muss.cis.mcmaster.ca

What's Your I.O.?

Yell, another year is at a close for the summer. I've made my travel arrangements and will be returning home to visit the family. You know how it is. My IcePac which I received for Christmas should travel well for the trip. I hope it will work on IO.

1) *True. The interval between successive new moons is 29 1/2 days, and there are only 28 days in February - 29 in leap years - so that there may be no full moon or no new moon during the month.*

2) *False. Kohoutek's Comet,*

discovered on March 7, 1973 by Dr. Lubos Kohoutek from Hamburg Observatory, was expected to become brilliant, but failed to do so; it was not easy to see with the naked eye. It may do better at its next return, which is due around the year ad 75,000!

3) *True. The particles from the Sun cascade down into the Earth's upper air and cause the lovely glows. Because they are electrified, the particles are attracted to the magnetic poles, which is why aurorae are best seen from high latitudes - though it must be added that the whole process is rather more complicated than used to be thought.*

4) *It carried an X-ray telescope, UHURU was the first really successful X-ray satellite, and detected 160 discrete sources - many of them in our Galaxy, but also some in external systems.*

5) *Escape velocity is the initial velocity which would have to be given to a body escaping from the gravitational pull of a larger body. For the Earth it is 7 miles per second. Thus if a rocket (or any other object) is sent upward from the Earth at a speed of 7 Miles per second, it will never return; if it is given a lower initial velocity it will not be able to break free from the Earth's gravitational pull.*

6) *False. Forbidden lines are spectral lines which do not show up under normal terrestrial conditions, but can be seen in the spectra of some celestial objects, where conditions are very different.*

Enjoy your summer holidays and get in as much observing as you can. The nights are short, don't waste them. I'll see you in the fall with more tantalizing questions. Until then, take care of yourselves and keep asking questions.

Io, Keeper of the Flame
Jupiter Co-ordinator

Third Annual HAA Summer Star Party - June 21-23

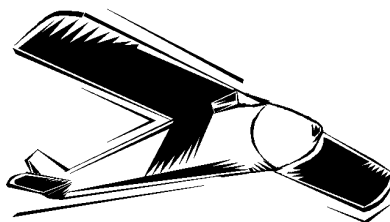
Once again, we'll be hosting a weekend of observing at the York Soaring Association's glider field near Arthur, Ontario. Weather permitting, we'll be observing from the glider runway on Friday and Saturday nights.

During the day, there are no formal plans. If it's clear and sunny, I expect there will be solar observing. We'll also be watching the planes, going for glider rides (\$35 each) or just hanging out and telling lies about the NGC objects we've seen!

"We'll also be watching the planes, going for glider rides (\$35 each) or just hanging out and telling lies about the NGC objects we've seen!"

The cost for camping is \$2. per night per site. There is no hydro available for camping or for powering telescopes. There are hot showers and

flush toilets. There are no cooking facilities at the field other than a fire pit. If you plan on using a fire to cook, make sure you bring firewood and a cooking grill.



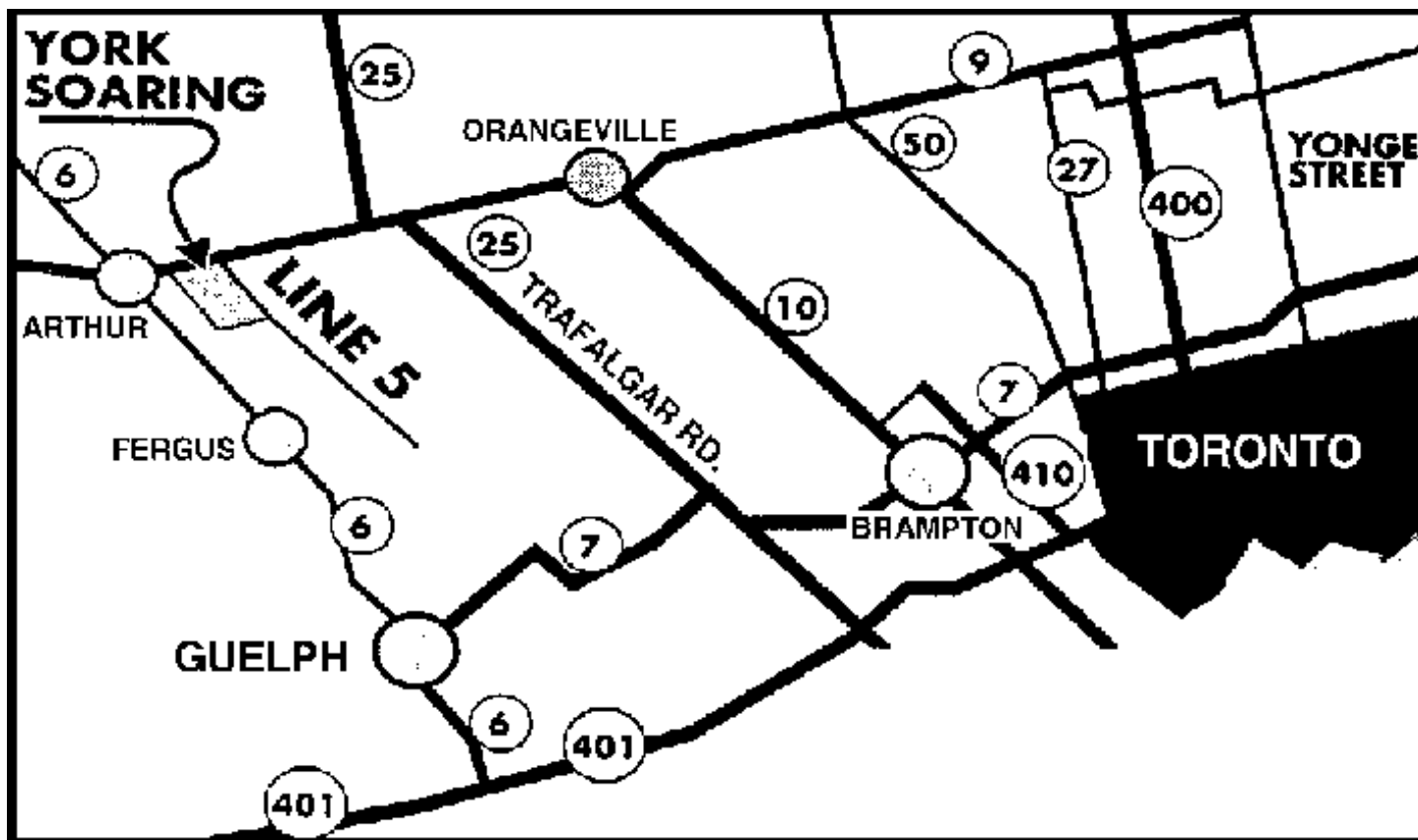
If you don't like camping, but want to join us for evening observing, there's no charge to enter the glider field. It's only 1.5 hours to the York Soaring Association from Hamilton.

To reach the York Soaring Association from Hamilton: head north on highway #6 past Guelph and

Turn right (east) onto highway #9 just before Arthur. Turn right (south) onto Concession 5-6 Road. The York Soaring Association is on Concession 5-6 Road. Their laneway (which is quite long) makes a right turn at an old farm house & barn. Before you get to these buildings and the turn, there is an old garage on your left. The driveway into the camping area is along the east side of this garage.

Our star party is weather-dependent. If the weekend forecast for June 21-23 is lousy, (i.e. rain is predicted for the whole weekend), the star party will, of course, be cancelled. The decision to cancel will be made at 3:00 p.m. Friday afternoon. Call me if you want to be sure.

Hope to see everyone there!
Ann Tekatch 575-5433



Algonquin ...

(Continued from page 5)

craft, you'll kick yourself for not bringing it when you see the next bit! ALL of the Great Lakes (then Lake Algonquin, and far bigger!) used to flow through the "Fossmill Outlet" and cut the 300 foot deep canyon through which flows the present day Baron

“There's the 150 ft. diameter radiotelescope dish as well as other smaller, but, still large dish antennas.”

River. It is now calm, deep and one of the most unique, beautiful, and inspiring places in the Park. It's an easy access and a half day's meander through the canyon to the next access point. (add an hour for a picnic!) Both accesses are on the Achray Rd. For the confirmed landlubber, there's an easy trail to hike along the highest and most spectacular section. Heck! It's so impressive, that when the canoeists have done their trip... they hike it too!

Right around the complex, there are neat places to explore too. There's the 150 ft. diameter radiotelescope dish as well as other smaller, but, still large dish antennas . The 32 dish solar array is a particularly interesting piece of "astrotech" to wander through.

If that's not your cup o' tea, then just relax with a glass of wine and read your favourite sci-fi or play munchies with the foxes. You'll love it!

For Sale



Olympus Zuiko lens, 85mm, f/2 in excellent condition \$265 CDN shipped to you (these usually sell for \$275 US!)

For details call Rob Roy at (905)692-3245, or e-mail a5817394@mcmaster.ca

Since this is the first time for this event, I'm looking forward to 'casing the joint' with fellow amateur astronomers in tow. I've looked the site over by myself and have a few ideas as to what viewing arrangements would work best, but then, I'm a relative newcomer to this madness. I would welcome your suggestions and opinions. If we're able to get things work out well, I could see this becoming an annual pilgrimage.

How to register:

Costs for use of the facility are \$24 per person per night to cover accommodations and, while everyone is expected to keep things reasonably tidy, it will also go to cover the expenses my wife and I encounter in clean-ups before and after our event.

Please register by June 21,'96 so that ISTS can be notified of attendance. Registration is limited to 40 people maximum. Complete the form below and mail it to:

ASQ 96
c/o 196 Homewood Ave.,
Hamilton, ON, Canada,
L8P-2M5

For more details please contact Tony Wallace @:

residence
(905) 526-6154 evenings & wkends
business
(905) 521-2100, x4416 weekdays

FAX
(905) 521-4964

e-mail
wallacet@fhs.mcmaster.ca
wallacet@ihis.cmh.on.ca
wallacet@fhs.csu.mcmaster.ca



----- Detach and mail -----

Name: _____

Street: _____

Apt/unit: _____

City: _____ Prov/State: _____

Country: _____ Postal/Zip Code: _____

Tel: (____) _____ - _____ FAX:(____) _____ - _____

e-mail address: _____ @ _____

#in party _____ X # of nights _____ X \$24 Cdn/\$20 US per night = \$ _____

Please remit total amount or 50% deposit in cheque or Money order (do not send cash) by June 21, '96 to:

ASQ 96, c/o 196 Homewood Ave., Hamilton, ON, Canada, L8P-2M5

July/August Night Sky

Congratulations to Nina Snaith!

I received a forwarded message announcing that the HAA's very own Nina Snaith has won the Governor General's Medal as the top graduating student at McMaster.

I'm sure you'll all join me in congratulating Nina and wishing her continued success in her studies!

Way to go, Nina. You make us proud to know you!

Ann Tekatch



CALENDAR OF

- ◆ Sat. June 15 7:00pm **COLLIMATION WORKSHOP** at Binbrook Conservation Area. Contact Les Nagy lnagy@netaccess.on.ca or Charles Baetsen, 524-0148 or charlesb@abelcomputers.com for more details.
- ◆ Tue. June 18, 1996 7:00 PM **HAMILTON AMATEUR JUNIOR ASTRONOMERS** - Mac Burke Science Building, Rm B148 (beside the planetarium) The topic will be "Light: An Astronomical Tool."
- ◆ June 21, 22 and 23 **HAMILTON AMATEUR ASTRONOMERS.STAR PARTY** - York Soaring Association airfield near Arthur, Ontario. Contact Ann Tekatch for more details
- ◆ July 12, 13, 19 or 20 9:00 PM **BINBROOK OBSERVING SESSION** - On the first clear date. Contact Charles Baetsen (524-0148 or charlesb@abelcomputers.com) for more details. For more information contact Rosa Assalone at 540-8793
- ◆ Mon. July 15, 1996 11:59 PM **EVENT HORIZON DEADLINE** - Please submit your articles and pictures to Stewart Attlesey, stewart@io.org or modem (905)827-9105 or snail mail to 1317 Mapleridge Cres., Oakville, L6M 2G8
- ◆ Tue. July 16, 1996 7:00 PM **HAMILTON AMATEUR JUNIOR ASTRONOMERS** - Mac Burke Science Building, Rm B148 (beside the planetarium) The topic will be "Supernovae: Explosions in Space." For more information contact Rosa Assalone at 540-8793
- ◆ August 9-11 **STARFEST** - Held at River Place near Mount Forest, Ontario
WEBSITE: <http://www.unicom.org/~nyaa/starfest/starfest.htm>
CONTACT: Andreas Gada, MAIN SPEAKERS: Claude Nicollier (an astronaut with the ESA), Terence Dickinson, Jack Newton and Don Parker
- ◆ August 9-11 **STELLAFANE** - North America's oldest starparty. Held in Springville, VT.
WEBSITE: <http://stellafane.com/~stell/stelfane.htm> CONTACT: Tom Spirock (tjs2481@megahertz.njit.edu) MAIN SPEAKER: John Dobson (creator of the famous Dobsonian mount) will be giving a talk this year!
- ◆ August 16 or 17 9:00 PM **BINBROOK OBSERVING SESSION** - On the first clear date. Contact Charles Baetsen (524-0148 or charlesb@abelcomputers.com) for more details.
- ◆ Tue. August 20, 1996 7:00 PM **HAMILTON AMATEUR JUNIOR ASTRONOMERS** - Mac Burke Science Building, Rm B148 (beside the planetarium) The topic will be "Black Holes: The Monster in the Centre of the Galaxy." For more information contact Rosa Assalone at 540-8793