



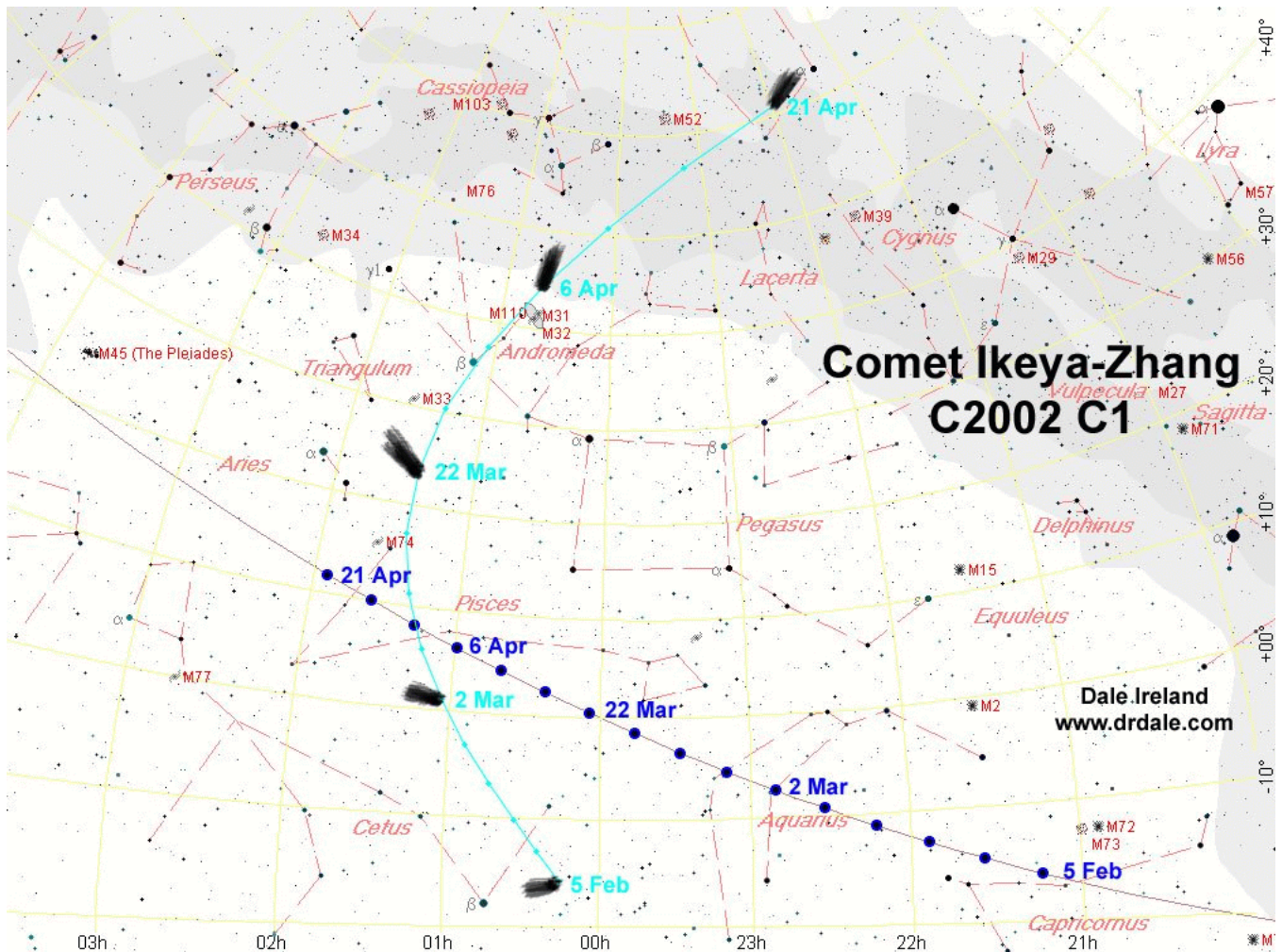
Regulus



The Newsletter of the RASC Kingston Centre

2002 March-April

1961-2001 - 40 Years of Astronomy in Kingston



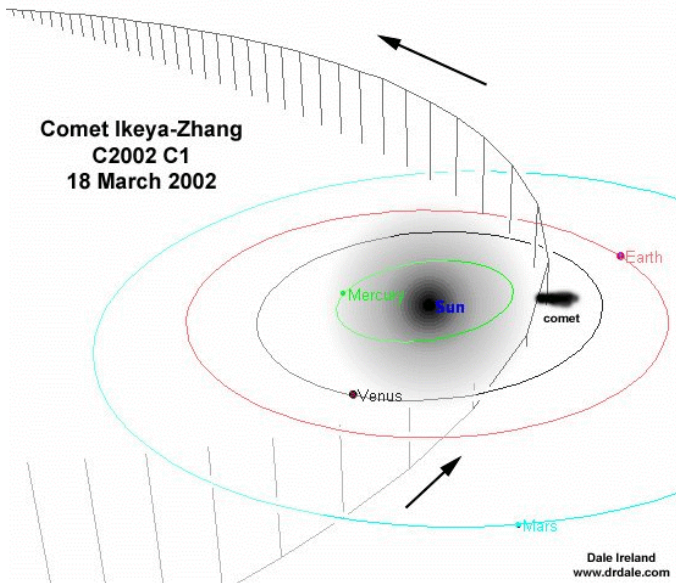
COMET IKEYA-ZHANG, C/2002 C1

The 9th-magnitude comet spotted last week in the constellation Cetus should continue to brighten as it approaches the Sun. In early March, Comet Ikeya-Zhang could be 5th or even 4th magnitude, but it will then be very low in the western evening sky after sunset and difficult to locate. After mid-March the comet skirts north of the Sun and enters the predawn sky, where strong moonlight will hamper observations. Prospects get better during April as it draws away from the

Sun and makes its way across Cygnus, but by then the comet will have started to fade.

That's the upshot of the preliminary orbital elements calculated by Brian G. Marsden and published on IAU Circular 7813. The comet is expected to reach perihelion on March 8th at 0.49 astronomical unit from the Sun, which puts it midway between the orbits of Venus and Mercury.

The ephemeris below, based on Marsden's elements, gives the comet's coordinates at 0h



Universal Time on selected dates along with its distance from the Earth (Delta) and Sun (r) in astronomical units, elongation from the Sun, predicted magnitude, and constellation. Since these computations are based on a very short observation interval, don't be surprised if the comet drifts off a bit after a few weeks. But the ephemeris should still give a fair idea of how the apparition will unfold.

COMET IKEYA-ZHANG, C/2002 C1

2002 Const	RA (2000) Oh UT	Dec h m	Delta o ' "	r au	Elong au	Mag o	
Feb 1	0 08.3	-17 50	1.335	0.951	45	8.9	Cet
Feb 4	0 13.2	-16 22	1.293	0.899	44	8.6	Cet
Feb 7	0 18.3	-14 46	1.249	0.847	42	8.3	Cet
Feb 10	0 23.5	-13 04	1.202	0.796	41	7.9	Cet
Feb 13	0 28.7	-11 13	1.153	0.746	40	7.5	Cet
Feb 16	0 33.8	-09 12	1.101	0.698	38	7.1	Cet
Feb 19	0 38.7	-07 01	1.046	0.651	37	6.7	Cet
Feb 22	0 43.2	-04 36	0.988	0.608	36	6.3	Cet
Feb 25	0 46.9	-01 58	0.929	0.570	34	5.9	Cet
Feb 28	0 49.4	+00 57	0.868	0.537	33	5.5	Cet
Mar 3	0 50.2	+04 09	0.806	0.512	31	5.1	Psc
Mar 6	0 48.7	+07 38	0.746	0.496	29	4.8	Psc
Mar 9	0 44.1	+11 21	0.689	0.491	27	4.6	Psc
Mar 12	0 35.9	+15 14	0.638	0.497	25	4.5	Psc
Mar 15	0 23.8	+19 09	0.594	0.513	24	4.5	Psc
Mar 18	0 07.9	+22 56	0.559	0.539	24	4.6	Peg
Mar 21	23 48.5	+26 25	0.532	0.572	26	4.7	Peg
Mar 24	23 26.4	+29 27	0.513	0.611	30	4.9	Peg
Mar 27	23 02.6	+31 56	0.501	0.654	35	5.2	Peg

Mar 30	22 38.0	+33 52	0.494	0.700	40	5.4	Peg
Apr 2	22 13.3	+35 15	0.492	0.749	46	5.7	Peg
Apr 5	21 49.3	+36 09	0.493	0.799	52	6.0	Cyg
Apr 8	21 26.1	+36 41	0.497	0.850	58	6.3	Cyg
Apr 11	21 03.9	+36 52	0.503	0.902	64	6.6	Cyg
Apr 14	20 42.7	+36 48	0.510	0.954	70	6.8	Cyg
Apr 17	20 22.5	+36 31	0.519	1.006	75	7.1	Cyg
Apr 20	20 03.1	+36 02	0.528	1.058	81	7.4	Cyg
Apr 23	19 44.6	+35 23	0.539	1.110	86	7.6	Cyg
Apr 26	19 26.8	+34 34	0.551	1.161	92	7.9	Cyg
Apr 29	19 09.8	+33 37	0.564	1.213	97	8.1	Lyr
May 2	18 53.5	+32 32	0.579	1.263	102	8.3	Lyr

Countdown to Montreal Centre's GA2002

by Denis Legacey

On the 17th, 18th and 19th of May, in less than four months time, RASCals from across Canada will be descending onto the Montreal scene to attend the RASC's next general assembly. In fact it is the first GA being held in Montreal since the very first one was held here more than forty years ago, way back in 1960!



During the final weeks of 2001 a few dedicated people were very busy installing the online registration and information system for the centre's website and expunging its last bugs. The site is expected to go public in a few days and should be live by the time this article reaches the press. Once operational, it will be directly accessible from the home page of the Montreal Centre's website simply by clicking on the GA2002 logo. The Montreal centre wishes to extend its thanks and appreciation to the London Centre for providing the web site software package it used for its 2001 GA last year.

Preparation activity picked up noticeably once the holiday season ended. Final arrangements were secured for the expected accommodations & meals at McGill's Royal Victoria College (RVC), for the lecture theatre in McGill's Samuel Bronfman Management Building (a 5-minute walk from RVC), and for the banquet in the Omni Hotel

across the street from the Bronfman building. That means that everything will be centrally located around McGill's lower campus with a minimum of walking. The single most arduous task will be the 10-minute trek up University street to the Isabel K. Williamson observatory, directly behind Molson stadium. This is where the Montreal Centre plans to hold a nightly hospitality suite. The GA committee wishes to especially thank one of our major sponsors McGill University for helping to make this all possible.

The GA2002 committee is very excited about four great speakers it has lined up. They are, in alphabetical order: Brent Archinal, one time astronomer at the US Naval Observatory, now working in Arizona for the US Geological Survey on high resolution mapping of proposed Mars 2003 landing sites; Paul Hodge, currently professor of Astronomy at the University of Washington, author of over 400 scientific articles and 17 books and editor of the *Astronomical Journal* for the AAS; David Levy, comet hunter extraordinaire, editor and author of 29 books, contributing editor of *Sky & Telescope*, and co-discoverer of the infamous comet Shoemaker-Levy 9; and Dr. Jaymie Matthews, associate professor in the department of physics and astronomy at the University of British Columbia, stellar seismologist, and Principal Investigator (PI) on the MOST project (Microvariability and Oscillation of STars). His "Humble Space Telescope", Canada's first space telescope, is due to be launched this coming October.

GA attendees and/or their companions will be free to walk and shop above ground in the downtown area, which is also only a 5-minute walk from the McGill campus. If the weather does not cooperate or even if it does, they can experience eighteen miles (yes 18!) of underground-city malls, shops, fast-food courts, boutiques, and bars and restaurants that Montreal is famous for. If downtown shopping is out, there will be plenty of other distractions including the Biodome, the Insectarium, Old Montreal, the Planetarium, the Botanical Gardens and many others. For the truly smitten there's also the Mont Megantic observatory and Astrolab if you don't mind a two and a half hour drive to get there.

The GA will be offering an early registration of \$95 (a saving of \$15) for attendees who register before March 15. So help yourself and us out by registering early. This should help make things run a lot smoother for the organizing committee and ensure a happy and memorable GA for everyone involved.

See you there.

Submissions from Members

"EWE-TOPIA"

by Ken Kingdon

Each year after StarFest, instead of heading back to Kingston, I drive north-east toward Midland to enjoy the dark skies at a sheep farm called "Ewe-topia". This farm is owned by my friends, Ken & Gayle Thompson. Ken's mother, Lillian Thompson, lives there in her own premises.

Annually, the week I spend at "Ewe-topia" is always a high-light for me. I love the freedom to just leave my scope set up in a field at the end of each observing session without having to pack it away each morning. I get a few wonderful nights under good dark skies, and as dawn approaches, I leave my scope and walk a short distance to enjoy the sensation of a swim in their heated pool followed by a hot-tub session. Then, at dawn its off to bed for any amount of time that I want. Coupled with the good company, Gayle's excellent cooking, gardens full of colourful flowers and song birds, the time in the countryside away from suburbia, an unhurried schedule... well, let's just say it all really is Utopia.

Another of my joys each year is the company of Ken Thompson's mother Lillian, who stays with me at the eyepiece far into the night. It makes my heart and mind accelerate seeing Lillian climb the step-ladder to the eyepiece for a look; afterall, Lillian Thompson is 89 years young (birthdate: Jan 27, 1913).

She is always thrilled with the fine objects that I show her in my 12.5 inch scope. This past summer, while viewing objects along the Milky Way, I stumbled onto the wonderful open cluster M11. Upon showing Lillian this object she was overjoyed and said: "That is the most beautiful thing that I have ever seen in my life!" Her knowledge of life, nature, and astronomy is very high indeed. Just like all astronomers, Lillian also realizes that examining the cosmos is a cerebral pastime... fun for the mind. Her expression of joy upon seeing M11 caused me to have a second look, and I noted that she is right on - M11 is indeed awesome.

Pleased by her observation of M11, she later sent me a copy of a poem called ONE ATOM that she wrote. This poem demonstrates a LOT of knowledge, and confirms to me that learning can be an enjoyable life-long pursuit. I'd like to share this poem, as it does bring to the foreground some interesting thoughts about life and astronomy.

Here is Lillian Thompson's poem...

ONE ATOM

**From stardust
stars and galaxies are born.**

**Stars die,
Galaxies collide,
Blackholes devour galaxies...
Yet each gives birth to more.**

**From the heavens to the core of the earth
all Nature struggles to live.**

**Weather, plants, insects,
sea creatures, mammals, Man --
all are Friend and Foe.**

**Sun, shade, flood, drought --
all life adapts or dies.**

**Insects pollinate AND destroy,
Sea life feeds on its own,
Mammals are predator AND prey.**

**And what is Man?
He is the Great Mammal --
The Great Exploiter of ALL.**

**Yet
each unit fills a need
and friend and foe are bound together
to form one cohesive whole.**

**But there is warring within --
the lion does not lie down with the lamb,
yet there is hope
for we are in constant change, evolving --
an atom of the Cosmos,
a Cosmos that is forever evolving.**

(permission to re-copy this poem is granted, provided that credit is given to the author Lillian Thompson)

**FOR PUBLICATION FEBRUARY 14, 2002
SKEPTICS Quinte set to go**

SKEPTICS Quinte is set to go, says Bill Broderick, chair of the new group which aims to be a "voice for rationality" in the Quinte area.

The first meeting of the group will be held on Thursday, February 28, 7:30 p.m., in Room P-21 of the Pioneer Building, Loyalist College, Broderick says. There'll be displays on the paranormal and a presentation on the "New Age" healing process known as "Therapeutic

Touch," which is supposed to be a "scientific adaptation" of the laying-on of hands.

TT, as it is called, was for all practical purposes effectively disproven in 1996-97 by Emily Rosa, a 9-year old Colorado schoolgirl, who got 21 experienced practitioners of TT to participate in an experiment to see if they could detect her "energy field." They failed.

"Detection of the so-called 'human energy field' is central to how TT is supposed to work," says Broderick. "Out of 280 trials, these experienced practitioners were correct only 123 times. That's only 44 percent! If they can't detect the energy field," he asks, "how can they do what they say they do and determine the areas where energy is needed and direct it accordingly?"

Only one practitioner of TT to date, according to Broderick, has accepted the challenge of the James Randi Educational Foundation, another skeptical group, which offers a prize of one million dollars to anyone who can prove or demonstrate a paranormal claim. That person also failed.

"We're certainly justified in remaining skeptical of TT," Broderick asserts.

The idea behind skeptics groups, according to Broderick, is the promotion of a more critical way of thinking about things.

"In recent times," he says, "we have seen the rise of a lot of illogical, unscientific, and even magical nonsense, some of which has become almost "mainstream wisdom."

One example, he claims, is the idea that we are entering a "New Age," the so-called "Age of Aquarius," when new truths will be revealed to us and everything will be better.

"Unfortunately," he says wryly, "the new age promises so far to be no improvement on the old age, if such social problems as continuing poverty, child labour, Walkerton and tainted water scandals, wars in various parts of the world, and the events of September 11 are taken into account.

"In any case," he continues, "there is absolutely no basis in rational thinking for supposing that the turning of a century or a millennium, or the entering of the sun into a new zodiacal sign, has any significance whatsoever in the affairs of men."

The new group will be a chapter of the Toronto-based Ontario Skeptics Society for Critical Inquiry, Broderick says, which is linked also with the Committee for the Scientific Investigation of Claims of the Paranormal (CSICOP). Members will receive news-letters keeping

them up-to-date on happenings and issues, will be able to attend meetings and events.

The "Objectives" of the group, Broderick explains, are to: "Develop and improve our critical thinking skills . . . and to alert educators, the public and the media to the dangers of uncritical acceptance of pseudoscientific and paranormal claims," and lastly "to promote good science in order to achieve a better understanding of our world and ourselves."

"Everyone is invited," Broderick says. "In fact, we're going to have a party. We may challenge some of your pet assumptions but I promise you won't be bored."

For information:--

WILLIAM BRODERICK

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Phone (613) xxx-xxxx -- E-mail <broderic@ kos. net >

Astronomy Week 2002 April 15-21

By Kim Hay-Astronomy day Coordinator

Everything is a go for this year's Astronomy Week Celebrations. We will start the week with Solar Observing at noon, and evening observing. Both will be done at Murney Tower location on King St. If you would like to help out and set up your own telescope, or use one of the Centre's scopes, please contact Tom Dean, Observing Chair.

Our week's festivities will culminate with our Mall Display on Saturday April 20, starting at 9:00 am and continuing all day until 6:00 p.m. We will have table displays, posters, on hands work shops, daytime observing on the sidewalk, equipment set up and a chance to see The Star Lab, that is operated by Theodore Micholous of the Gemini Space . If anyone would like to help out at this event, or have something that you would like to

display, please contact me at kimhay@ kingston. net subject Astroday.

Come out and enjoy the hobby of Astronomy with others, we will all have fun.

On a side note on May 2, 2002 it is Space Day and Queen's University is going to help us celebrate by holding an observing session with the Queen's Telescope. More information to follow.

Plea for Old Astronomical Calendars

If you would like to help out in a small way for any or our day events, please save your old RASC or Astronomy related calendars, as we can use the pictures for teachers and kids you would like pictures. Please bring them to the meetings and give them to me, Kim Hay (Public Relations)

Editor's Corner

by Kevin Kell

An editors work is never done... wow is it that time for another issue already? I will say that the last few months have been a totally non-observing yet very busy time. I am pleased to announce that I am giving up my living-in-light-pollution ways and moving out of the City of Kingston in April. The next issue of Regulus will be produced in Dark-Sky-Country (or as reasonably dark as it can get)... but it should be good for a lot more observing reports from yours truly (and anyone else I can talk into coming out to observe) and a lot more astrophotos! After setting up the BBQ and hot tub, the land will be cleared for an observatory! That will be documented step by step and published in a multi-part article here over the next year or so.



In Honour of the Skeptics Quinte...

Messier Hunters

We have 12 members who have completed the list to date. (Names at

<http://members.kingston.net/rasc/messierclub.htm>)

Name	old status	recent additions	Current Totals
Tom Dean	36	0	36
Laura Gagne	65	0	65
Peggy Hurley	55	0	55
Kevin Kell	70		70
Kim Hay	17	0	17
Vic Smida	110	0	110
Fred Werthman	50	0	50
Hank Bartlett	0	0	0

Our last few **Public Observing Sessions** have been washouts!

Tuesday January 15th was snowed out

Tuesday February 19th was clouded out.

See the back page calendar for future sessions.

Kingston Centre Membership Information

Current Membership Total of the Kingston Centre (as of Jan 31, 2002): 148

Treasurer's Corner

John Hurley

And for item we sell Centre members on Centre produced material you get a 20% discount!

Item	Regular price (member price)
Books	
Expanding Their Universe Grade 9 (ETU)	\$15 (\$12)
Worlds to Discover Grade 6 (WTD)	\$15 (\$12)
Careers in Space (CiS)	\$5 (\$4)
Misc	
RASC-KC pins	\$6 (\$4.80)
Slide Set #1 (40 slides)	\$75 (\$60)
Slide Set #2 (40 slides)	\$75 (\$60)
Slide Set #3 (20 slides)	\$35 (\$28)
Grade 9 Combo #1 (ETU9, Slide Set #1 or #2, CiS)	\$90 (\$70)
Grade 9 Combo #1 (ETU9, Slide Sets #1, CiS)	\$160 (\$125)
Grade 6 Combo #1 (WTD, Slide Set #3, CiS)	

RASC2002 Calendars	\$50 (\$40)
Beginners Observing Guides	\$15
Observers Handbook 2002	\$22
Memberships	
Regular 1 Year	\$49
Youth (under 21) 1 Year	\$27.50

Orders must be prepaid by cheque or by Institutional Purchase Order. You can email rascexec@cliff.path.queensu.ca or see our online catalog at

<http://members.kingston.net/rasc/educate.htm> or mail the order to PO Box 1793 Kingston Ontario K7L 5J6 Canada

Light Pollution Abatement

Residential Lighting This example shows how easy and inexpensive it can be to proactively improve the outdoor lighting on your property. Notice how much brighter the stairs and ground appear on the right. This occurred because 30% more illuminance reaches these areas simply by adding a shield! The ground illuminance measured 1.0 footcandles with a bare bulb and 1.3 footcandles after shielding was applied.

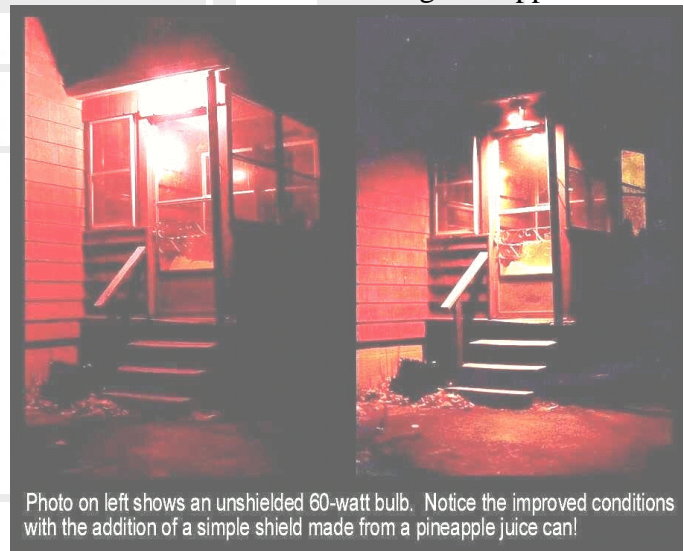


Photo on left shows an unshielded 60-watt bulb. Notice the improved conditions with the addition of a simple shield made from a pineapple juice can!

This is a net gain of 30%, which is the typical result of what one can expect after adding proper shielding. Effectively, 60-watt lamp can now be swapped for a 40-watt lamp and still get 1.0 footcandles of illuminance on the ground with no loss in visual performance. The resulting

illuminance reading is 50% higher than the minimum recommended illuminance specified in the IESNA RP-33-99 "Lighting for Exterior Environments".

Wrap Up from Jump Team- Land 'O'Lakes

By Kim Hay

On January 28, 2002 I attended the wrap up meeting which included the report from the Jump Team for the Land 'O' Lakes Tourist Association.

In December the Jump Team, who included Jill Vandal, The Tourism Company, Robin Tapley, Nature Trails, Julie Burch, Rural Development, Larry Tilling, TD Canada Trust, and Lou O'Hara, Ministry of Tourism, Culture and Recreation, toured the whole Land 'O' Lakes region. This consisted of visiting over 14 different sites and met up to 75 people in a 600 km area over 2 days.

Their report showed up to 3 main areas to concentrate for Tourism, 1) Birding, 2) Hiking, and 3) self-guided tours. The 4th area, was a dark sky preserve. This is very encouraging. Though the emphasis is on the Nature aspect, we as a Centre can work with the local Bed and Breakfasts to provide education and star party nights for those interested. Many people are already interested in the idea; we now have to act upon it.

The report is available, and a listing of all participants is coming through the mail shortly. It is now up to us, our Centre, and its members and volunteers, to help and educate people on the Night Sky and its beauty, and also the effects of ineffective lighting and how to improve their lighting and still maintain the effectiveness they need.

Notes from the Secretary

Jan 11, 2002, Regular Meeting of the Kingston Centre

The meeting opened with Tom presenting his selection of highlights for **observing this month**. John gave a review of the books and presented a list of members for voting in that has been growing over the last few months, **Carole Adlington, Wayne Harris, Leslie Harris, Gerald Miller and transfer to our centre of Allan Shimmin**, Paul seconded and all were officially welcomed to the centre. Paul reported that we **would move the March meeting to the 15th** to accommodate the speaker Rocky Persaud who will present "Mars on Earth". Kevin gave us the 3rd Friday in Feb (Feb 15) as a **Newsletter deadline**, and announced that the secure site password would be on page 10. Peggy asked if there was any new ideas about the de-coupling issue and there were no comments. Peggy will attend **the National Council** meeting this month.

Doug reports that the cell for the **24 inch** is nearly complete and the St. Lawrence portion of the driver assembly will be ready in April. No more figuring will be done until assembly can be achieved and some testing done. Some areas are hard to test in the shop. Mechanical bearings need to be complete before the drive is hooked

NEWT

By E. Kliptik

2002



up. Tom is looking for **dark site volunteers** for the members observing sessions, Feb 16, Mar 16, April 6. Next meeting Tom will have a sign up sheet for the observing sessions around Astro Day. Jan continues with the **CCD sessions** on the 3rd Saturday of the Month and hinted that a member may be ready to begin construction of a camera soon. Laura has the second edition of **ETU** on the go. Kim has set the final **time and place for Astro Day** and the display will be at the Frontenac Mall, Saturday April 20, Observing April 15-21, plenty of early advertising is planned. Space Day is also May 2nd and the exec will try to work something up to do that day. Dave continues to bring a selection of fine books from the **Library** to meetings. Kevin encourages readers to review books for the Regulus to promote the library. Hank ran the draw with his donated wine and 50/50 arrangement Near Miss White was won by Peggy and Don won the draw.

There was a short break and some short presentations began. **Laura** talked about the emergence of Earth as a sphere in the mind of man. **Steve** discussed his thoughts on observatory site choices. **Doug** gave a presentation about the Christmas star. **Ken** gave an observing report that emphasized some often neglected gems. **Paul** closed the meeting with a letter of thanks from David Levy for the Kingston Centre's presentation to the National Exec reminding them of his observing record. The meeting was then adjourned.

KC-RASC Regular Meeting February 8, 2002

Paul called the meeting to order at 19:38, with a round of reports.

Peggy called everyone's attention to a notice of a scope and dome (?) for sale in Smith's Falls. Dieter made a request for volunteers to do some observing assisting with his Grade 6 enrichment program. Sessions will be held at Lemoine's Point Feb. 19-21st, 19:00 to 20:30.

Kevin gave February 22 as the deadline for the next issue of Regulus.

Kim reported on the Land O Lakes tourism meeting and her other LPA activities. She is now attempting to obtain lighting samples for display. On the Astronomy Day front Kim has secured Theo and his starlab as part of our display.

John gave a brief financial update and reminded people to participate in the Astronomy/Sky and Tel discounts when they subscribe.

Peggy's National Council report included highlights such as a call for photos for the RASC Calendar, GA registration packages, and yes, decoupling will go to a vote at the GA, so remember to use your proxy form.

Tom announced that the March 22 members observing will be hosted by Tessa with a rain date of March 23.

There will be a go/no go message on the website for this.

Volunteers for public observing for Astronomy Day Observing Week are being scheduled and Tom will have the sign up sheet available at all future meetings. Next Public Observing will be Tuesday the 12th at Murney Tower.

April's members observing will be coordinated by Ken and the location will be near Moscow. The date will be the 1st clear night of 11th 13th or 14th. Ken will have a contact near the site for a weather report. Reach Ken at KenKingdon @ hotmail. com .

In keeping with an observing theme Laura then presented Vic Smida with his Messier Certificate.

Doug reported that the tube would be completed this weekend and he was getting close to a check of the primary.

Jan announced the date of the next CCD imaging group for the 16th. After a quick break Peggy won yet another bottle of wine(Solar Max II) and Wayne Harris won the 50/50.

John moved that an application for membership be accepted from Jim Bradford, 2nd Doug, carried.

Finally we came to our speaker for the evening, our own Dr. Tom Dean. Tom walked us through the mechanics of calculating simple orbits (planetary vs. long period comets) using Kepler's Laws. In addition to the talk, Tom has provided all of the slides for the web site, so if you missed the meeting have a look. After a bit of Q and A we had a brief presentation by Jan about the secondary mirror grinding, polishing and cutting. There will be a more complete description of the process in a future meeting.

Observing Group Meetings

These are regular meets at the home of members who volunteer their locations and homes to us on or near a new moon. Contact Tom Dean if you are interested in hosting a session.

Equipment Loan Program:

- * The scopes are available to members in good standing and the standard borrowing time is one month.
- * At present there is no charge for borrowing.
- * A short checkout is required on the scopes before you haul them away.
- * If you have a scope during a public event, the Observing Chair may require you to bring it to the event (eg, public observing session, Astronomy Day, etc).
- * You are liable for the equipment and will be required to sign it out and have it operational.

- ☆ 25cm (10") f5.5 "Douglas" Dobsonian
- ☆ 20cm (8") f7 "FitzGerald" Dobsonian
- ☆ 20cm (8") f4.5 "Barney" Dobsonian
- ☆ 11cm (4.5") f4.3 "Bushnell" Voyager
- ☆ 11cm (4.5") f7.9 "Orbitor 3500" Equatorial
- ☆ 5 barndoor tracking platforms

- ☆ Collimating Tool
- ☆ Binocular Set #1 B&L7x50
- ☆ Binocular Set #2 B&L10x50
- ☆ Binocular Set #3 Bushnell 7x50
- ☆ Binoculars Set #4 Stem 7x50
- ☆ 19mm Televue Panoptic Eyepiece
- ☆ Filter Set - ND13, 4 colour, O3 nebula - all 1.25"
- ☆ Kodak Ektagraphic 35mm slide projector
- ☆ hundreds of 35mm slides in a dozen sets

Effective November 2001: Meetings have moved from 8:00pm to 7:30pm and from Mac-Corry Hall to Stirling Hall Theatre D

RASC Kingston Centre Meetings

The Kingston Centre RASC meets once a month on the **2nd Friday of each month at 7:30 pm (19:30) in Stirling Hall Theatre D** on Queen's University Campus **unless noted otherwise**. We have adopted a policy of moving any meeting that is held on a holiday weekend to the **WEEK BEFORE**.

2002 Officers and Executive Council

PO Box 1793, Kingston, On K7L 5J6
 Infoline & answering machine 613-542-3974
 Email: <rascexec@cliff.path.queensu.ca>

We also have an email chat list "rascchat". Send your email address to Kevin Kell to be added to the RASCCHAT list.

President: Laura Gagne
Vice President: Paul Winkler
Secretary: Susan Gagnon
Treasurer: John Hurley
Librarian: David Maguire
Editor: Kevin Kell
National Council Rep: Peggy Hurley

2002 Committee Chairs

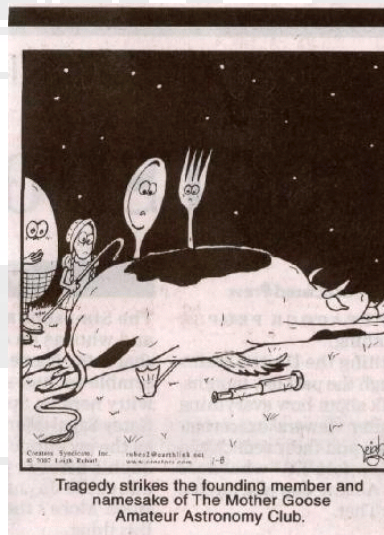
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 Astronomy Day Chair: Don Mastriani
 Awards Chair: Dave Pianosi
 CCD Group Chair: Jan Wisniewski
 Education Group Chair: Laura Gagne
 FallINStars2002: Kevin Kell
 Light Pollution Abatement Chair: Kim Hay
 Membership Chair: Kim Hay
 Observing Chair: Tom Dean
 Publicity Chair: Kim Hay
 Social Activities: Susan Gagnon
 Youth Group: vacant

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March-April Print Run=185

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

Newsletter Submission Info: The deadline is the 3rd Friday before regular meetings in odd numbered months. The preferred method is E-MAIL, then disk, lastly paper.
 E-mail: <kell@cliff.path.queensu.ca>
 Fax: 1-613-533-2907
 (with cover page to Kevin Kell) Post: Box 2033 Kingston Ontario K7L5J8 Canada
 ascii or most major word processors (Corel WP8 for windows preferred) via E-mail or cdrom or 3.5" PC floppy disk



Tragedy strikes the founding member and namesake of The Mother Goose Amateur Astronomy Club.



Kingston Kosmic & Event Kalendar 2002

Prepared by Kim Hay

For more detailed information, please refer to the RASC 2002 Calendar, and the RASC 2002 Observers Handbook. Available from your local promotions committee or from National Office, <http://www.rasc.ca/>

Month and Date	Event
Sat March 2	Zodiacal Light visible in west after evening twilight next 2 weeks
Wed March 13	New Moon at 21:02 EDT
Fri March 15	CHANGE OF DATE: RASC –KC Regular Meeting Stirling D, Queen’s University 7:30 pm. Speaker: Rocky Persaud, Speaking on “Mars on Earth”
Sat March 16	CCD Imaging Group- Host Jan Wisniewski
Tue March 19	Public Observing at Murney Tower, dusk (weather permitting)
Wed March 20	Spring Equinox at 2:16 PM EDT Saturn 2.5° East of Moon – best seen in Western Part of North America at 12:00 am EDT
Fri March 22	Jupiter 1.5 ° East of Moon – best seen in Western Part of North America at 2:00 am EDT
Thu March 28	Full Moon at 13:25 EDT
Fri March 29	Good Friday
Sun March 31	Easter Sunday
Sun April 7	Daylight Saving Time Begins at 2:00 am EST
Fri April 12	RASC –KC Regular Meeting Stirling D, Queen’s University 7:30 pm. EST Speaker: Dr. Brian Hunter, on “Observing Earth Satellites” New Moon at 15:21 pm. EST
April 15-21	International Astronomy Week- Kingston will be celebrating with Solar Observing at noon, and Night time Observing at Murney Tower
Tue April 16	Public Observing starting at 8:00 pm. at Murney Tower weather permitting Saturn 2° West of Crescent Moon best seen in East of North America at 9:00 pm. EST
Thu April 18	Jupiter 1.5° South of Moon- best seen in East of North America at 9:00 pm. EST
Sat April 20	International Astronomy Day- Mall Display at the Frontenac Mall from 9:00 am to 6:00 pm. Come visit us at the mall, and do some daytime observing. First Quarter Moon (Saturday) at 8:48 am EST
Mon April 22	Lyrid Meteor shower peak at 7:00 am EST
Fri April 26	Full Moon at 23:00 EST
Thu May 2	Space Day Celebrations to include an observing session at Queen’s Observatory in the evening
Sat May 4	3 rd Quarter Moon at 3:16 am EST Mercury at greatest elongation East (21°) best evening view of 2002
Sun May 5	0-Aquarid Meteor Peak at 12:00 am EST Texas Star Party, Fort Davis TX through May 12 www.metronet.com/~tsp
Sun May 12	New Moon at 6:45 am. EST
Mon May 13	CHANGE OF DATE RASC –KC Regular Meeting Stirling D, Queen’s University 7:30 pm. EST (Monday) Speaker: David Levy Good evening grouping of Crescent Moon, Saturn, Venus, Mars and faint Mercury
Fri-Sun May 17-19	General Assembly 2002 in Montreal Quebec Visit http://www.rasc.ca/ for more information

Effective 2002 January 11th WebSite Passwords for Member-only Secure areas:

RASC-Kingston: user: xxx pass: xxx

RASC-National: user: xxx pass: xxx