# VolleNews

NEWSLETTER OF THE POVG - THE PERTH OBSERVATORY VOLUNTEERS' GROUP INC.



	T	ENTATIVE ROST	TER	
Day	date	time	Sun 29	0900 - 1300
Fri 27 Au	ıg 0900 - 1	300		1100 - 1600
	1300 - 1	800		1300 - 1800
Sat 28	0900 - 1	1300	Mon 30	0900 - 1800
	1100 - 1	600		1300 - 1800
	1300 - 1	.800		
			Tues 31	0900 - 1300
				1300 - 1800
	Fri 27 Au	Day date Fri 27 Aug 0900 - 1 1300 - 1  Sat 28 0900 - 1 1100 - 1	Day date time Fri 27 Aug 0900 - 1300 1300 - 1800	Fri 27 Aug 0900 - 1300 1300 - 1800 Sat 28 0900 - 1300 Mon 30 1100 - 1600 1300 - 1800

In this issue: POVG's Meeting Minutes I Phases of the Moon Dates & Times for Vollie Training and Meeting Nights I Astronomy news & events for Aug I Shoemaker-Levy Trip

## Astro News

CONTROLLERS WORKING TO FIX
MARS ROVER PROBLEMS NAS
A's Spirit rover has climbed higher into
rocky hills on Mars, and its twin,
Opportunity, has descended deeper into a
crater, but both rovers, for the time being,
are operating with some restrictions while
team members diagnose unexpected behaviour, http://apace#ightinow.com/mare/mora/040804statue.html

#### GAMMA-RAY BURST WAS NEW TYPE OF COSMIC EXPLOSION

Astronomers have identified a new class of cosmic explosions that are more powerful than supernovae but considerably weaker than most gamma-ray bursts. The discovery strongly suggests a continuum between the two previously-known classes of explosions. http://apacellighinow.com/news/no4040494gb/

SOUTH POLAR STRUCTURE OF SATURN IMAGED BY CASSINI Saturn's southern polar region exhibits concentric rings of clouds which encircle a dark spot at the pole. To the north and toward the right, wavy patterns are evident, result-

ing from the atmosphere moving with different speeds at different latitudes.

IS THE SOLAR SYSTEM SPECIAL?
On the evidence to date, our solar system could be fundamentally different from the majority of planetary systems around stars because it formed in a different way. If that is the case, Earth-like planets will be very rare.

http://spaceflightnow.com/naws/n0408/03solar system/

TITAN'S PURPLE COVERING
POINTS TO A FUZZY PAST
Encircled in purple stratospheric haze,
Saturn's largest moon, Titan, appears as a
softly glowing sphere in this colorized
image taken on July3, one day after
Cassini's first flyby of that moon. Titan has
a dense atmosphere composed primarily of
nitrogen with a few percent methane. The
atmosphere can undergo photochemical
processes to form hazes.

http://spacelightnow.com/cassin/040730titanpurple.html

CATCHING A FALLING STAR
While observing a supernova in a distant
galaxy with the Very Large Telescope at
Paranal Observatory, astronomers were
incredibly lucky to obtain serendipitously a
high quality spectrum of a very large meteor inthe terrestrial atmosphere.
http://spaceflightnow.com/news/no407/31meleon/

NEUTRINOS LINKED TO 'DARK ENERGY'
Two of the biggest physics breakthroughs
during the last decade are the discovery that
wispy subatomic particles called neutrinos
actually have a small amount of mass and
the detection that the expansion of the universeis actually picking up speed.
http://spaceflightnow.com/nows/nb407/30noutrinos/

MESSENGER AWAITS LAUNCH ON MARATHON TREK TO MERCURY
Taking the economy route, NASA's MESSENGER spacecraft will spend six-and-a-half years just getting to its target for at least one year of scientific observations. The 4.9-billion-mile marathon will require 15trips around the sun, six trajectory-warping planetary fly by and another half-dozen critical rocket firings. Launch is set for early Monday from Cape Canaveral, Florida. This is our four-part, 4,000-word missionpreview.

#### NASA LOOKS TO NEW ASTRONOMY MISSION IDEAS NASA

has selected nine studies to investigate new ideas for future mission concepts within its Astronomical Search for Origins Program. Among the new missions are some that will survey one billion stars within our own galaxy, measure the distribution of galaxies in the distant universe, study dust and gas between galaxies, study organic compounds in space and investigate their role in planetary system formation and create an optical-ultraviolet telescope to replace the Hubble Space Telescope.

http://spaceflightnow.com/news/n0407/29origins/

SWIFT TO CATCH MYSTERIOUS BURSTS FROM DEEP IN COSMOS The Swift satellite, which will pinpoint the location of distant yet fleeting explosions that appear to signal the births of black holes, arrived at Kennedy Space Centre Thursday in preparation for an October launch.

http://spacetlightnew.com/news/n0407/29swif/

#### HAZY ALL OVER TITAN

Following its first flyby of Titan, Cassini gazed back at the smog-enshrouded moon's receding crescent. This natural colour view was seen by the spacecraft about one day after closest approach. The slight bluish glow of Titan's haze is visible along the limb

http://spaceflightnow.com/cassini/040728tilan haza.html

#### MYSTERIOUS PLASMA JETS ON THE SUN EXPLAINED

Solar physicists from Lockheed Martin and the Solar Physics and upper-Atmosphere Research Group at the Department of Applied Mathematics of the University of Sheffield, UK have used computer modelling and some of the highest resolution images ever taken of the solar atmosphere to explain the cause of supersonic jets that continuously shoot through the low atmosphere of the Sun.

http://spaceflightnow.com/news/n0407/28plasmalets/

#### STELLAR PAIR SHOT OUT FROM SUPERNOVA BIRTHPLACE

Astronomers studying data from the National Science Foundation's Very Long Baseline Array and other telescopes have concluded that a binary pair of stars forming an energetic micro quasar was blasted out of the cluster in which it was born by a supernova explosion some 1.7 million years ago. This is the first time that a fast-moving stellar pair has been tracked back to a specific star cluster.

http://spaceflightnow.com/news/n0407/28m icro quasar/

#### ODD-LOOKING MOON MIMAS PHOTOGRAPHED BY CASSINI

Soon after orbital insertion, Cassini returned its best look yet at heavily cratered Mimas. The enormous crater at the top of this image,named Herschel, is about 80 miles wide and 6 miles deep. http://space-flightnow.com/cassini/040726mimas.html

#### SHIP-SINKING MONSTER WAVES REVEALED BY SATELLITES

Once dismissed as a nautical myth, freakish ocean waves that rise as tallas ten-story apartment blocks have been accepted as a leading cause of large ship sinkings. Results from the European Space Agency's ERS satellites helped establish the widespread existence of these 'rogue' waves and are now being used to study their origins. http://spaceflightnow.com/news/n0407/26m onsterwaves/

## **POVG Minutes**

Perth Observatory Volunteer Group Inc

.Minutes of Meeting. July 12th 2004.

#### Present.

J.Alcroft. M. Freeman. E. Walker. M. Haslam. J. Biggs. J. Morris. L. Robinson. R. Tanello. D. Alderton. B. Harris. G. Lowe. A. Williams. F. Bilki.

#### Apologies.

G. Coletti. J. Bell. M. Zengerer. A. McNaughton. V. Semmler. T. Beston. J. Milner. V. Smith. L. Martin.

Confirmation of Minutes.

Agreed that the minutes were a true and correct record. Moved B.Harris. Seconded E.Walker.

Business arising from the Minutes.B. Harris reported that he had obtained Catalogues for Jackets and other clothing items from "Allmark ", these to be retained by the Secretary for future reference.

#### Treasurer's Report.

B. Harris stated that the bank balance remained at \$210.33, and that a reply had been sent to the Taxation Dept confirming that the Group was a non profit organisation.

#### General Business.

G.Lowe called attention to the dropping number of Volunteers, on checking the list it would appear that our numbers had reduced to roughly 15 active members, As 20 volunteers are normally required to cover the season it would be necessary to advertise for a fresh intake in the near future.

G.Lowe stated that the end of season windup would commence at the "Hogsbreath Café in Northbridge at 6.30pm moving to the Planetarium at 8.30, finishing at 9.45. Members wishing to attend should confirm their booking with Greg by noon on Friday 16th.

M.Freeman stated that an application had been lodged with the Commonwealth Government for a grant to purchase 15 Jackets and Caps, these would remain the property of the group and would be handed back should the user cease to be a Volunteer with the Observatory. The Shoemaker trip now had 8 confirmed entries from the volunteers and at least another 8 from external contacts, and the possibility of a few more entries from other groups, a deposit of \$120.00 would need to be paid by the 26th July

There being no further General Business the meeting closed at 7.45

Next Meeting on 9th August

Only a couple of spaces left for the Shoemaker Impact Structure Field Trip. Book now!

## REMEMBER TO REGISTER YOUR DAYS (NIGHTS) AND HOURS

In order to assist the Observatory plan its operations for 2004/2005 could all vollies please register their intended number of days and hours per month in the programmes they are currently engaged in (eg. Star Viewing Nights).

Please contact Greg Lowe with this information before 2004/07/01.

## The Observatory Star Viewing Night program

Begins on.....Friday Sept 17.
Generally ONLY on most Fri & Sat evenings until mid December when we expand things for a VERY BUSY JANUARY & FEBRUARY.

The customers have voted with their feet basically to tell us that they don't want week nights for most of the season, but anything goes in the summer holiday times. The brochure will be out by July 1...Peter.

## Shoemaker Impact Structure expedition, Sept. 8th - 12th.

I expect that Mike Freeman will be wanting commitments from those intending to go on the Shoemaker Impact Structure expedition, Sept. 8th - 12th. Right, Mike?

Thanks to those who've already notified us of your intentions with regard to vollifying next season. Regards, Greg.

# Have you joined the POVG Newsgroup yet?

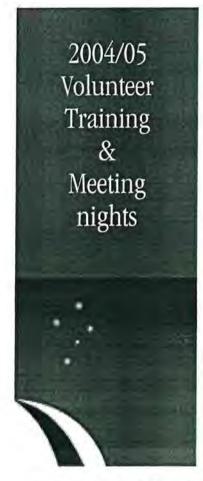
If you've got any news, information or pics post them on the newsgroup. To join simply send your email address to Bevan Harris at: ngc2070@bigpond.com

To unsubscribe send an email to:

perthobsvollies-unsubscribe@yahoogroups.com.au To modify your subscription,

visit the group website at: http//au.groups.yahoo.com/m ygroups

# Perth Observatory Volunteers' Group



Training is important for our volunteers, they enjoy it and we need to support these staff members in return for the assistance they render.

Generally, these training nights are scheduled for 7pm the Monday after the week of Last Quarter.

This list (or a part thereof) is also displayed on the volunteer notice board. Your cooperation is appreciated. Jamie Biggs. Govt Astronomer.

2004 6 Sep; 11 Oct; 8 Nov; 6 Dec.

2005 10 Jan; 7 Feb; 14 Mar; 4 Apr; 9 May; 30 May; 4 Jul; 1 Aug.

#### Perth Observatory Staff

Dr Jamie Biggs	Director and Govt Astronomer		
Peter Birch	Astronomer		
Ralph Martin	Astronomer		
Dr Andrew Williams	Astronomer		
Rick Tanello	Astronomer Assistant		
Greg Lowe	Astronomer Assistant		
Janet Bell	Administration Officer		
Di Johns	Clerical Officer		
Arie Verveer	Technical manager		
John Pearce	Mechanical technician		
Marc Appelhof	Maintenance Person/Cleaner		

POVG VOLUNTEERS

Mike Freeman Chairperson

Elaine Walker Vice Chairperson

John Morris Secretary

Bevan Harris

Jeff Alcroft

Treasurer and newsgroup moderator (contact: ngc2070@bigpond.com)

Editor (contact: callides@iinet.net.au) or through newsgroup

#### Observatory's Volunteers' Active Member List

Jeff Alcroft	Marcel Fortsch	Len Martin	
Dick Alderson	Mike Freeman	Jacquie Milner	
Jeanne Bell	Lynda Frewer	John Morris	
Trevor Beardsmore	Bevan Harris	Lloyd Robinson	
Lyall Bell	Don Hartley	Sascha Schediwy	
Frank Bilki	Mark Haslam	Val Semmler	
Tony Beston	Bert Hollebon	Vera Smith	
Ric Boelen	Karen Kotze	Patricia Turner	
Eve Cowlishaw	Erin Lalor	Elaine Walker	
Giuseppe Coletti	Vic Levis	Sandra Walker	
David Emrich	Rob Loney	Matthew Zengerer	
Keith Ford	Andrew MacNaughtan		

# PHASES OF THE MOON FOR 2004

	New Moon	First Quarter	Full Moon	Last Quarter
			Jan 7 23:40	Jan 15 12:46
	Jan 22 05:05	Jan 29 14:03	Feb 6 16:47	Feb 13 21:40
	Feb 20 17:18	Feb 28 11:24	Mar 7 07:14	Mar 14 05:01
	Mar 21 06:41	Mar 29 07:48	Apr 5 19:03	Apr 12 11:46
	Apr 19 21:21	Apr 28 01:32	May 5 04:33	May 11 19:04
	May 19 12:52	May 27 15:57	Jun 3 12:19	Jun 10 04:02
	Jun 18 04:27	Jun 26 03:08	Jul 2 19:09	Jul 9 15:33
	Jul 17 19:24	Jul 25 11:37	Aug 1 02:05	Aug 8 06:01
Ē	Aug 16 09:24	Aug 23 18:12	Aug 30 10:22	Sep 6 23:10
	Sep 14 22:29	Sep 21 23:53	Sep 28 21:09	Oct 6 18:12
	Oct 14 10:48	Oct 21 05:59	Oct 28 11:07	Nov 5 13:53
	Nov 12 22:27	Nov 19 13:50	Nov 27 04:07	Dec 5 08:53
	Dec 12 09:29	Dec 19 00:40	Dec 26 23:06	