

# Nightlife

40p

28

March 2003

## Astronomy News and Views in and around the Southern Area

### All Things Must Pass

The end is nigh. After much soul searching and a little discussion, we have decided to pull down the curtain on *Nightlife* at the end of this year, making issue number 30 the very last *Nightlife*. The decision is based not on any sort of failure - it's quite the reverse really, as it has been much more successful than we ever imagined, but we have reached a plateau from where we can advance no further without evolving into a fully professional publication.

The initial aim was to publicise the amateur astronomers and astro societies in the south of England, which was also our 'targeted' readership. Using the *Southern Area Group of Astronomical Societies* (SAGAS) as our centre of information, operations and distribution, we increased our sales every single issue up until a couple of issues ago, when sales levelled.

The major problem of producing any sort of publication is not the interviews, writing or production, but the distribution. From the beginning, the regular SAGAS meetings were used as a main distribution centre for *Nightlife* where society representatives would collect bundles of *Nightlives* to distribute both to their members who subscribed and for sale to those who didn't. Visiting other societies in the south who never attended SAGAS meetings regularly, also resulted in increasing sales and subscriptions and we now regularly sell to most of the societies on the back page, but we can expand no more. This leaves the only way forward as down. I have always held the opinion that you should always quit at the top and go out with a sense of achievement, which led us to the decision to draw the curtain and look to other projects.

Our original aims to educate and inform have certainly been met, plus we have also had the spin-off of two very successful *Nightlife* events in Portsmouth, both of which were over-subscribed. We will continue with these events under the *Nightlife* banner and likewise with the website.

For the many subscribers we have (some up to 2013!!), don't worry, all over-payments will of course be refunded. We will keep you informed and up to date during the next and last issue.

**Pete Seiden**

© *Nightlife* is produced by  
**Pete Seiden & Graham Bryant**  
31 Paignton Avenue, Copnor,  
Portsmouth, Hants PO3 6LL  
Tel: 023.9261 8113  
Fax: 023.9235 2460  
pete@nightlife.demon.co.uk

## Jen's the Star!

*Just one month after starting 'seriously' to search for undiscovered asteroids, George Sallit was in contact with the Minor Planet Centre in America to report that he had found a possible candidate.*

Unlike supernovae discoveries, new asteroids are not confirmed immediately, but require a number of observations over a few orbits to ensure that they are well characterised and not lost. Last year, after these additional observations had confirmed his asteroid as previously unknown, George named his discovery *JenSallit*, in honour of his wife Jennifer, whose birthday was a few days later.

*After many years on the move, deftly side-stepping any attempts to tie him down, Dr. John Mason finally relinquished his bachelor life on Friday, 20th December 2002, when he married Jane Corke, his partner of five years, in Chichester.*

Forty guests attended the ceremony at Chichester Registry Office, where their official witnesses were Jane's sister Margaret and her brother-in-law John.

Guests then enjoyed celebratory drinks in the nearby Ship Hotel, followed by a rolling reception at the home of the bride and groom in Barnham, which continued until well after Sirius rose, according to the invitation.

Married life is unlikely to change either of their lifestyles, as Jane will continue as a teacher of Biology, Environmental Science and Rural Studies at Slindon College, and John will continue in his steady job as a Television Documentary Maker/Editor/Researcher/Lecturer/Physicist/Author/Broadcaster/After-Dinner Speaker and



George Sallit in his observatory with his 12-inch Meade telescope

George and Jennifer live in the quiet Berkshire village of Southend-Bradfield which has one Post Office, one pub, one garage and as George puts it - one horse. They chose the house largely because of the dark skies afforded by its location and its large garden, which now houses his observatory, a nine-sided structure on five-sided base. The observatory is home to his 12-inch Meade LX200 fitted with F3 focal reducer, to give it as wide a field of view as possible.

As George explained, new discoveries of asteroids are not necessarily attributed to

the discoverer, but to the person who contributes the most work in verifying that the object is indeed 'new'. In this case, George had also carried out most of the follow up observations and measurements, so he was given this honour.

Working independently from others engaged in this work, George had discovered the object some years previously - on 10th October 1996 - and reported it to the Minor Planet Centre in Cambridge, Massachusetts.

George told *Nightlife* that the position of asteroids has to be determined to an

## Another One Bites The Dust !

Science Correspondent.

In true Mason style, John left the evening reception for 'about an hour or so' in order to honour a booking at the *South Downs Planetarium*, where he gave one of his regular presentations to a very appreciative audience.

We are sure that all their very many friends in the south and beyond will join *Nightlife* in wishing them a long and very happy life together.



John & Jane Mason (centre with *Nightlife*'s Graham Bryant (left) and Pete Seiden (right)

## JenSallit Continued

accuracy of  $1/10$  arc second in order to accurately plot its orbit, plus the observer providing this information had to be on the 'approved list' set up by the Minor Planet Centre, which George is on. To obtain such approval, amateurs have to submit a series of measurements taken of a well-known asteroid to the Minor Planet Centre which they compare with the known position. If the observations tally, the observer is added to the approved list.

On the night of George's discovery, he had carried out his usual method of searching. Selecting an area of the night sky, he had taken a series of 10 overlapping images, each of 5 minutes duration, using an SBIG ST7 CCD camera. After completing these 10 exposures, he repeated the sequence with another ten exposures each one covering the same areas as in the first set. This procedure provides two images of each area, separated by approximately 50 minutes (the time taken to expose the ten 5-minute images). This 50 minute difference is enough to show the movement of any asteroids in the field.

These movements are highlighted on the computer screen by 'blinking', a technique whereby the two exposures in each pair are flashed onto the computer screen alternately in rapid succession. If both images are exactly aligned on the screen, any object that moved between the two exposures is seen to 'blink' back and forth. Invariably, if there are any changes on the image at all, George takes a third image, just in case the asteroid was close to a star in one of the previous images. Thereafter, George uses astrometry routines to check the position of the object on the images.

Once the precise position is measured, it can be checked against the Minor Planet

Database which holds the orbital details of all known asteroids. In George's case, no object was listed at that position, so he took

further images of the asteroid that night and then submitted the measurements he had made to the Minor Planet Centre. They confirmed that the object was not on their database, so he followed up the observations for two days the following week, then two consecutive days one month later and finally two consecutive days three months after that. It is important that observations are made on consecutive nights, but this can be very difficult given the vagaries of the English weather.

George told us that his nervous time began when the asteroid set behind the sun. He had to wait for over a year for the object to become observable again - and to confirm if it was in the predicted position based on the previous measurements.

Unfortunately the asteroid wasn't high enough in the sky to assist the 'recovery' observations and George had to wait even longer for it to climb in the night sky. When he did find it, it was at magnitude +18, and George began his earlier procedure of imaging

- two days of observations a week, then a month and then three months apart.

With observations available from a number

provided the second independent confirmation required.

It was at this stage that the object was fully confirmed as an asteroid and could be named as opposed to its original temporary designation of 1996 TF15.

Once the orbit had been determined, the asteroid then received an official number, which in George's case was 29621 - the number of asteroids discovered for which orbits are known, since the discovery of Ceres in 1801.

Once it has been numbered, the person who has made the most observations to characterise the orbit has the opportunity to name the object, which has a convention of its own. The naming requires a small citation, which is sent to the Small Body Naming Committee who ensure that the name is appropriate (it is considered bad form to name it after yourself or a product). Providing it meets these criteria an acknowledgement is received that confirms that 'asteroid 29621 is now known as *JenSallit*'.

George still continues to observe asteroids and has what he describes as many 'one-night-stands' when he finds an unknown object for one night but is then clouded out for several nights thereafter and loses the object. He still measures and reports such sightings as the object may be 'rediscovered' in the future and working backwards the 'one-night-stand' observation will help to determine the orbit.

With thanks to Steve Harris



George outside his 'nonagon on a pentagon' observatory

of oppositions, an orbit can be well characterised, preventing it being 'lost' in the future. For this particular asteroid, measurements had to be taken at four oppositions to enable the orbit to be characterised with a degree of certainty. Some of these were provided by the NEAT observatory in the United States, which

## Hastings & Battle AS

Hastings and Battle Astronomical Society has recently commissioned a 410mm (16.5-inch) F4.8 Newtonian telescope mounted on a Dobsonian (shown below at its unveiling with a group of HABAS members).

The telescope has been used 3-4 times so far principally to enable HABAS members to get used to its operation.

Despite being a relatively heavy instrument, it is surprisingly easy to use reports **Keith Woodcock**,

although its height necessitates the use of a small stepladder to reach the eyepiece when pointed at the zenith.

The telescope is currently stored in a member's garage but can easily be dismantled into four parts for easy transportation by car, when individual members of the society wish to use it.

This telescope - completed in just six months - is the latest to be constructed by the society's telescope-making group which to date has produced one 250mm (10-inch) reflector on a Dobsonian mount, a 200mm (8-inch) equatorially-mounted reflector and a 178mm (7-inch) refractor on an altazimuth mount - all of which are for the use of society members

Following on from the telescope classes, the next major project for the society is their own ten-foot diameter domed observatory,



construction of which begins next month on private land. This will house an already completed 10-inch reflector complete with a 6-inch finder telescope.

For National Astronomy Week, the society will be working all week in conjunction with the Herstonceux Science Centre, ending with an all-night Star Party with barbecue on Saturday 30th August (including food).

This event, like all similar ones during that week will be open to the public. Tickets are available for £19.00 for the evening, including food from either:

**Keith Woodcock** Tel: 01424 443883  
**Peggy Walker** Tel: 01424 435895

Those interested in this event are advised to book early as there is a maximum of 60 attendees at the event.

## National Astronomy Week

National Astronomy Week will be upon us again this year from August 23rd to August 30th and all attention will be on the Planet Mars - due to be at its closest approach for many years.

These weeks have now become a national event since the first one was suggested and organised over a decade ago by **Robin Gorman** of the Hampshire Astronomical Group and a regular at SAGAS meetings.

The aim of the Week is to raise the profile of astronomy and space within the UK. It gives the opportunity for astronomical societies and space organisations throughout the country to provide special events and observing sessions, using the publicity provided by the NAW organisation. This year the committee consists of **Pam Spence** (Federation of Astronomical Societies), **John Becklake** (Observatory Science Centre, Herstonceux), **Robin Gorman** (Hampshire AG), **Teresa Grafton** (London Planetarium and Association for Astronomy Education), **Guy Hurst** (British Astronomical Association), **Barrie Jones** (Open University), **John Lane** (Royal Astronomical Society), **Judith Pillinger** (Beagle 2), **Bob Rubin** and **Robin Scagell** (Society for Popular Astronomy).

The Mars encounter will attract the most attention, and that will be the focus of the Week. The date of closest approach will be on August 27 and this will undoubtedly be a great spectacle. The planet will be fairly high in the sky and even small telescope will show its disc and maybe a few markings.

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In 2003 Mars will be particularly close to

Earth, at a mere 56 million km (35 million miles). This is the closest it has been for the last 6,000 years and certainly since the invention of the telescope.

There are other notable astronomical events throughout the year which are:

The launching in June of *Mars Express* and *Beagle2* which will arrive at Mars in December 2003;

An annular eclipse of the Sun visible from the north of Scotland (at dawn) on 31 May 2003 - partial elsewhere;

Two total lunar eclipses visible in the UK. The first is only visible at Moonset on 16 May but the second looks better on Nov 9

A transit of Mercury in May, and ...

it's the 50th anniversary of the founding of the *Society for Popular Astronomy*

Every astronomical organisation, amateur or professional, is urged to hold observing sessions during the week and to think up novel ideas to involve the public.

To help with the organisation, societies who are planning events are asked to register the details on the NAW website at:

[www.astronomyweek.org.uk](http://www.astronomyweek.org.uk)

# Horsham to Host SAGAS Summer Meeting

*Horsham Astronomy Group* have taken up the challenge to host this year's SAGAS Summer Meeting. Now a major event in astronomers diaries, every one to date has proved to be very popular.

The purpose of these main meetings - started five years ago, was to move away from the talking-shop meetings in Chichester for committee members, to a more popular meeting for ordinary members and the public, with speakers and trade stands. By moving away from Chichester, it was hoped that

attendees would be able to visit local places of interest.

To date, these meetings have been hosted by *Vectis AS*, *Croydon AS*, *East Sussex AS* and *Nightlife* (twice). Attendances have ranged from 80 at Vectis (maximum capacity) to 280 at both Nightlife events (maximum capacity).

The Horsham event is being arranged by **Owen Brazell** at *Christ's Hospital*, Horsham's largest school. It will be held on

Saturday 12th July 2003. Details are still being finalised at the time of going to press with final confirmations awaited from an impressive line up of speakers.

Provisional information is that tickets will be priced at £7.00 and the doors will be opened at 8.30 for traders. Attendees can arrive at 10.00 with the first lecture beginning at 11.00. There is ample car parking at the school and full details and map will be published on the SAGAS pages of the *Nightlife* Web Site.

# BAA Workshops

The BAA is staging a series of 'workshops' around the country with the aim of encouraging amateur astronomer to enjoy practical observing and to introduce them to project work that may prove useful to the scientific astronomical community. The majority of the talks will be aimed at the relative newcomer who may be looking for guidance after purchasing a telescope, but there will be some lectures on more advanced techniques for the more experienced amateurs seeking new challenges.

The talks which are spread over the course of the year are to be given by many of the most experienced amateurs observers in the United Kingdom, all of whom have much experience in their field.

Each of the Workshops stands alone, but attendees are being encouraged to attend all three. If these Workshops prove successful it is intended to repeat the arrangements in 2004.

At the time of going to press the first of these events is being held at the *Institute of Astronomy* at Cambridge, featuring six speakers. The second is to be held as part of the *BAA's Winchester Weekend* on Saturday April 26th and feature:

**Nova Patrolling** by Guy Hurst (President of BAA and Editor-in-Chief of *The Astronomer*);

**Atmospheric Phenomena** by Mike Frost (Chairman of Coventry and Warwick AS);

**The Moon in all her Aspects** by Jeremy Cook (Former Director of the Lunar Section, BAA);

**Visual Observation of Meteor Showers** by Neil Bone (Director of Meteor Section, BAA);

**Solar Observing with Small Telescopes** by Lee Macdonald (Author of 'How to Observe the Sun Safely');

**Drawing the Deep Sky** by Dr. Stewart Moore (Chairman of Farnham AS);

**Eclipsing Binaries - A Beginners Guide** by Tony Markham (Former Director of Variable Star Section of Society for Popular Astronomy);

**Observing The Transit of Venus in 2004** by Robin Gorman (President of Hampshire Astronomical Group) and

**Starting out in Spectroscopy** by Maurice Gavin (Past President of British Astronomical Association).

Entrance to this Workshop forms part of the Winchester Weekend, so to attend it is necessary to complete the *Winchester Weekend* booking form to attend either as a day visitor or for the entire Weekend Conference. All are welcome, BAA member or not. The rates for this year's event are:

Saturday  
Day Delegate Rates £20 inclusive of Lunch  
Day Delegate Rates £30 inclusive of Lunch and Dinner

Sunday  
Day Delegate Rates £17 inclusive of Lunch

Residential £100 for BAA members, £110 for non-BAA members

Delegates(day & residential) must pre-book

# Webb Society at Cambridge

The Webb Society will be holding its 2003 annual meeting and AGM at the Institute of Astronomy, Cambridge on Saturday 17th May 2003.

Founded and named in honour of the **Reverend Thomas William Webb** (1807-1885), an eminent amateur astronomer whose classic *Celestial Objects for Common Telescopes* has been an inspiration to several generations of amateur astronomers. The main purpose of the Society is to encourage amateur observations of double stars and 'deep-sky' objects such as star-clusters and nebula and to provide a forum where observers can communicate and publish the results of their work.

This year's lectures are:

**Dr Michael Hoskin** who will speak on Herschel. Michael is a Fellow of *Churchill College, Cambridge*. He received his Ph.D. in algebraic geometry from Cambridge in 1956 and became a lecturer in the history and philosophy of science at the University of Cambridge from 1959 to 1988. In 1970 he founded the *Journal for the History of Astronomy*, and he recently completed 30 years as the editor. He is a member of the *IAU* and of the *International Academy of the History of Science*.

**Steve Gottlieb** will speak on Galaxies. Steve spends a huge amount of time observing NGC/IC objects and has so far observed over 5600 of them - mostly above 45° declination. He has also supplied many corrections to the *Revised New General Catalogue*.

**Dr Stephen Smartt** will speak on Supernova Explosions. Steve is a PPARC Advanced Fellow in the *Institute of Astronomy* at the University of Cambridge and has previously worked at the *Isaac Newton Group of Telescopes* on La Palma as a support astronomer. He also spent two years at the *IoA* in the *UK Hubble Space Telescope Support Facility*.

Also speaking are **Martin Nicholson** on Double Stars, **Stewart Moore** on Caroline Herschel Objects and **Owen Brazell** on Supernova Remnants.

As usual there will be Trade Stands at the event, tickets for which are £7.00 on the door which opens at 10.00am.

[www.webbsociety.freereserve.co.uk](http://www.webbsociety.freereserve.co.uk)

# Up Up and Away

Is it a bird?.. Is it a plane?.. No! It's Solent AA's observatory dome !!

The 16-inch telescope and observatory used by the Solent Amateur Astronomers at Itchen College has now been repaired following the damage caused last year by high winds.

The dome had lifted off and travelled some distance, landing in an adjacent school playing field. The college has now repaired the dome and telescope and the society have resumed public visiting.

It is hoped that the 12-inch Newtonian telescope at the group's other observatory at Toothill is to be replaced with a 14-inch Meade as part of a £4500 lottery grant application which they have submitted as a joint project with a local school.

Pupils from the school, which is for disabled children, have visited the observatory on a numerous occasions as part of their science education. The headmaster was so impressed with the facility that he has thrown his support behind the project and the grant application.

# International Speakers at Eastbourne

*Eastbourne AS* continue to maintain the high standards of lecturers they arrange with talks by two international speakers in the coming months.

First to take the stand is **Wil Tirion**, the world's foremost celestial cartographer who will be speaking on Saturday 1st March 2003.

Wil's major works include the *Bright Star Atlas 2000.0*, *The Cambridge Star Atlas*, *Sky Atlas 2000.0* and *Uranometria 2000.0* (with co-authors). He has also provided the star charts for many other recent books, yearbooks and magazines, and is co-author of more than a dozen books, including *The Monthly Sky Guide* and *Collins Guide to Stars and Planets*. A selection of Wil's celestial atlases and books will be on display at the meeting.

The talk will begin with an outline of the history of 'uranography', or the charting of the heavens. The origin of the constellations - including the southern ones - will be discussed and some of the magnificent 17th and 18th century star atlases, with their mythological constellation figures and other curiosities, will be described and illustrated by slides. The more functional and therefore more scientifically useful (but perhaps less



Wil Tirion

visually appealing?) 19th and 20th century star atlases will then be considered and the changes in stellar cartography over the centuries put into context.

After the break, Wil will tell how he became interested in star charts and began making his own as a hobby, how this hobby evolved, and how finally it became a full-time profession in which much of the plotting is now done by computer.

The second of the international speakers is

**Professor Jim Whitford-Stark** from *Salross University Texas* who will give a talk entitled 'Volcanism in the Solar System - From the Deep-Sea Floor to the Satellites of Neptune'. The lecture will be given on 7th June.

Jim is coming over from the USA to speak to *Eastbourne AS* at the request of **Peter Gill**. They met at the 1979 Lunar Symposium at *Keele University* that he organised in conjunction with the *British Astronomical Association*, to coincide with the 10th Anniversary of the Apollo 11 Lunar landing.

The symposium hosted a mix of professional and amateurs concerned about the moon and **Jim Whitford-Stark** was one of the professional speakers. Jim was involved with Thomas Mutch who wrote the book on lunar geology entitled '*Geology of the Moon*'.

**Jim Whitford-Stark** is English by birth and studied at *Keele University*, before leaving to work in America. After discussions with Peter, Jim agreed that it was about time he visited 'the old country' again and vacation here after his talk.

Both of these meeting will be held at the *Willingdon Memorial Hall*, on the south-west corner of the crossroads between the A2270 (formerly the A22) and Church Street. Both of the speakers are scheduled to begin at 7.30 p.m.

The Autumn SAGAS meeting has been arranged for Saturday 1st November 2003 at the Stockbridge Hall, Stockbridge Road, Chichester. This later date has been selected to prevent it clashing with other national astronomical meetings.

# Insurance Hits Astro Events

As reported in the last issue of *Nightlife*, the matter of insurance is one that is currently causing concern to astronomical societies throughout the SAGAS area. Some societies do appear to have overcome the difficulties posed by the insurance regulations, whilst others have been less fortunate to date.

A report that highlighted the problem described how the organisers of a country fete that regularly raised several hundreds of pounds for local charities, were being personally sued for £250,000 after a member of the public tripped and broke her leg.

It was this sort of problem that prompted the *Hampshire Astronomical Group* to cancel their last Open Weekend and left the staging of future ones in doubt.

This cancellation was deemed necessary when the local council demanded that the Group indemnify them for £10 million after the police requested a road closure in order to provide cover for the

event. In the absence of such insurance, the officers of the Group were informed that they would be personally liable in the event of an accident.

In light the increasingly litigious society we now live in, affordable public liability insurance to cover societies and their observatories for these events is not available and could sound the death knell for public open weekends.

With the next *National Astronomy Week* arranged for this summer, this is an issue that will be of concern to many societies. It is hoped that some answers will be forthcoming from the next SAGAS meeting when this item will be discussed in detail.

## Crawley AS Aided by Airport

*Crawley AS*, which currently has 30 members, have been busy fundraising to buy new equipment for educational purposes.

The society approached the *Airports Authority* who gave them a £350 grant. This was topped up by the proceeds of a sale of a telescope and further fundraising, bringing the total to £800.

Sue Hudson-Cooke, society secre-

tary, said she had great fun spending the money at the recent *Astrofest* where she purchased a *Meade ETX 105*. The telescope is to be used on outreaching into a number of local schools promoting astronomy and their society.

The society's next project is to purchase an astronomical video camera to fit on their telescope to enable a number of people to view the heavens at once.

## Pickard on the Move

**Roger Pickard**, one of the stalwarts of *Crayford Manor House AS* and one of its many active observers will soon be leaving the southern climes of England and heading for Herefordshire. Prompted by retirement, the calling of darker skies, an 'empty nest' and a more peaceful way of life Roger and his wife expect to be leaving sometime this year.

# First-Timer Tony Goes for 18-inch

*Although the trend in recent years has been away from home-made telescopes to the computer-controlled professionally built instruments shipped in from America, Tony Carter of the Havering AS is keeping the old tradition alive.*

prevent any distorting during use.

With only a few books and pamphlets to guide him, Tony spent the whole of last summer

secondary mirror, which he described as a 'nightmare', but unlike many others who have given up trying to obtain the optical flatness required, Tony continued



He has just completed the construction from scratch of an 18-inch reflector, including the grinding of the main mirror, which for a first-timer was a very large instrument to make.

The books and advice on grinding your own main mirror has always been to start with a fairly modest blank - usually a 6-inch - and then to progress up through 8, 10, 12 and beyond in steady stages to gain experience at this very difficult task, but Tony decided to jump in feet first!

Living in London near the Romford Brewery, Tony is a silk-screen printer by trade, but obviously has engineering skills and a talent for keeping costs down. The total cost of constructing this instrument has been well under £100, most of which went on the main mirror blank which he managed to get from Wales for the princely sum of £70. As it is a mere 1.5-inch thick, Tony has had to manufacture an 18-point floatation system to support it and

grinding and figuring the mirror and managed to achieve the one-quarter wave accuracy. He then turned his attention to the tube and mount. Sticking to his low-cost philosophy, Tony got a friend to weld together two brand new 55-gallon oil drums, which he got for free, to make the 81-inch long tube. For the telescope mount, he constructed an open fork mount using 8-inch steel girders on plumber block bearings.

The one part that has caused Tony some consternation is the

struggle and was finally rewarded with an acceptable surface.

With the telescope now housed in a converted shed in which the roof rolls off 'like a convertible car', Tony says that he is really happy with the images so far even though the optics have not been fully calibrated. He is now on the lookout for the parts required to motorise the mount.

Once the drives are fitted Tony hoped to carry out CCD work.

## Lottery Grant for Vectis AS

*Vectis AS* have just been successful in obtaining a grant to provide a new mobile telescope to operate out of their observatory on the Isle of Wight.

Granted under the 'Awards for All' scheme which has a maximum limit of £5,000, Vectis received the full

price of the telescope that was applied for - £4,460.

Normally taking 3 months to get a response, Vectis were pleasantly surprised to receive notification of the award in under 6 weeks.

The society currently has a second

grant application under consideration to provide a 14-inch *Meade* telescope for their observatory.

If successful this new telescope will provide a much needed boost to the society who hold regular public events at the site.

See our web site at <http://www.nightlife.demon.co.uk>

ANDOVER ASTRONOMICAL SOC JEFF GEARY 15, EVINGAR ROAD, WHITCHURCH HANTS RG28 7EY Tel: 01256.893367	CROYDON ASTRONOMICAL SOC JOHN MURRELL 17, DALMENY ROAD, CARSHALTON, SURREY SM5 4PW Tel: 020.8647.5490	HAMPSHIRE ASTRO GROUP GEOFF MANN 10, MARIE COURT 348, LONDON ROAD, WATERLOOVILLE, HANTS PO7 7SR Tel: 023.9223 2491	MID-KENT ASTRO SOCIETY AMANDA PETERS 133, CARNATION ROAD STROOD, ROCHESTER KENT ME2 2YF TEL:01634.308035	SOUTH DOWNS ASTRO SOCIETY THE SECRETARY C/O 46, CENTRAL AVE, BOGNOR REGIS, W SUSSEX PO21 5HH Tel: 01243.829868
BECKINGTON ASTRO SOCIETY JOHN BALL Abbeylands, 51, GOOSE ST, BECKINGTON SOMERSET BA3 6SS Tel: 01373.830419	EASTBOURNE ASTRO SOCIETY PETER GILL Flat 18, SELWYN HOUSE SELWYN ROAD EASTBOURNE BN21 2LF Tel: 01323.646883	HASTINGS & BATTLE ASTRO SOC KEITH WOODCOCK 24 EMMANUEL RD, HASTINGS, EAST SUSSEX TN34 3LB Tel: 01424.443883	NEWBURY ASTRO SOCIETY ANN DAVIES 11, SEDGEFIELD ROAD, GREENHAM, NEWBURY RG14 7TZ Tel: 01635.30598	SOUTH EAST KENT ASTRO SOC JOHN CARRUTHERS 48, MILLGREEN EASTREY, Near SANDWICH KENT CT13 0LE Tel: 01304.614566
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