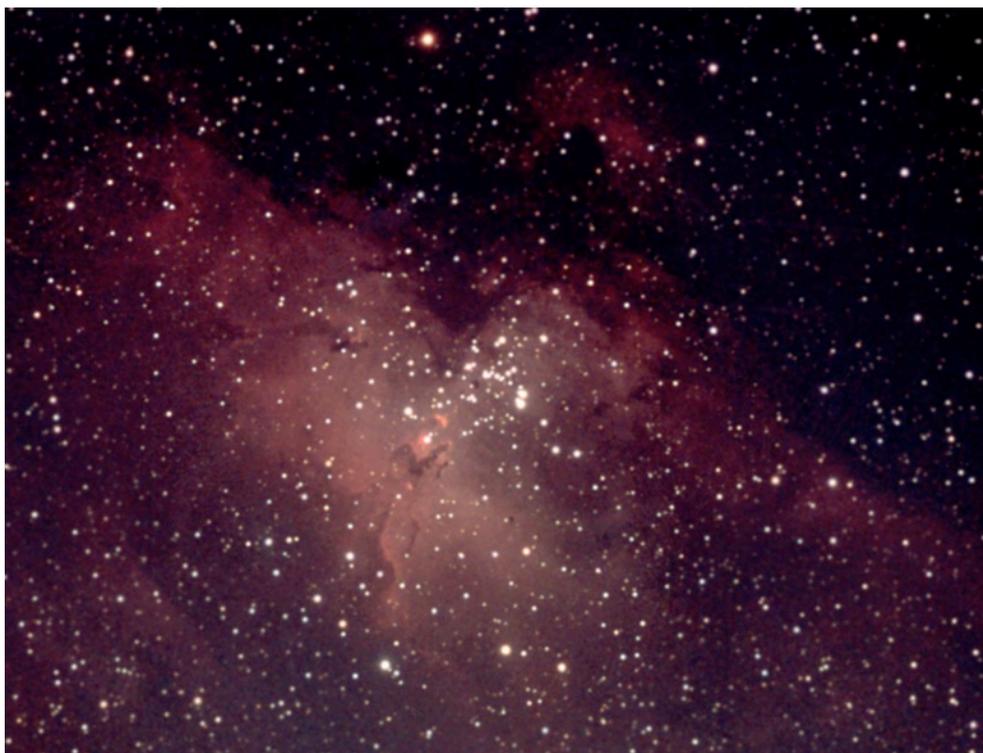




OASI News

The newsletter of the Orwell Astronomical Society



The Eagle Nebula 11x480 sec, ISO 400 *Photo: David Murton*

*It's OASI's 50th Anniversary on 29 July
Get you tickets now! See page 23*

Trustees: Mr Roy Adams Mr David Brown Mr David Payne
Honorary President: Dr Allan Chapman D.Phil MA FRAS

Astrophotographs 1

by David Murton

Wonderful skies last night (26 April) after the society meeting so spent a couple of hours from 11pm to 1am taking advantage!

These are the Siamese Twins aka NGC4567 & 4568. Two unbarred spiral galaxies in the Virgo super cluster they are about 60 million light-years away and are in the process of colliding. They are magnitude +10.9 and have an apparent size of 4.6' x 2.1' (small!).

Also seen is M58 a barred spiral galaxy and between them NGC4564 a magnitude +11.10 elliptical galaxy.

To the right¹ of the twins you can make out IC3578 another spiral galaxy at magnitude +14.39 and just 0.9 x 0.3 arcmin in size.

Canon 60Da camera on skywatcher 190MN telescope with NEQ6 mount.

15 light frames of 480 seconds plus darks, flats and bias frames. Processed in DSS and Gimp (I really must get myself a better program!).



¹ Editor's note: the picture is placed rotated 90° "Right" is at the top.

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Society Contact details

Observatory (meeting nights only)
See page 17 07967 519249
Email queries: info@oasi.org.uk
Yahoo group: <https://groups.yahoo.com/neo/groups/oasi/info>
Facebook: <https://www.facebook.com/groups/445056098989371/>
Twitter: @OASlpswich

The OASI Facebook pages are now proving very popular. Several non-members are active contributors.

Please send material for the OASI web site and newsletter e.g. observations, notices of events, general interest articles, to news@oasi.org.uk

Other contact details will be issued to members on a separate printed list or emailed directly to those who only receive the e-version of the News.

Access into the School Grounds and Observatory Tower

Please use the third gate into the school grounds by the gym.

Areas out of Bounds

Access to the Observatory is **only via the black door** at the foot of the Observatory tower, which leads to the staircase and thence to the spiral staircase up to the Observatory. If the black door is locked, please phone the observatory mobile, 07967 519249 during meeting hours.

Please do NOT explore other routes. When in doubt, ask or call the Observatory mobile.

Remember this is a school and straying into the main part of the school where the pupils reside would cause the society big problems and could see us losing the use of the observatory. Any member found to be anywhere other than the approved access route or the observatory area will face serious sanctions up to and including expulsion from OASI.

Please note that access time for all observatory member nights is after 20:15

The key to the toilets in the school gym is located in the seating area in the Belvedere room.

Articles for OASI News

News, pictures and articles for this newsletter are always welcome. Please send them to

news@oasi.org.uk

The CLOSING date is the 15th day of the month

Please submit your articles in any of the following formats:-

Text: txt, rtf, rtf, doc, docx, odt, Pages, pdf

Spreadsheets: xls, xlsx, OpenOffice/LibreOffice, Numbers

Images: tiff, png, jpg

Please send tables as separate files in one of the above formats.

If you don't feel up to writing a major article, perhaps you might write a short note for OASI News along the lines of *"This month I have mostly been observing/constructing/mending/reading/etc."*?

Articles win points! See page 25.

The full colour version is available from the OASI web site.

[Newsletter archive \[www.oasi.org.uk/NL/NL_form.shtml\]\(http://www.oasi.org.uk/NL/NL_form.shtml\)](http://www.oasi.org.uk/NL/NL_form.shtml)

Authors, please note that your articles will now be publicly available worldwide!

Reproducing articles from OASI News

If you plan to reproduce an article exactly as per OASI News then please contact the [Editor](#) – otherwise, as a matter of courtesy, please seek permission from and credit the original source/author. You may not reproduce articles for profit or other commercial purpose.

Committee 2017

Chairman	David Murton	Set overall agenda for OASI, Chair committee meetings, Press and publicity, Public appreciation of astronomy, Outreach activities.
Secretary	Roy Gooding	Outreach meetings (jointly with Chairman), observatory decoration.
Treasurer	Paul Whiting FRAS	Finance, Supervision of applications for grants, Visits by outside groups, Observatory tours, Public appreciation of astronomy (jointly with Chairman).
Committee	James Appleton	Committee meeting minutes, Web site
	Martin Cook	Membership, Tomline refractor maintenance & user testing
	Peter Richards	Lecture meetings, Email distribution lists
	Martin Richmond-Hardy	Newsletter
	John Wainwright	Equipment curator
	Mike Whybray	Astronomy Workshops, Child protection officer, Orwell Park School Astronomy Club.
	Avtar Nagra	Newbourne Observing Group
	Matt Leeks	Safety & security
Co-opted	Andy Wilshere	Librarian

Society Notices

Welcome new members

Dr Olaf Kirchner Gregory Schmidt

Committee Meeting

The next committee meeting will be on Tuesday 23 May at 8pm, Black Horse Public House.

Contacts

A printed list of Committee and other activity contacts is available from the Secretary or the Observatory. Email links are available in the A4 pdf version of this newsletter.

For general enquiries please email info@oasi.org.uk and your enquiry will be forwarded for action.

Signing in and out

Please ensure you sign in and out when visiting the Observatory and/or Newbourne.

This is for fire safety precautions and also provides an historic record.

OASI and BAA Events

For the latest event details, please see www.oasi.org.uk/Events/Events.php

There's a Google Calendar on the OASI web site with the latest dates (and corrections!). If you want to easily add OASI Events to your own computer/ phone/tablet calendar application click this button on the website Events page.



Download the OASI 2016 year planner from the web site. An A3 printer is advised.

For other astronomy news and astro pictures try our

Twitter feed <https://twitter.com/OASIpSwich>

Facebook page <https://www.facebook.com/pages/Orwell-Astronomical/158256464287623>

Subscribe to the OASI Yahoo group by emailing oasi-subscribe@yahoogroups.com

Date and Time	Location	Contact	Event
Weekly, every Wednesday, 20:15–22:00	Orwell Park Observatory	Martin Cook, Roy Gooding	General observation (weather permitting) using a variety of telescopes. Entry via the third gate left. NOT the main gate
Monday 29 May From 19:00	Newbourne Village Hall	Avtar Nagra nog@oasi.org.uk	Newbourne Observing Group
Wednesday 31 May 17:30	Burlington House Piccadilly London W1J 0DU	https://britastro.org/	Special General Meeting and Ordinary Meeting
Saturday 3 June 10:00	Cambridge	https://britastro.org/	Webb Deep-Sky Society Annual Meeting, Cambridge
Saturday 3 June 12:00–16:00 Set-up from 10:00	Kirton Recreation Ground IP10 0PW www.kirton-suffolk.info	Martin Richmond-Hardy g8bhc68@gmail.com	OASI stand & solar observing at Kirton & Falkenham Fete
Saturday 3 June	IOA, Cambridge	www.webbdeepsky.com/annual-meeting/	Webb-Deep Sky Society's annual meeting
Sunday 11 June 09:30	Kirton Recreation Ground IP10 0PW www.eswr.org.uk	Martin Richmond-Hardy g8bhc68@gmail.com	OASI stand & solar observing at E Suffolk Wireless Rally Admission £2
Monday 12 June From 19:00	Newbourne Village Hall	Avtar Nagra nog@oasi.org.uk	Newbourne Observing Group
Saturday 17 June (all day)	Burlington House Piccadilly London W1J 0DU	https://britastro.org/	BAA Comet Section meeting
Monday 26 June From 19:00	Newbourne Village Hall	Avtar Nagra nog@oasi.org.uk	Newbourne Observing Group + Workshop: Binocular collimation with Ray Larsen
Monday 10 July From 19:00	Newbourne Village Hall	Avtar Nagra nog@oasi.org.uk	Newbourne Observing Group

Date and Time	Location	Contact	Event
Saturday 15 July	Chelmer Valley High School, Chelmsford CM1 7ER	https://northessexastro.wordpress.com	NEAS Starfest
Monday 24 July From 19:00	Newbourne Village Hall	Avtar Nagra nog@oasi.org.uk	Newbourne Observing Group
Saturday 29 July 09:00–17:30	UCS, Ipswich	David Murton chairman@oasi.org.uk	Public access event. Major event to mark OASI's 50 th anniversary. Lectures by big-name speakers, exhibitions, trade stands and much more.
Monday 14 August From 19:00	Newbourne Village Hall	Avtar Nagra nog@oasi.org.uk	Newbourne Observing Group
21 August	USA	www.greatamericaneclipse.com	Total solar eclipse
Monday 28 August From 19:00	Newbourne Village Hall	Avtar Nagra nog@oasi.org.uk	Newbourne Observing Group
Wednesday 06 Sept	Felixstowe Ferry Golf Club		OASI 50th Anniversary Dinner
Monday 11 Sept From 19:00	Newbourne Village Hall	Avtar Nagra nog@oasi.org.uk	Newbourne Observing Group
Friday 20 October 20:00	Museum Street Methodist Halls,	Pete Richards lectures@oasi.org.uk	Lecture: Dr Sarah Hutton has kindly offered to come to speak to us about "AGNs (Active Galactic Nuclei)".
Monday 25 Sept From 19:00	Newbourne Village Hall	Avtar Nagra nog@oasi.org.uk	Newbourne Observing Group
30 Sept	Department of Physics, University of Birmingham		FAS Annual Convention and AGM
Friday 17 Nov 20:00	Museum Street Methodist Halls,	Pete Richards lectures@oasi.org.uk	Steve Hubbard and Malcolm Brown will be "Talk with ET? We think not."
Sat 09 Dec 2017, 05:30	TBC	James Appleton info@oasi.org.uk	Field trip to observe the graze of ZC1522. More info.

Newbourne Observing Group

Avtar Nagra nog@oasi.org.uk

We normally meet at Newbourne Village Hall, Mill Lane, IP12 4NP on the 2nd and 4th Mondays (with a few exceptions, like December and January).

The Newbourne Observing Group (The NOGs) is a good place to start for beginners. If you are thinking of buying a scope or binoculars, come and try before you buy and talk to owners about the strengths and weaknesses of particular models. If you've already splashed the cash, bring your new scope along to use or for advice on setting-up and adjustment. All welcome, with or without telescopes. We would like visitors to join OASI to enjoy the full benefits of membership.

The car park at Newbourne Village Hall has recently been much enlarged. OASI donated £100 towards this much-needed improvement.

Newbourne Observation Group Stargazer's guide

On the first meeting each month Bill Barton will give a short presentation of what can be viewed in the following 4 weeks. For armchair stargazers (on those cloudy nights) there is a small branch of the OASI Library held at Newbourne and a copy of the full catalogue.

NOG Meetings in 2017

16 Jan	30 Jan	13 Feb	27 Feb (S)
13 March	27 March (S)	10 April	24 April(S+W)
15 May	29 May	12 June	26 June (S+W)
10 July	24 July (S)	14 Aug	28 Aug (S)
11 Sept	25 Sept (S)		

We open up for all meetings at 7pm. Star Guide (S) and Workshops (W) start at 8pm.

Please check the web site diary for any changes during the year.

Astronomy Workshops

Contact Mike Whybray

Location: Newbourne Village Hall IP12 4NP

Doors open at 7:00pm.

Workshops start at 8:00pm

Binocular collimation – Monday 26 June

Run by: Ray Larsen and Mike Whybray

Do your binoculars give you double vision, with the images refusing to merge seamlessly into one? At previous workshops, Ray has described the design of his optical bench for collimating pairs of binoculars, and realigned a few for people. I've persuaded Ray to give you another chance to have your binoculars tested for collimation accuracy, and where possible adjusted for free to bring them back into alignment. Note that this is at your own risk - but what use are a pair that gives you double vision anyway? We will give a brief introductory talk for those who haven't seen this all before. Mike W.

If you are a new OASI member, or haven't been to one of these informal workshops before, they are a mixture of events of different characters including beginners talks, interactive workshops, films, etc., suitable for all. They are also a chance to chat with other members over a cup of tea and a biscuit, in a venue rather warmer than the observatory dome on a winter's night!

Given a clear night, we can make use of the field for a workshop or continue afterwards with some observing.

Do you have a subject you could workshop? You could do a short one, or share the effort with a partner. Drop Mike Whybray a line! workshops@oasi.org.uk

Lecture Meetings

Contact: Peter Richards lectures@oasi.org.uk

These take place in [Museum Street Methodist Halls](#), Upstairs room, Black Horse Lane, Ipswich

20 October

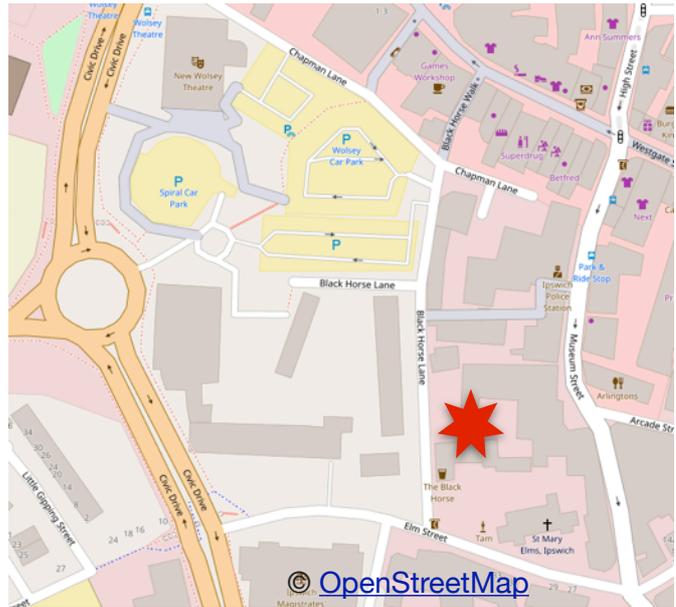
Dr Sarah Hutton has kindly offered to come to speak to us about *AGNs (Active Galactic Nuclei)*.

Sarah also studies Galaxy Evolution.

She is a fully qualified teacher and lectures to primary and secondary schools and is very active in promoting the public understanding of science.

17 November

Steve Hubbard and Malcolm Brown "Talk with ET? We think not."



Parking

Please arrive early to ensure entry to the lecture venue. At the request of the venue's management we will lock the main entrance door before the start of the talk. The lock is a front door latch-type so it will be easy to leave the building (in an emergency for example) but you will not be able to get in.

There is fairly ample car parking at the venue case and you can park in any of the marked bays except for the row - with numbers painted on the ground - outside the house on the North (end of the car park (the left hand side as you look form the road)). Just in case you can't find a suitable parking space you can find an alternative car parks at the end of Black Horse Lane and in Elm Street. These alternative car parks charge: at the time of writing the Elm Street car park is cheaper. In both cases remember to select the night rate option at the ticket machine.

DASH Astro Events – 2017

See <http://dash.moonfruit.co.uk> for the latest details.

All DASH Astro observing sessions will take place at WESTLETON COMMON. ASOG observing sessions and locations may be arranged at the time of observation.

Unless stated all group meetings will take place at WESTLETON VILLAGE HALL from 7:30 pm

Date	Event
03.06.2017	Dr Paul Whiting – Report on the New Horizon space mission
18.06.2017	International Sun Day - Solar Observing - RSPB Minsmere 10:00 - 15:00
02.09.2017	David Murton - Beginners Observing - with Q&A "Ask the Panel"



The Night Sky in June

Martin RH

All event times given are for the location of Orwell Park Observatory 52.0096°N, 1.2305°E

Times are in BST (GMT+1) unless otherwise stated.

Moon

Source: <http://heavens-above.com/moon.aspx>

New Moon	1st Quarter	Full Moon	Last Quarter
24 June 03:31	01 June 13:42	09 June 14:10	17 June 12:33

Sun, Moon and planets

Source: <http://heavens-above.com/PlanetSummary.aspx>

Object	Date	Rise	Set	Mag.	Notes
Sun	1	04:41	21:06		Summer solstice Jun 21, 05:24
	30	04:39	21:18		
Moon	1	01:37	12:20		
	30	12:24	00:31		
Mercury	1	04:05	18:54	-0.2	Perihelion Jun 19
	30	05:24	22:03	-1.2	Superior conjunction Jun 21
Venus	1	03:12	16:31	-4.2	Maximum western elongation Jun 03
	30	02:25	17:22	-4	Aphelion Jun 12
Mars	1	05:43	22:25	1.7	
	30	05:19	21:47	1.7	
Jupiter	1	15:24	02:47	-2.1	
	30	13:34	00:53	-1.9	
Saturn	1	21:57	05:51	0.1	Opposition Jun 15
	30	19:54	03:48	0.1	
Uranus	1	03:05	16:45	5.9	
	30	01:13	14:57	5.8	
Neptune	1	01:55	12:40	7.9	
	30	23:58	10:46	7.9	

Asteroids

Source: <http://heavens-above.com/Asteroids.aspx>

Vesta fading from magnitude 7.2 is currently visible in Gemini.

See <http://heavens-above.com/MinorPlanet.aspx?desig=4&>

Ceres fading from magnitude 9.1 in Aries <http://heavens-above.com/Asteroids.aspx>

Occultations during June 2017

James Appleton

The table lists the only occultation during June under favourable circumstances. The event should be readily visible in small telescopes or binoculars. The first two columns list the date and time (UT) of the occultation. Column three gives the phenomenon: 'D' denotes a disappearance and 'R' a reappearance. The table lists circumstances of disappearances and reappearances as dictated by the visibility of each phenomenon (determined by altitude, lunar phase, etc). Column four details the lunar phase ('+' for waxing and '-' for waning). Columns five and six give the altitude of the Sun and the star, both in degrees. (A negative solar altitude means that the Sun is below the horizon.) Columns seven and eight provide the star's magnitude and catalogue number.

The data relates to Orwell Park Observatory, but will be similar at nearby locations.

Please note that times are shown in UTC. Add an hour for BST.

Date	Time (UT)	D/R	Lunar Phase	Sun Alt(°)	Star Alt(°)	Mag	Star
02 Jun	22:51:15	D	0.64+	-14	22	6.8	ZC 1732

Comets due in 2017

Bill Barton

Here are the comets listed in the BAA Handbook with single figure peak magnitudes:-

- 41P/Tuttle-Giacobini-Kresak, peak magnitude 3 in April and **visible from the UK from January to July.**
- Johnson (2015V2), peak magnitude 7 in June and **visible from the UK from January to July.**
- 96P/Machholtz will peak at magnitude 2 in October, but will not be visible from the UK.

Meteor Showers

Source: **BAA Handbook 2017 p97-99**

Shower	Limits	Maximum	ZHR at Max	Notes
Ophiuchids	May 19 – July	Jun 10 Jun 20	5	Weak activity from several radiants. Best for southern observers

Visible ISS passes $\geq 15^\circ$ max altitude

Martin RH

Source: <http://heavens-above.com/PassSummary.aspx?satid=25544>

Times are BST. Predictions are approximate (data taken on 16 May) due to craft adjustments. Check the day before.

Date	Mag	Start			Highest point			End		
		Time	Alt.	Az.	Time	Alt.	Az.	Time	Alt.	Az.
01 Jun	-3.1	00:23:06	10°	W	00:26:05	34°	SSW	00:26:05	34°	SSW
01 Jun	-3.8	21:54:12	10°	W	21:57:31	86°	S	22:00:49	10°	E
01 Jun	-3.6	23:30:42	10°	W	23:33:54	48°	SSW	23:35:19	27°	SE
02 Jun	-3.8	22:38:19	10°	W	22:41:36	64°	SSW	22:44:34	12°	ESE
03 Jun	-2.2	00:15:07	10°	W	00:17:12	20°	SW	00:17:12	20°	SW
03 Jun	-2.8	23:22:32	10°	W	23:25:29	30°	SSW	23:26:29	25°	S
04 Jun	-3.3	22:30:04	10°	W	22:33:12	43°	SSW	22:35:49	14°	SE
05 Jun	-1.4	00:07:45	10°	WSW	00:08:26	11°	SW	00:08:26	11°	SW
05 Jun	-2	23:14:33	10°	W	23:16:55	18°	SW	23:17:47	17°	SSW
06 Jun	-2.5	22:21:51	10°	W	22:24:42	27°	SSW	22:27:09	12°	SSE
07 Jun	-1.3	23:08:06	10°	SW	23:08:11	10°	SW	23:08:16	10°	SW
08 Jun	-1.7	22:13:56	10°	WSW	22:16:02	16°	SW	22:18:07	10°	S

Iridium flares

Too many to list but see <http://heavens-above.com/IridiumFlares.aspx>

Paul's Astronomy Podcast for June

Paul Whiting FRAS Podcast, April 2017 www.oasi.org.uk/2017_06_pod.mp3

David's Radio Broadcast

On the 1st Tuesday of the month, 1.40pm on the Lesley Dolphin show on BBC Radio Suffolk – now digital (channel 10c) and FM 103.9 (Ipswich), 104.6 (west Suffolk), 95.5 (Lowestoft), 95.9 (Aldeburgh).

Bill's Radio Broadcast

ICRFM (Ipswich Community Radio) 105.7 MHz at about 08:25 in the morning of the first Wednesday of each month. I aim to cover what there is to see in the sky and then a little bit on something topical.

ICRFM is also available to listen to over the Internet and there is a listen again option on their website. www.icrfm.com

Snippets from the Interweb

LOOK UP, OUR NIGHT SKY WILL SOON CHANGE FOREVER

In five years, two enormous stars will collide, intensifying their collective brightness by a factor of 10,000 and instantly becoming one of the brightest stars in the sky.

<http://www.physics-astronomy.com/2017/05/look-up-our-night-sky-will-soon-change.html>

Southwold Arts Festival – Shakespeare & Astronomy

Michael Rowan-Robertson, with the help of an actor, will demonstrate that Shakespeare's allusions to astronomy show that he had a deep knowledge of the night sky and its motions". This takes place on Wednesday June 28 at 11am at St Edmund's Hall. Tickets are £7.50. The box office is now open Tuesdays to Fridays from noon to 3pm. Phone 01502 722572.

Webb-Deep Sky Society's annual meeting

Andrew Robertson

Member: Webb Society, Norwich AS, Breckland AS, SPA, BAA

The Webb-Deep Sky Society's annual meeting to be held at the IOA, Cambridge on Saturday 3rd June 2017. This is our 50th anniversary and we have an excellent line of speakers as per the attached program.

There's no need to book in advance. Member or not, you're all welcome to turn up on the day.

Entry starts from £5 for members and £10 for non-members. Just add another £5 if you'd like lunch provided, but *we only have 80 lunch tickets available*, so come early to be sure of getting lunch. *Alternatively bring your own (drinks are provided)*. The doors will open at 9:30am.

Link for more info: www.webbdeepsky.com/annual-meeting/

OASI Member of the Year Competition

- Open to any non committee member (at time points earned)
- Runs from 1st September to 31st August each year
- It is the members responsibility to check that they have been credited the points for a particular event

Activity	Points	Activity	Points
Helping at an OASI outreach event	10	Writing a newsletter article (per page)	3
Giving a workshop/monthly sky notes	20/10	Introducing a new member	5
Astro photo published	2		

Top 5 Members' points to date

Bill Barton	145
Andy Gibbs	78
Joe Startin	55
Mike O'Mahoney	48
Alan Smith	68

Write a short article for the magazine, e.g.

Bought some new astronomy kit? Tell us about it – successes and pitfalls.

New: You now get 2 points for a published astrophoto.

Martin RH

Come and help at one of our outreach events and earn 10 points. You don't need to be an expert!

FAS News - Federation of Astronomical Societies

30th September 2017 is the date of the next FAS Annual Convention, which will be held again this year at the Department of Physics, University of Birmingham. There is an exciting programme of speakers in preparation, so be sure to make yourself free that weekend.

At the convention we will be holding the AGM, where there will be a number of posts with no current candidate. If you would like to help the FAS and volunteer for a role, please let us know. Please get in touch with me if you would like an informal chat in advance.

Public Liability Insurance

Societies that take PLI will have received their policy details for the new 'year'. If you have not received this, please get in touch with the PLI secretary (pli@fedastro.org.uk)

Newsletter

Contributions for the FAS Newsletter would be welcomed. At present we don't have much news from societies, so please send what's happened and what's coming up and any other articles of general interest for inclusion to our new editor Owen Brazell - please send items to newsletter@fedastro.org.uk

And Finally

Our next FAS Council Meeting will take place on May 27 - if there are things that you think the FAS should be considering or doing, please let us know and we'll put them on the agenda.

Clear skies,

Callum Potter, President, Federation of Astronomical Societies

president@fedastro.org.uk

Printing of OASI News to cease

Martin Richmond-Hardy

As I warned last month, due to the increased cost of printing and mailing OASI News, July's edition will be the last one available in printed form.

Thereafter you will need to download a copy from our web site. You will receive a notification of when it is available via Twitter, Facebook, Yahoo and email.

If you have an email address but haven't told the [Membership Secretary](#), please do so membership@oasi.org.uk. Also please advise of any changes to your email address.

I would like to take this opportunity of thanking Eric Sims, who has done the mail-out of the paper copies for many years, and Paul Whiting, who collects the copies from the printer and delivers them to Eric.

Who Closed The Nacton Anchor Public House?

Bill Barton FRAS



A Village Tale

At the time of writing the Suffolk Campaign for Real Ale's (CAMRA) website[1] gives the following information for the only nineteenth century public house in Nacton:-

"The Anchor is said to have closed down during World War One, supposedly by order of a local landowner and MP, Mr Tomline.

According to local legend, his wife was accosted by a group of somewhat happy members of the soldiery while riding her horse and invited in for a drink. Being of good character, she declined, but her husband was less happy and decided the place should be closed. As a result he was on occasion greeted in parliament with the opposition cry of

"Who closed the Nacton Anchor then?"



Inaccuracies in the Story

Although the CAMRA website goes on to point out the errors in this story I will also highlight them here:

- By the time the World War One broke out in 1914 Tomline had already been dead for a quarter of a century.
- Tomline was never married, so had no wife.

But sometimes local legends can have a basis in truth, here is what I have managed to unearth. Let us begin by examining the evidence available.

Ordinance Survey maps

covering Nacton to a scale of 1:2500, sufficient to show individual buildings, are available online[2] for the following dates:-

1881

1904

1926

1967

Trade Directories

covering Suffolk are available for the period (some online[3]) and here are some relevant details:-

Post Office, 1865, Margetson Daniel, Anchor. Evered Frederick, carpenter.

Harrod's, 1873, Margetson Daniel, vict. the "Anchor".

White's, 1874, Frederick Evered/Joiner & builder, and victualler.

Kelly's, 1879, Frederick Evered, Anchor, & carpenter.

White's 1885, Evered, Frederick, clerk of works to George Tomline, Esq., farmer and victualled, Anchor.

Kelly's 1888, Evered Fredk. Anchor P. H. & carpenter.

White's, 1891, Evered, Fredrick, farmer and vict. Anchor.

Kelly's, 1892, Working Men's Club & Reading Room (John McLean Wiseman, sec), Savage, Robert, coffee tavern, Working Men's Club. National School erected 1820 and enlarged 1884. John McLean Wiseman, master.

Kelly's 1896, as Kelly's 1892.

Kelly's, 1900, National School (mixed). H. B. Hooper, master.

Kelly's, 1912, private resident, Spencer Dixon, The Moorings. Public Elementary School erected in 1911 (at a cost of £1700). Thomas William Collins, master.

Census and other information

is available for Nacton, and here, again, are some relevant details (in alphabetical order):-

Dixon, Spencer

1861 Census, Farm 161 Acres of 7 Men & 3 Boys

1886 Marriage, Ipswich

1871 Census, Farm 225 Acres of 8 Men & 7 Boys

1881 Census, Accountant

1891 Census, Clerk School Board

1901 Census, Accountant Private & School Board Clerk Teacher

1911 Census, Retired Accountant

Dixon's name also appears on the website of the 'Ipswich and Suffolk' club, located in Nortgate Street, Ipswich, he was Chairman at foundation in 1885 till '87 and from 1888 to '89 and finally from 1896 to 1906. In 1922 the his executors disposed of 19 houses in Parkeston, Essex.

Evered, Frederick Thomas

1861 census, Nacton, age 35, housejoiner (?)
1871 census, Nacton, age 45, builder
1881 census, Riby, Lincolnshire, age 53, clerk of works
1891 census, living at the 'Anchor Inn' in Nacton, age 65, builder & innkeeper
1893, died in Ipswich, age 67, described as a 'retired joiner'.

Margetson, Daniel

1818, born, Sutton, Suffolk.
1861, Innkeeper, age 43.
1871, Publican, Anchor Inn, Nacton, age 53.
1878, died in Ipswich age 61.

Wiseman, John McLean

1863, born Sheerness, Kent
1881, census, student, London
1886, marriage in Eton
1891 census, School House, Nacton, elementary school teacher
1901 census, estate clerk, Suffolk
1911 census, estate clerk, Suffolk

Local Newspapers

(in this case the "Ipswich Journal" and "Evening Star")

"Ipswich Journal", page 4, Saturday 10th October 1891

Messrs. GARROD, TURNER and SON
NACTON

About 4 miles frm Ipswich.

On WEDNESDAY NEXT, 14th October, 1891, at 12 o'clock precisely.
GARROD, TURNER and SON will SELL by AUCTION, by direction of
Mr. FREDK. EVERED, whose tenancy expires, the Live and Dead
FARMING STOCK
at the Anchor-Inn, including
Capital Chestnut Cart Mare,
Bay Hackney Cob, Poultry.

Tumbril on iron arms, two dog carts, iron plough and harrows, wood roll, turnip cutter,
chaff cutter, and hand tools, also about 200 lots of
FURNITURE.

and PUBLIC HOUSE requisites, comprising semi-grand PIANOFORTE by
Broadwood, 7 octave PIANO by Collard, bedroom furniture, kitchen and dairy utensils,
glass, china, quadrant pull BEER ENGINE, by Farmiloe and Son, copper and pewter
measures, stone spirit casks, and miscellaneous effects.

Catalogues may be had of the Auctioneers, 1, Old Butter Market, Ipswich.

"Ipswich Journal", page 8, Saturday 7th November 1891,

NACTON AND LEVINGTON READING ROOM AND CLUB.

One of these useful and ever popular village clubs has been recently formed for the
benefit of these two villages, under the patronage of the Right Hon. Lord De Saumarez
and Captain E. G. Pretymann, who are joint presidents for the ensuing year. There is an
influential Committee formed by gentlemen of these two parishes, of whom Mr. William

Ash is the esteemed and respected chairman, whilst Mr. J. McLean Wiseman has kindly undertaken the duties of hon. secretary, and has shown himself a most enthusiastic and energetic worker. Men and boys over 16 years of age resident in Nacton and Levington are eligible for membership of the Club. The inaugural concert in connection with the Club, and in aid of its funds, took place on Friday, at Seven Hills Schoolroom, when Mr. E. Copeland's concert party, from Ipswich, occupied the platform, and carried out a very pleasing and successful programme of vocal and instrumental music....

"Ipswich Journal", page 4 & 5, Saturday 4th February 1893

Editorial column highlights that Wickham Market is known to be a centre of political free thinking where Conservative speakers often received poor treatment and a recent occasion was no exception. Captain Pretyman was equal to each of his opponents and one of them wincing under his verbal attack muttered "Nacton Anchor" which gave Pretyman the opportunity to fully explain his actions on the matter. The verbatim account is reported on page two of the same issue. Captain Pretyman was at three Conservative Party political rally meetings that week and on Thursday (2nd February) evening he was in Wickham Market where, in response to a heckle from the audience, he told the meeting the story of the closing of the Anchor Public House. Nacton and Levington formed one parish and between the two villages there were three public houses, one was owned by him and he desired to do something for adult education in Nacton, so he held a meeting with all the villagers laying out his plan. Not a single villager objected. The licence for the public house was let go and he turned the building into a village club room. He undertook to provide newspapers and other things in return for the villagers paying one penny per week to use it. The licensee who lost his living was paid forty pounds a year (a sum equal to the rental income from the house) by Captain Pretyman in compensation.

"Ipswich Journal", page 3, Saturday 2nd March 1895

NACTON: ENTERTAINMENT.- On Monday evening a miscellaneous entertainment in aid of Nacton and Levington Club was given at Seven Hills School-room. An interesting programme was arranged, which was listened to by a large audience. Misses Watson, Cox, and Kent, and the Revs. A. H. Watson and A. J. Cooney, and Messrs. Kent, Last, and Nibloe contributed the musical part; Mr. Hancox manipulated a magic lantern; and Miss Kent and Messrs. F. N. and E. A. Kent performed a short farce, which was much appreciated. Messrs. Ash and Hume worked hard to ensure the success of the entertainment, which resulted in the addition of a handsome amount to the institution.

"Ipswich Evening Star", page 2, Tuesday 9th July 1895

Report of an open air political meeting held in Wickham Market the previous evening. A question was asked "You shut up Nacton Anchor. Will you explain it?" Captain Pretyman: Yes; I shut it up because there were two other public-houses in the place, and they wanted a village club. He explained the circumstances connected with the closing of Nacton Anchor, and went on to say that what he wanted was liberty and not a local Veto Bill. [Applause]

"Ipswich Journal", page 7, Saturday 17th October 1896,

ORWELL PARK ESTATE
PRESENTATION TO THE AGENT

Saturday last was the day for the annual payment of the cottagers' rents on the above estate..... More than 200 cottagers sat down at 3 o'clock, in a large marquee which had been erected close to the Nacton Club House, to a well-served dinner supplied by Mr. and Mrs. Hussey who have only recently entered on their tenancy of the premises.....

Other data

The Suffolk Record Office has a folder containing late nineteenth century political election material and item number HD2272/308/21 is a flyer for the parliamentary General Election that was held locally on Wednesday 17th July 1895. It is on behalf of Robert Lacey Everett, the sitting Liberal Party member for the Woodbridge constituency attacking his rival the Conservative candidate, Ernest George Pretyma for closing the Nacton Anchor. (A reproduction of the flyer is attached at the end of this article.)

Probate records show that Colonel Tomline's will was proved on 9th December 1889 (£353,593 1s. 1d.), but was re-proved in October 1892 (£345,260 10s. 9d.) and finally again in August 1901 (£345,996 6s. 1d.).

Interpretation of Evidence

Map evidence gives us low time resolution information for Nacton village. In 1881 a building is described as the Anchor public-house, in 1904 a 'Village Club', and from 1926 a private house, initially "The Moorings" and, from 1967 "Anchor House". The maps of also show a village hall appearing between 1904 and 1926, possibly built in 1920 on land and with money donated by Captain Pretyma (according to the Nacton Village Hall website).

From the Trade Directory evidence we know the change from public-house to Working Men's Club took place between 1891 and 1892, and that by 1912 the building was a private house. The Kelly's of 1892 is pivotal, it tells us that the building was in use as a "Working Men's Club" and had a "coffee tavern". The club secretary was John McLean Wiseman and the coffee tavern was run by a Robert Savage.

The newspaper evidence tells the public house closed before mid October 1891, and that subsequently the building was a 'Village Club'.

The re-proving of Colonel Tomline's will hints at difficulties in closing his estate. So it may be possible that Captain Pretyma saw the 'village club' as a vehicle for disposing of Colonel Tomline's extensive library?

The Parkeston house sale and chairmanship of the 'Ipswich & Suffolk' club denote Spencer Dixon as being a 'man of substance'. Furthermore he married Frances Amy Georgina Cobbold Aldrich (1841 - 1905), of the Cobbold brewing dynasty in 1866.

Discussion

Map evidence indicates that a public house existed in Nacton, but that it changed into a 'village club' and then a private house.

Was the name 'The Moorings' which was adopted when the building went from being the "Working Men's Club and Reading Room" to a private house deliberately chosen to dissociate it with its previous (possibly failed?) use? Alternatively the name may have just been chosen because there is an anchor carved into the lintel over the front door.

The somewhat short period of around two years from Tomline dying in 1889 and Pretyma closing the Anchor public house in 1891 possibly suggests that Pretyma had the intention of closing it all along and possibly even before inheriting?

The attempts made to gain political advantage over Pretyma in the 1895 General Election some four years after the closing of the Anchor suggests that the closure event was perceived to be embarrassing for Pretyma?

If the alleged harassment incident took place then it would have been before Captain Pretyma was married and possibly while he was only courting. Maybe Pretyma felt the need to take action over the incident, if it happened, to assuage the feelings of his intended wife and family, and so that the proposed marriage could go ahead? But then surely Pretyma would have closed

down the public-house 'in anger' and spending money to convert the building to a 'club' and monetary compensation to the tenant doesn't stand up?

Naturally, all the villagers agreed to Captain Pretyman's plan, as laid out at the village meeting, an overwhelming majority of the, would either have worked for Pretyman, rented their home from him or did business with him or a combination of all three

We do not know how much pressure, if any, Captain Pretyman brought to bear on Wiseman in order for him to become secretary of the 'village club'?

From other documents in the Suffolk Record Office folder we find that Captain Pretyman used the "Ipswich Journal" printing press for his election communications, this hints at a possible link between between the two and so reporting in the "Ipswich Journal" of Captain Pretyman's political activities may have been coloured by such a link, should it exist.

The 'local Veto bill' referred to at the end of the "Evening Star" passage, is, I believe a reference to the Sunday Closing Bill which was before the British parliament. It made it into law in Wales as the Sunday Closing (Wales) Act 1881, but was rejected for England. The act required the closure of all public houses in Wales on Sundays and, no doubt, would have been something similar in England.

Conclusions

I think we can draw the following conclusions:

1. George Tomline did not close down the Nacton Anchor, it was Ernest Pretyman.
2. He was a local MP, and major local landowner.
3. Pretyman didn't marry until 1894 so the part about his wife can't be true, although it might refer to his fiancée.
4. The Anchor was closed in 1891 so the war referred to isn't World War One, but might be the Second Boer War (1899-1902)?
5. There were instances of Pretyman being heckled by the call "Who closed the Nacton Anchor then?" Whether this also happened in parliament I cannot say.
6. We can also be reasonably sure that this 'village club' failed as an enterprise because the building was in use as a private residence before 1912 and Pretyman didn't die until 1931.

The building at the centre of these events still stands in Nacton village. It is the last building on the left as you go through the village from the 'Seven Hills' direction towards Orwell Park just before reaching the triangle with the War Memorial on it.

Summary of People Involved (in alphabetical order)

Bridgeman, Lady Beatrice Adine, Captain Pretyman's wife (2nd December 1870 - 27th June 1952), daughter of George Bridgeman, 4th Earl of Bradford, married to Captain Pretyman at St. George's, Hanover Square, London on 28th June 1894.

Evered, Frederick (ca. 1826 - 26th February 1893) carpenter, joiner and landlord of the Anchor in 1891.

Everett, Robert Lacey (28th January 1833 - 21st October 1916) Liberal party Member of Parliament for Woodbridge 1885-6, 1892-5 & 1906-10.

De Saumarez, James St Vincent, 4th Baron de Saumarez (17th July 1843 - 25th April 1937), British diplomat and peer who sat in the House of Lords for forty five years. Lived at Broke Hall adjacent to Orwell Park.

Dixon, Spencer (ca. 1837, Felixstowe - 27th January 1922, Nacton), lived at 'The Moorings', Nacton.

Pretyman, Captain Ernest (13th November 1860 - 26th November 1931), Colonel Tomline's nephew and heir. Conservative party Member of Parliament for Woodbridge 1895-1906 and Chelmsford 1908-23. Lived at Orwell Park from 1889.

Tomline, Colonel George (3rd March 1813 - 25th August 1889), nineteenth century politician, art connoisseur, bibliophile and owner of Orwell Park from 1848.

Wiseman, John McLean (January 1863, Sheerness, Kent - June 1954, Samford, Suffolk), Orwell Park Estate employee. Census records from 1891 onward show him living in Nacton, Churchwarden at St. Martin's, Nacton.

ELECTORS OF WOODBRIDGE DIVISION

Read what the son of poor Evered, late tenant of Nacton "Anchor," says about Captain Pretyman:

To the Editor of the "Suffolk Times and Mercury."

DEAR SIR,

I notice in the report of Captain Pretyman's speech at Wickham Market, that he is now boasting of how many small allotments he has let on his estate, but he does not say what he lets them for. Let him tell his audience how much income he receives from these 400 allotments, and then compare the charge with what he receives from any of his farm tenants for the same quantity of land. They will see which pays him best.

Again, one of his audience, at the same meeting, said to him, "You shut up Nacton Anchor," and he replied by a statement that there were already *two others* in the place. What does he mean by "place." Everyone living near Ipswich knows perfectly well that the Anchor was the only public-house in Nacton. He took good care not to give a direct answer to the question. As the son of the late tenant, I could explain it, if he dares not; also the way he treated my late father when he left the house.

'Tis true he called a meeting as to the "advisability" of closing it (reporters were not admitted), and directly told them that the place was his, and he could do what he liked with it, and intended closing it. Who could deny him? Of course his own labourers would not be foolish enough to advocate it then, otherwise we can all guess what it would mean to him. But let him have a secret ballot as to the "advisability" of *opening* it, and then see what the verdict would be.

Let him state what his average attendance is at his so-called "Village Club."

What would he do with the "Ship" at Levington, or the "Shepard and Dog" at Foxhall, if they were his? Why, the same as the Nacton Anchor.

I hope you will insert this (if space will allow) in justice to his Wickham Market audience. I can fully substantiate all I have said, and hope Captain Pretyman will see this.

I am, &c.,
C. EVERED

Culford Hall Works, Bury St. Edmunds,
July 9th, 1895.

This is the man about whom his own paper, the "Journal," now says:-

"Vote then for Captain Pretyman, who will not interfere with your right to a Glass of Beer."

~
VOTE for EVERETT,
WHO FREED THE HOME BREWED

~~~~~  
VOTE for EVERETT

Who would free the Publican from the Brewer, and so give you better beer at a cheaper price.

## References

- [1] [www.suffolkcamra.co.uk/pubs/pub/1702](http://www.suffolkcamra.co.uk/pubs/pub/1702)
- [2] <https://www.old-maps.co.uk/#/Map/621500/240500>
- [3] [specialcollections.le.ac.uk/cdm/directories/collection/p16445coll4](http://specialcollections.le.ac.uk/cdm/directories/collection/p16445coll4)

## Library

**Andy Willshire**

This is another little bit of information from the library that was found trawling through 'Astronomy and Astrophysics'.

### **Galactic core kicks out supermassive black hole.**

NASA/ESA Hubble space Telescope with the aid from an international team of astronomers have found a supermassive black hole that has been thrust out from an elliptical galaxy 3C186, which is about 9 billion miles from Earth, and is a result of two galaxies merging 1-2 billion years ago. Each of the galaxies had a black hole which when they merged, forced the accumulative single black hole formation out by gravitational waves. This was caused by the two galaxies, having different masses and rotation rates, forming gravitational waves stronger in one direction. This hypothesis is substantiated by crescent shaped tidal tails. These are thin extended areas of stars and interstellar gas that stretch out from a galaxy into space. This is considered as the first known runaway black hole. The energy necessary to create this scenario was equivalent to  $100 * 10^6$  supernovae detonating concurrently.

Images were taken by the Hubble telescope of the galaxy 3C186 which when viewed by astronomers were considered atypical. A vivid quasar was noted not as usual at the centre of the galaxy, but at 35,000 light years from the core, at a speed of  $7.5 * 10^3$  kilometres per hour. To give an indication of how fast this is, it could journey from the Moon to Earth in three minutes.

The co-author of the paper Stefano Bianchi considered that their observations have lead them to consider that supermassive black holes can merge and that evidence is available for stellar mass black hole collision.

The group are seeking more time with several telescopes, including the Hubble and the Atacama large millimetre/submillimeter array. They would like exact measurements of both the speed of the surrounding gas disc and the black hole.

### **References:**

Available at:

<http://www.spacetelescope.org/news/heic1706/>

<http://sci.esa.int/hubble/58933-hubble-detects-supermassive-black-hole-kicked-out-of-galactic-core-heic1706/>

## The heliocentric model of Copernicus

### A continuation of the Life and Times of Nicolaus Copernicus.

Part I can be found in January's edition of OASI news.

#### Andy Willshire

Copernicus developed his mathematical representation of heliocentrism and published his findings in 1543. His model suggested that the sun was stationary and the Earth and other planets revolved around in a circular fashion, and at uniform speeds. This idea was first broached around the third century BC by Aristarchus of Samos, an astronomer and mathematician. This however received little attention apart from some criticism by Archimedes. This was a break away from the Ptolemaic, or Geocentric model that had the Earth at the centre of the Universe, with the sun, moon, planets and stars rotating around it. Claudius Ptolemy resided in Rome about the 100A.D. period, and produced a model that he said would accurately demonstrate the motions of all structures visible in the night sky. This became the prime model for the structure of the solar system, until the work of Copernicus, who having considered the philosophical significance of Ptolemy's work, continued with what he believed were mathematical and astronomical proofs. These culminated in a set of astronomical tables which allowed past and future star and planet positions to be calculated. The results of this in truth however were little better than those using the Ptolemaic system.

The major features of this theory were:

All motions in the heavens were uniform, and either cyclic or epicycles, with the sun at or near the centre of the universe. The model continued with the known planets starting with Mercury and ending with Saturn and the fixed stars moving around the sun. He considered that the Earth's motion explained retrograde movement and that the Earth had a daily rotation, yearly revolution and axial tilting. These ideas were written in his '*Commentariolus*' and handed out to his friends around the year 1510.

His major work '*De revolutionibus orbium coelestium*', was published in the year of his death (1543), even though he had produced the work several decades before. In the introduction he dedicated his book to Pope Paul III, suggesting that the Church could amend the Julian Calendar with more accuracy and provide the reform to it that they required. This work was then subdivided into six smaller books.

Few astronomers were satisfied by the Copernican treatise from its publication to the 1700s, even though it had a good circulation. The stumbling point broached by Copernicus' contemporaries was that they were not ready to acknowledge that the earth actually moved. It was to be a further generation before another group of astronomers accepted heliocentric cosmology. Both Galileo (1564-1642) and Johannes Kepler (1571-1630) took on board Copernicus's hypothesis and tried to improve it.

Today, the Copernican ideas have several advantages:

- (I) It accurately predicts the relative distances of the planets from the sun.
- (II) The Earth's axis is not perpendicular to the plane of its orbit, which allows for the seasons.
- (III) It gave a good explanation for the apparent retrograde action of the planets. This was termed parallaxic displacements, which is defined as an obvious change in a star's position, the origin of which is the movement of Earth in its orbit. Then, over the course of a year a star follows a small path in the sky called a parallaxic ellipse.

#### References:

<https://en.wikipedia.org/wiki/Heliocentrism>

[http://www.daviddarling.info/encyclopedia/P/parallaxic\\_displacement.html](http://www.daviddarling.info/encyclopedia/P/parallaxic_displacement.html)

## OASI 50th Anniversary Convention, 29 July 2017

On Saturday 29 July 2017, we will celebrate the 50<sup>th</sup> anniversary of OASI with an astronomy convention. The venue is the Waterfront Building, University of Suffolk. There will be lectures by prominent astronomers, displays by astronomy societies and trade stands.

**Venue:** The Waterfront Building is an ideal venue in a central location on the popular waterfront area of Ipswich. It boasts large lecture theatres together with abundant exhibition space on two levels. There is a café on site and a plentiful selection of eateries and bars nearby. Green marker.

**Car Parking:** Car parking is available at £4.50 for the day at postcode IP3 0AQ, less than five minutes walk from the venue. Map on web site. Many other car parks are available in town: see Parkopedia.

**Accommodation:** Many hotel chains are nearby, with a range of prices to suit all pockets.

**Tickets:** Entrance to the convention (displays and trade stands) will be free. Tickets for the lectures will be on sale in advance and at the door. The door price will be the same for both members and non-members. Save money by ordering tickets either by PayPal via our website or buy your tickets in person from the Treasurer at any club meeting. Buying in person will save you a further £1 against the PayPal price.

Full details of the event and booking details can be found on the front page of our web site at [www.oasi.org.uk](http://www.oasi.org.uk).

### Speakers

**Dr Allan Chapman, FRAS**, of Wadham College, Oxford, is an accomplished speaker, TV presenter and author. He is a founding member and president of the Society for the History of Astronomy and Honorary President of OASI.

**Nick James** has been a member of the BAA from the age of 12. He was papers secretary for many years and is currently Director of the Comet Section.

**Nik Szymanek** has been the premier UK astro-imager for over two decades. He often collaborates with professional astronomers and his work frequently appears in the pages of astronomy magazines.

**Dr John Mason** is former President of the BAA and currently Director of the Meteor Section and Public Relations Officer. He has led trips all over the world to observe solar eclipses and aurorae.

**Dr Nick Hewitt** is a trustee of the BAA, former Director of the Deep Sky Section and President. He is a keen eclipse chaser and observer of the deep sky, Mars and active galactic nuclei.

### Programme

|               |                                                                         |
|---------------|-------------------------------------------------------------------------|
| 09:00 – 18:00 | Displays area (foyer)                                                   |
| 09:30 – 10:45 | Nick James                                                              |
| 11:00 – 12:30 | Nik Szymanek                                                            |
| 13:00 – 14:15 | Dr John Mason MBE                                                       |
| 14:30 – 15:45 | Dr Nick Hewitt                                                          |
| 16:00 – 17:30 | Dr Allan Chapman:<br>'Sir John Herschel, Astronomer in two hemispheres' |

### Trade Stands

[The Widescreen Centre](#)

[Sneezums](#), Bury St Edmunds

### [Space Rocks UK](#)

#### Display Stands

[Athenaeum Astronomy Society](#)

[Breckland Astronomical Society](#)

[DASH Astro](#)

LYRA [Lowestoft and Yarmouth Regional Astronomers](#)

[British Astronomical Association](#)

[Commission for Dark Skies](#)

[Kesgrave High School Space Club](#)

[Geo Suffolk](#)

[Comet Watch](#), Neil Norman FRAS

## OASI Clothing

**Time to get kitted out for the OASI 50th Anniversary!**

**The Society now carries a stock of OASI clothing as below:**

**Order from Mike Norris**

**[michael.norris17@btopenworld.com](mailto:michael.norris17@btopenworld.com)**

**Tel: 01473 726596**

### Sweatshirt

by Maddins, easycare, crew neck, raglan sleeve. In Oxford Grey or Navy with Embroidered OASI Logo in Yellow. Sizes Small, Medium, Large & Ex Large.

**£18.00**



### Fleece Zip Jacket Front Pockets, Navy.

Small, Medium, Large & Ex.Large

**£23.00**



### Thinsulate Beanie

in 100% soft feel fabric Thinsulate lining Non-ribbed turn up in Dark Graphite with OASI embroidered in matching yellow.

**£9.00**

### Base Ball Cap: Navy/Stone

**£8.00**



### Russell Ultimate Pique Polo Shirt

In 100% combed cotton with flat knit collar and taped neck. Embroidered with OASI logo in Yellow. Sizes Small, Medium, Large & Ex.Large. Colours Black, White, Burgundy, Azure Blue & Sky Blue.

**£17.00**

**These prices do not include postage, which is always a bit unknown. I try to gather orders for a few pieces and then will collect to save this cost. If you want an item for a specified date then postage will be added.**

## OASI at The Mid-Suffolk Show, Stonham Barns



**All set up on Sunday ready for the visitors. Photo Martin R-H**

A huge thanks to all those who helped over the weekend.

In contrast to the Framlingham event, it was COLD. Very brief glimpses of the Sun first thing on Sunday 30 April but thereafter mostly cloud and a chilly east wind. There was quite a bit of interest from people who had bought a telescope, found one in the attic/garage/shed or were thinking of buying one.

The amusing highlight was probably your editor managing, without great effort, to lock his car keys in the boot of the car.

### **Sunday**

David Murton  
Roy Gooding  
Mike O'Mahoney  
John Wainwright  
Joe Walsh  
Alan Smith  
Mike Whybray  
Adam Honeybell  
Paul Whiting  
Martin R-H

### **Monday**

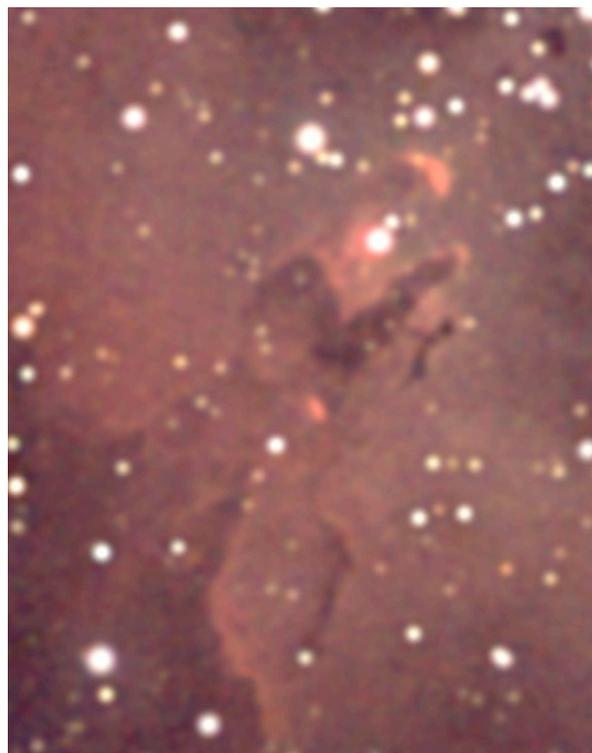
David Murton  
Roy Gooding  
Pete Richards  
Nicky Richards  
Andy Gibbs  
Paul Whiting  
Joe Startin  
Martin R-H

## Astrophotographs 2

**David Murton**

A couple from Friday night 28 April. First the Eagle Nebula (front cover picture) with the Pillars of Creation at its centre (right). This is my take on the most famous astro picture ever taken by the Hubble space telescope. It's very hard to get being very low in our southern sky and only visible for an hour before its gets light do includes the two frames from last week.

9x480 seconds at iso400



Then the Ring Nebula. Not so elusive but very small!

5x480 seconds at iso 400.

Both Canon 60Da camera on skywatcher 190MN telescope.



## Jupiter with Io shadow transit

**Andy Gibbs**

Three images of Jupiter from Saturday, 13-05-17 showing an Io shadow transit.



22:01 BST



22:19 BST



Image taken at 21.46,

Jupiter was shining at mag -2.35 42.6" diameter 33 degrees elevation  
693 million km from Earth.

### **Equipment used:**

QHY 5 L II camera, Meade 200mm LX200, 2.5 x Barlow lens.

Sharpcap 2.9, Registax 6 and Photoshop Elements 11.