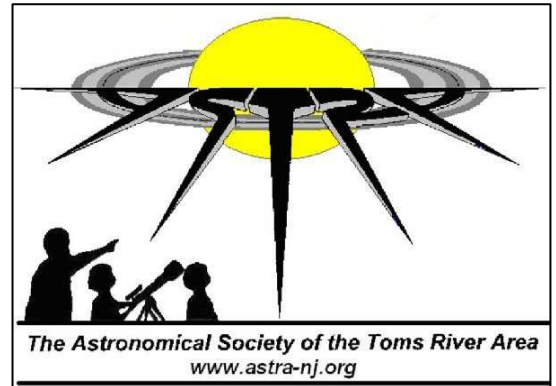


# ASTRAL PROJECTIONS

**Sep 2009**

[www.ASTRA-NJ.org](http://www.ASTRA-NJ.org)

\*\*\*\* PLEASE NOTE \*\*\*\*



This month the meeting will be held in the Technology Building (#13). They are normally held in the Solar Lounge beginning at 7:00 PM. The Solar Lounge is located in the Ocean County College Center building across from the Planetarium. The relocation of the meeting is due to the renovation of the planetarium building.

With a paid-up family membership for 2009, when you attend a monthly meeting, each family may enter their name into a free random drawing for a door prize to be given away during the meeting.

## **Our Next Meeting – Friday – 7 PM – Sep 11, 2009**

**Guest Speaker – Astronaut:** Astronaut Robert Cenker will recount the Space Shuttle Columbia STS 61-C mission. Meeting will be in the Technology Building (#13). The meeting will start at 7 PM. There will be no business meeting for this month.

ASTRA will be hosting a special guest speaker, retired NASA astronaut Robert Cenker, for our Friday, September 11<sup>th</sup> meeting. Mr. Cenker flew aboard the Space Shuttle *Columbia* for a six day mission in 1986, traveling over 2.1 million miles in 96 Earth orbits, and logging over 146 hours in space. During the six day mission, (January 12 to 18, 1986) he performed a variety of physiological tests, observed the deployment of the RCA Satcom Ku-1 satellite, and operated the primary experiment, an infrared imaging camera.

Mr. Cenker will be making a one hour presentation followed by a question and answer period. Please join us!



**ROBERT J. CENKER**  
AEROSPACE SYSTEMS CONSULTANT

## 2009 Meeting Schedule

See [www.ASTRA-NJ.org](http://www.ASTRA-NJ.org) for latest update  
(All meetings start at 7:00 PM unless otherwise noted)

**September 11<sup>th</sup>** – Space Shuttle Columbia STS 61-C mission Guest Speaker Astronaut Robert Cenker

**October 9<sup>th</sup>** – **Mirror Grinding** presented by Gene Russo

**November 13<sup>th</sup>** – **Presentation by Phil Zollner on the Eclipse**

**December 11<sup>th</sup>** – **Annual Awards Meeting and Star Party Roundup**

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## Star Party Plans

For members who enjoy observing the skies, checkout the following list. ASTRA hosts several *public* and *private* star parties, coordinated by Ro Spedalieri.

August 28<sup>th</sup>: The Lighthouse Center, ASTRA members only.

August 29<sup>th</sup>: Air Cadets, TBD.

September 12<sup>th</sup>: Berkeley Pride Day, open to the public.

September 19<sup>th</sup>: Cloverdale Farms, Barnegat, open to the public

September 25<sup>th</sup>: Cub Scouts Island Heights, ASTRA members only

October 10<sup>th</sup>: OCC Fall star watch, open to the public

October 24<sup>th</sup>: Wells Mills Park, open to the public

See the [ASTRA website](http://www.ASTRA.org) for the latest times, dates, and directions.

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## Club Notices

**Club Picnic:** A big thanks to Peggi and Rich Gamba for hosting the club picnic this year. The turn out was great and everyone had a great time – good food and good friends!

**Speakers wanted:** STAR is in the process of soliciting speakers for their upcoming season. If anyone is interested in doing a presentation at one of their meetings, send a note to [President@astra-nj.org](mailto:President@astra-nj.org) with your information.

**2009 Sep. Celestial Events:** supplied by J. Randolph Walton (Randy)

Day	Date	Time (EDT)	Event
Thu	3	12:44	Jupiter, no moons visible
		02:43	Two shadows on Jupiter visible
Fri	4	12:03	<b>Full Moon</b>
		19:13	Moon Rise
Sat	5	01:05	Mars Rises
		03:50	Venus Rises
		04:35	Jupiter Sets
		06:32	Sunrise
		19:25	Sunset
		19:36	Moon Rise
		19:55	Saturn Sets
		20:00	Mercury Sets
Tue	8	19:37	Io casts shadow on Europa
Fri	11	22:16	<b>Last Quarter Moon</b>
		23:13	Moon Rise
Sat	12	00:50	Mars Rises
		04:10	Venus Rises
		04:10	Jupiter Sets
		15:05	Moon Set
		19:13	Sunset
		19:25	Mercury Sets
		19:33	Saturn Sets
Tue	15	22:11	Io casts shadow on Europa
Thur	17	05:45	Zodiacal light in E before morning twilight for next two weeks
Fri	18	14:44	<b>New Moon</b>
		18:43	Moon Set
Sat	19	00:45	Mars Rises
		03:35	Jupiter Sets
		04:25	Venus Rises
		19:02	Sunset
		19:05	Saturn Sets
		19:10	Moon Set
Tue	22	17:18	Fall Equinox
Wed	23	12:40	Io casts shadow on Europa
Sat	26	00:35	Mars Rises
		00:50	<b>First Quarter Moon</b>
		03:05	Jupiter Sets
		04:40	Venus Rises
		06:00	Mercury Rises
		06:10	Saturn Rises
		14:53	Moon Rise
		18:50	Sunset
Sun	27	20:02	Jupiter, one moon visible
		23:37	Europa transits Ganymede
<b>Sat</b>	<b>Oct 3</b>	00:25	Mars Rises
		02:40	Jupiter Sets
		04:55	Venus Rises
		05:30	Mercury Rises
		05:50	Saturn Rises
		06:58	Sunrise

# Group Purchase of Royal Astronomical Society Items

The ASTRA astronomy club is taking orders to try to make a bulk purchase of the Royal Astronomical Society of Canada (RASC) Observer's book and calendar at a discount. The RASC has not set the prices yet, but we expect a price by the Sept. meeting and the discounted price to be about the same as last year. We will collect the discount price, which includes shipping and handling to ASTRA. If we do not meet the minimum order for discount, the money collected will be refunded.

The *Observer's Handbook* is a 320+ page guide published annually. The sections in the *Observer's Handbook* are of two kinds: **Sections dealing with astronomical events** that occur during the year, e.g. times of sunrise, sunset, moonrise, moonset, eclipses, meteor showers, star occultations by the Moon and by asteroids and a section called "The Sky Month By Month"; and **Sections dealing with astronomical data** and information that does not change from year to year

The *Observer's Calendar* has an astronomical photo for each month, times of sunrise, sunset, moonrise, moonset, phases of the moon, and the most important astronomical events that occur during the year.

Item	Reg. Price & Shipping	Expected Disc. Price & Shipping
Observer's Handbook 2009	Not Set Yet	\$22.00
Observer's Calendar 2009	Not Set Yet	\$17.00

Name:
Phone: (      )
Member of which astronomy club:

Qty.	Item	Price each	Total
		\$	\$
		\$	\$
<b>Total</b>			<b>\$</b>

Please use this form to list what you want, make a check out to ASTRA, and give it to Randy Walton at an astronomy club meeting, or mail it to ASTRA, Robert J. Novins Planetarium, Ocean County College, P.O. Box 2001, Toms River NJ 08754-2001 by Oct. 9. Items will need to be picked up from Randy Walton at a club meeting, hopefully in November.

# Astronomical League

[www.AstroLeague.org](http://www.AstroLeague.org)

As an ASTRA member you have a membership in the Astronomical League, which gets you the Reflector magazine, discounts on books, and Observing Awards.

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## Items for Sale

**Telescope for sale:** Meade 8" Schmidt-Cassegrain LX200 (f/6.3) with Autostar and hand controller, AC and 18V DC power supply. Accessories include: 9.7mm Super Plössl, 12.4mm Super Plössl, 26mm Super Plössl, Eyepiece holder, T-Adapter, Diagonal Prism, 8x50 mm Viewfinder, AC adapter, eyepiece filter set (x4), Handheld Keypad/Controller, Canon EOS camera adapter.

Purchased in 2000. Used exactly twice. All original packaging and documentation. \$1500.00

You pick up from Delran, NJ 08075.

If you are interested, send a note to [President@astra-nj.org](mailto:President@astra-nj.org) for the e-mail contact information. The person selling the equipment can answer any questions or accept an offer.

### **ASTRA-WEAR: For Embroidered and/or Printed items with the ASTRA Logo**

You can see some samples at ASTRA meetings and ordering information for all items on our website, <http://www.astra-nj.org/ASTRA-WEAR.pdf>.

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***Astronomic Group Purchase, Items for Sale, or Help Wanted Advertisements:*** If you want to handle a Group Purchase, have Sale items, or need Help contact the President [President@astra-nj.org](mailto:President@astra-nj.org) to announce it at a meeting and send the advertisement to the newsletter (See *Newsletter* below).

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***Newsletter:*** E-mail material to [Newsletter@astra-nj.org](mailto:Newsletter@astra-nj.org)

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***Executive Board:*** **President** – Rich Brady, [President@astra-nj.org](mailto:President@astra-nj.org); **Vice President-Secretary** – Ed Mullen, [VP@astra-nj.org](mailto:VP@astra-nj.org); **Treasurer** - Ro Spedalieri, [Treasurer@astra-nj.org](mailto:Treasurer@astra-nj.org); **Newsletter Editor** – Allen Malsbury, [Newsletter@astra-nj.org](mailto:Newsletter@astra-nj.org); **Webmaster** - John Endreson, [Webmaster@astra-nj.org](mailto:Webmaster@astra-nj.org).

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