

The IAS News & Views



Volume 78, Issue 11

www.iasindy.org

Please Be Aware!

We move to Butler in November for our General Meetings

IAS General Meeting November 19, 2011

7:00 PM

**Holcomb Observatory
Butler University**

“What’s Going On with the Sun?”

Dr. Catherine Pilachowski

“At first sight it would seem that the deep interior of the Sun and stars is less accessible to scientific investigation than any other region of the universe. Our telescopes may probe farther and farther into the depths of space; but how can we ever obtain certain knowledge of that which is being hidden behind substantial barriers? What appliance can pierce through the outer layers of a star and test the conditions within?” So said Sir Arthur Eddington in “The Internal Constitution of Stars” in 1926. But for the last 15 years, solar physicists have used helioseismology to pierce the outer layers of the Sun precisely to measure conditions within. Their observations have covered a full solar cycle now, and have given us new tools to understand – and predict – the solar cycle. The current cycle, cycle 24, is off to an unusual start, and cycle 25 may be even more unusual. Are we headed for another Maunder Minimum? Only time will tell...

Caty Pilachowski has held the Daniel Kirkwood Chair in Astronomy at Indiana University Bloomington since 2001. She is an IAS member and is active in encouraging public outreach effort in astronomy. In her research, she studies the chemical compositions of stars and the chemical evolution of star systems, concentrating mostly on star clusters. Before coming to IU, she served on the scientific staff of the Kitt Peak National Observatory in Arizona and as Project Scientist for the WIYN 3.5-m telescope, which she now uses for her research. Caty is currently serving as Associate Dean for Graduate Education in the IU College of Arts and Sciences.

IAS NEWS

Nominations Committee

The Board has appointed Jeff Patterson (KB9SRB@Comcast.net), John Molt (1stargazer@indy.rr.com), and Doug Brown (ddbrown4565@comcast.net) to act as the nominations committee for this year's elections. Please contact them if you are interested in running for office this year or if you know someone who would be a good candidate.

You still have time to be nominated for a Board and officer slot on the Ballot. Please think about how you can contribute to the Society.

The Pres

Other News

Pay your dues by PayPal

We can now pay dues on our website using paypal. There is a cart system where you can pay dues, order magazines, or donate to the Society. Thanks to John Shepherd and Doug Sanguetti for getting it done. It was not as easy as it seemed. The cart is found in the Join the Society section of the website. You will have to establish a PayPal account for yourself to make the transactions.

Logo Clothing

The Board has developed a new supply of logo ware with our new logo using Mid Central Trophy in Kokomo, IN. Typically T shirts, sweatshirts, polo shirts, and caps are available. Now we are even making it easier for you. We have changed our method of order so that you can have better service. Call Linda, tell her this is an order for the IAS logo ware, discuss what you want and give her the size. She can determine the cost and shipping and mail the order to your home directly.

Linda

Mid-Central Trophy

422 Arnold Ct

Kokomo, IN 46902

765-453-5494

All Major credit cards Hours 9-5 EST

Hog Roast

Saturday broke pretty cold and the forecast was not very good. Heading to the Link to meet Mike Kirsch, I thought we should probably think about eating inside. However, the sun came out and it was warmer outside and than in the observatory. So outside we went. Mike set up the cooker in the back yard and started the fire and preparation for a great day was on. Ham, Ribs, Chicken, Sausages and Wieners were the meats of the day. Everyone else brought veggies, hot dishes and desserts. Man O Man! A diabetic's nightmare!

Later, when it got dark, people broke out their scopes and we observed til about 1-2 o'clock. Nice day.



The master chefs



We had about 50 people at the event. Next year our plan is to have the hog roast earlier in the fall so that we won't be so cold. Maybe that will help attendance.

A big thanks to Mike and his wife and to everyone who helped out with the event. It went very smoothly and could not have happened without everyone's help.

IAS Membership Status

The following changes in membership took place in October :

Total Membership: 147

New Members:

Ken Koons Indianapolis, IN

Mark Marshall Carmel, IN

Renewals: 15

IAS Calendar of Events for November

General Meeting November 19

Board Meeting November 22

Observing Activities

Star Party Reports

Twin Lakes Star Party - From Danny Mitchell

We arrived on Saturday afternoon and were the only ones on the field.

The star party started off very slow and late in the week it finally pick up and looked like a star party. We were treated with 3 inches of rain on Sunday night and tornado warnings just a few miles south, lucky for us no wind or lightning. Observing was minimal for the star party on a whole Monday night after midnight we were treated to good skies till sunrise, the rest of the week it was sucker holes for the most part and early to bed, Friday night was another good night after midnight but we missed it.

Of course, most everyone packed up Saturday, I left my refractor up and we enjoyed visual thru it till around 1 am and packed in for the trip home Sunday.

The people that put the TLSP on did a great job in spite of the weather , lots of things to do and see, including a trip to Golden Pond Observatory for a show at the planetarium and a look at the clubs observatory upgrade project that is a work in progress.

One of the new WKAA club members happens to be a military pilot and treated us with a Black Hawk Helicopter fly over on Thursday. IAS people there were Deb and myself, Mike and Sandy, Thad , Tom Borlik and his friend Pete Klein and I am sure I missed someone else .
Dan

Activities for November:

Link Observatory

McCloud Activities–

Prairie Grass Observatory Activities–

We are able to go to the Link, Prairie Grass Observatories, and McCloud Nature Park at non scheduled times if they do not conflict with reserved activities:

For those interested in going to The Link Observatories for observing call John Shepherd at 1 317-862-3442.

For those interested in going to McCloud to observe, please call the park office 765 676 5437 before 4PM on the day you want to go out. They will give you permission to be there at night and make arrangements to cut off the lights.

For those interested in going to Prairie Grass Observatory for observing call Hoppe at 1-765-296-2753.

Other Observing Activities

Star Gazer

October 28, 2011

Stargazer #567

November 2011



This chart shows the night sky as appears **on the 1st at 9 p.m., on the 15th at 8 p.m., and on the 30th at 7 p.m. from latitude 30° N.** Hold the chart so the direction you are facing is at the bottom. For example, if you are facing north, turn the chart around so "Northern Horizon" is at

the bottom as you hold it out in front of you. The stars on the lower part of the chart are those you will be facing in the sky. The stars at the chart's center represents the part of the sky straight overhead. [*Sky chart generated using Cartes du Ciel freeware.*] / To keep your eyes adjusted to the darkness as you look at the night sky, use a red-light flashlight to view the chart. You can make your own by putting red cellophane over the light or by coloring the lens of the flashlight with a red marker pen.

- **Sun**
Nov. 1 – Sunrise: 7:44 a.m.; Sunset: 6:39 p.m. (Daylight Time) / Nov. 15 – Sunrise: 6:56 a.m.; Sunset: 5:29 p.m. (Standard Time) / Nov. 30 – Sunrise: 7:09 a.m.; Sunset: 5:25 p.m. (Times exact for Waco, TX)
- **Moon**
Nov. 2: 1st Quarter / Nov. 10: Full / Nov. 18: 3rd Quarter / Nov. 25: New
- **Night Sky Events** [*Held at arm's length, the width of your fist is 10° and the width of your index finger is 1°. The width of a full Moon is ½°.*]

Nov. 2 Wed. evening: The Moon is at 1st quarter.

6 Sun., 2 a.m.: Set clocks back one hour to Standard Time.

9 Wed. evening: Venus, Mercury, Antares are setting in west southwest 30 minutes after sunset as Jupiter and the nearly full Moon are rising in the east.

11 Fri. morning: Mars is just to the left of the star Regulus high in the southeast and Saturn is to the upper left of the star Spica low in the east southeast.

10 Thu.: The full Moon is called the Frosty Moon, the Beaver Moon, and the Snow Moon.

14 Mon. evening: Mercury is at greatest eastern elongation 23° from the setting Sun.

17 Thu. morning: The Leonid meteor shower peaks but the Moon, which rises after midnight, will interfere with the best meteor-viewing hours of morning.

18 Fri. morning: The Moon is at 3rd quarter.

18 & 19 Fri. & Sat. morning: The Moon passes by Mars and Regulus.

22 Tue. morning: The crescent Moon is just to the right of Spica (nearest) and Saturn low in the east.

25 Fri.: The new Moon produces a partial solar eclipse that won't be visible in our part of the world.

26 Sat. early evening: Brilliant Venus and a thin crescent Moon are low in the west southwest with Mercury to their lower right.

- **Naked-eye Planets** [*The Sun, Moon and planets rise in the east and set in the west due to Earth's west-to-east rotation on its axis.*]

Evenings: Venus and Mercury (setting in west southwest), Jupiter (east)

Mornings: Saturn (very low in east); Mars (east), Jupiter (low in west)

* *Mercury* is near the west southwestern horizon at dusk, just below Venus, most of the month -- binoculars will help.

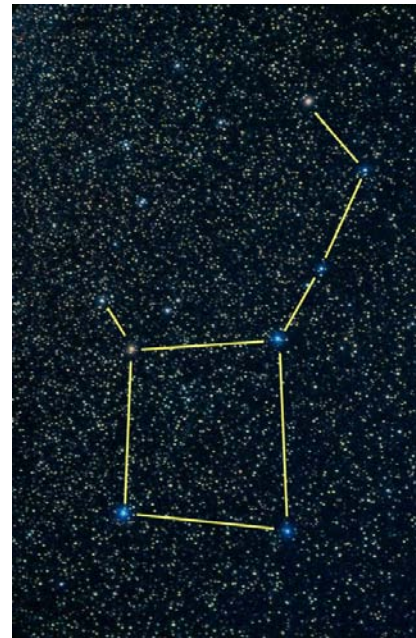
* *Venus* is climbing higher daily, becoming the prominent "evening star" in the west.

* *Mars* is up in the east well before sunrise.

* *Jupiter* is well up in the east in the early evening and high in the west by morning.

* *Saturn* is beginning to emerge from the glare of the rising Sun low in the east at dawn.

- **Time Change Sun. Nov. 6, 2 a.m.:** Before retiring Saturday night, set your clocks back (“fall back”) one hour to Standard Time.
- **Constellation of the Month**
- The constellation Pegasus the Winged (Flying) Horse is now high in the east in the evening sky. While it's difficult to visualize a horse, with or without wings, the well-known Square of Pegasus is distinctive and easily recognized. Four reasonably bright stars form an almost perfect square large enough that your fist, held at arm's length, will easily fit inside. (Your fist spans some 10 degrees while the square's sides extend nearly 15 degrees.)
- Jupiter, the brightest object in the east, is now well placed to assist in identifying the great square. Around 8 p.m., Jupiter is 30 degrees (three fist-widths) above the eastern horizon, and Pegasus is another three fists above Jupiter.
- Although called the Square of Pegasus, only three of the stars are in Pegasus. The square's brightest star, Alpheratz (lower left), is the brightest star in the constellation Andromeda the Princess. The stars extending upward from the square (see diagram) represent Pegasus' neck and head. Other than the great square, Pegasus has little to offer without the assistance of binoculars or a telescope.
- **Pegasus in Greek Mythology**



- With its ability to fly, Pegasus the Winged Horse had a prominent role in the rescue of Princess Andromeda by Perseus the Hero. Chained to a remote island, the beautiful princess was to be devoured by Cetus the Sea Monster as punishment for her mother's vanity. To save her, Perseus needed quick transportation, faster than any boat could take him, as well as a means for subduing the sea monster.
- To his good fortune, Athena, goddess of virginity, provided both. A beautiful woman named Medusa had been seduced by Poseidon, god of the seas, in Athena's temple. For desecrating her temple, Athena turned Medusa into a Gorgon, a dreadful creature with venomous snakes in place of her hair, and banished her to a cave. She was so hideous that all who gazed upon her were petrified with fear and turned to stone. Athena told Perseus to find Medusa, cut off her head, and show it to the sea monster who would turn to stone and sink into the sea.
- That solved the monster problem, but what about transportation? Well, Athena thought of everything. When Perseus severed Medusa's head, she being pregnant from her affair with Poseidon, out of her blood arose the fully grown winged horse. Perseus then rode Pegasus over the sea where, using Medusa's head, he dealt with the sea monster, and proceeded to the island where he rescued Andromeda, his wife-to-be.
- Pegasus, although a horse, was the offspring of Medusa, a mortal woman, and Poseidon, a god, thus he was partly mortal and partly divine. Following his service to Perseus, he was captured by another mythical hero, the mortal Bellerophon, and went on to other adventures, including the slaying of the people-eating Chimera, a creature with the head of a lion, the body of a goat, and the tail of a snake. (My those Greeks had morbid imaginations!)
- As seems so often with the powerful, Bellerophon's successes went to his head, and he foolishly decided to have Pegasus fly him to Mount Olympus, home of the gods. But since he wasn't a god, Zeus, the king of the gods, wouldn't allow it. He had Pegasus throw Bellerophon off whereupon he fell back to Earth. Pegasus, being partly divine, was permitted to enter the godly mountain where he spent his remaining days carrying Zeus' lightning bolts across the sky. For his faithful service, Zeus eventually placed Pegasus in the night sky where we see him to this day (night).
- **Image: Bellerophon riding Pegasus the Winged Horse. Illustration by Mary Hamilton Frye in Hamilton Wright Mabie's Myths That Every Child Should Know (1914)**
- **Astro Milestones.** Nov. 9 is the birthday of **Carl Sagan** (1934-1996), American astronomer, author, and co-founder of The Planetary Society. Nov. 20 is the birthday of



Edwin Hubble (1889-1953), American astronomer for whom the Hubble Space Telescope is named.

October 14, 2011
Stargazer #566

Mystery Sighting

Sonya Moyer of Boyertown, PA, recently emailed me asking about a mysterious night sky sight she couldn't identify.

She wrote: "This morning around 5 a.m., I saw an amazing sight. I was sitting on my back porch facing southeast looking at the stars. A little above Orion a star just "swelled up" and seemed to burst! There were a few faint "sparks" that traveled up and to the right, then nothing – nothing where the star had been a moment before. I am sure of what I saw. Can you comment on this? Or you can just call me crazy, and I won't be offended. Sincerely, Sonya Moyer."

My response: "No, I don't think you're crazy. I'm guessing you happened to see a meteor coming directly in your direction before it broke apart and burned up. Meteors "falling" and burning up in our atmosphere are a common occurrence, and meteors breaking up before burning up, although less common, aren't rare. But, given that I've heard of so few reports, I'd say your experience is rare. In fact, I'm aware of only one other person who has shared your experience – ME – although I'm sure others must have as well.

"I had the same experience once while stargazing alone at a state park in far west Texas, only mine didn't explode – it just increased in brightness rather dramatically, and then rather quickly faded away. I was baffled until a fellow stargazer later proffered an explanation, and I realized that must have been what I had seen. In both our cases, the meteor might have been "natural" (a piece of stony or metallic meteoroid material) or human-made (a piece of satellite or rocket debris reentering and burning up in Earth's atmosphere).

"Given that one must be viewing in the right direction at the right moment from the right location on Earth to see what we saw, I'd say we were pretty lucky – and you were even luckier as your meteor broke up before disintegrating. Of course, we might be lucky in yet another way – had the meteor not completely burned up, and it was heading directly toward us... Thanks for sharing your experience."

Most people have seen meteors, also called "shooting stars" and "falling stars," and stargazers who spend hours under the stars see countless meteors from the ordinary to those that make you gasp. And while seeing a meteor break up is far less common, it's not rare – I recall seeing three or four.

But seeing a meteor coming straight toward you – I would consider that pretty rare. And having a directly incoming meteor break up – extremely rare. I would like to hear from anyone who has seen either, or both simultaneously.

While meteors can usually be seen any clear night of the year and any time of night, seeing them still takes a bit of luck. One has to be looking in the right place at the right time, and they are usually so fleeting there's no time to point them out to a companion.

There are, however, ways of increasing the odds of seeing meteors. More will be seen under dark skies, away from urban light pollution, and when the Moon isn't up to wash out all but the brightest. And comfort is important. You'll probably want to stretch out on a blanket or reclining lawn chair as standing or sitting in an ordinary lawn chair can be tiring and will quickly make your back and neck ache. When that happens, you'll not want to watch long, reducing your chances of seeing meteors. When looking, slowly pan the skies in the direction with the least light pollution which is usually directly overhead. And while it's not convenient for us night owls, more meteors are visible in the morning than evening with the best hours being from midnight to dawn.

Finally, more meteors are apt to be seen during annual meteor showers, two of which occur this month. As Earth speeds around the Sun at 67,000 mph, it regularly passes through the debris-strewn paths of several comets. When some of the debris enters Earth's atmosphere, friction causes it to burn and momentarily glow brilliantly as meteors in our night sky.



Image: All-sky fish-eye 4-hour exposure of the Leonid meteor shower November 17, 1998. Most of the 156 meteors captured in this image seem to radiate from the constellation Leo the Lion, hence the name.

Credit: Juraj Toth at Modra Observatory in Slovakia, posted on Wikimedia Commons.

The following are the major annual meteor showers and when they usually peak. Dates are approximate since cometary debris drifts somewhat in space, making it difficult to predict the exact timing of Earth's passage through the maximum debris stream. Thus, it's best to be alert for increased meteor activity for several days around each stated date. Quadrantid – Jan. 4 / Lyrids – Apr. 22 / Eta Aquarids – May 6 / Delta Aquarids – Jul. 30 / Perseids – Aug. 13 / Draconids – Oct.

8 / Orionids – Oct. 21 / Taurids – Nov. 12 / Leonids – Nov. 17 / Geminids – Dec. 14 / Ursids – Dec. 14

So in summary, one is more likely to see meteors away from urban lights under dark, moonless skies, after midnight, and during meteor showers. And who knows, like Sonya, you just might see one breaking up while coming directly toward you.

IU Kirkwood Observatory Bloomington

The Kirkwood Observatory Solar Telescope is open on the "First Saturday" of each month from 1-3 PM. Viewers may even be able to see a solar prominence or two weather permitting. Updated weather conditions and closings will be posted at the Kirkwood Observatory Hotline at (812) 855-7736, and at the Observatory webpage, <http://www.astro.indiana.edu/kirkwood.shtml>.

Monthly openings of the solar telescope are planned for the first Saturday of each month during our 2011 and 2012 observing seasons. And if you want to follow the Sun in between our monthly Solar Telescope openings, the website www.spaceweather.com provides daily updates.

Kirkwood Observatory on the IU campus is open each Wednesday evening from spring break until mid-November, weather permitting! Join us for a night of observing the night sky with the Kirkwood 12" refractor. Please visit our schedule at <http://www.astro.indiana.edu/kirkwood.shtml>, for a list of dates and times. For updated weather conditions and closings, please call the Kirkwood Observatory Hotline at (812) 855-7736.

IAS LIBRARY:

There is now a link on our website page for our new Multi-Media Library containing a multitude of videos that are on the web. We think it will be a great addition to our library for both novices and experienced observers.

Do you have a question or need?

We have established a list of members who would be willing to receive calls for help on specific objects. If you have a specific skill and would be willing to help others please contact Jeff Patterson KB9SRB@hotmail.com.

Based upon the responses we received to your intro question recently, perhaps we should add a section to the bulletin naming those members who would be willing to receive calls for help on specific subjects.

William Conner (wmtconner@att.net) - for CCD imaging and film photography.

Jeff Patterson (Contact Jeff via the webpage iasindy.org under the contact us section) – Observatory design and construction

Eric Allen (ericandroberta@sbcglobal.net) - Telescope making and mirror grinding

Brian Murphy (bmurphy@monumentcompanies.com) - "telescope construction and collimation".

Public Outreach Programs – If you want to schedule a program at the Link Observatory or at you site, please contact the following people:

Gerald Venne is our Public Events Coordinator. He will be responsible for coordinating Public Events for the IAS. To schedule a public event contact Gerald Venne (Contact Gerald via the webpage iasindy.org under the contact us section).

He needs your help. Let Gerald know if you would like to show the public our sky. We need people to help at Link and elsewhere. It is actually a lot of fun.

If you would like to schedule the Goethe Link Observatory, please contact John Shepherd. Contact John via the webpage iasindy.org under the contact us section)

Astro Ads

Are you changing or upgrading your equipment? Do you have or are you looking for astronomical materials and equipment? The Indiana Astronomical Society as a service to its members, will publish non-commercial ads at no charge. The ad will stay in the Bulletin for 4 months and may be renewed at the owner's request.

To place an ad, contact:

Bulletin Editor

Jeff Patterson

1780 S. Morgantown Rd.

Greenwood, IN 46143

(317) 300-0449

E-Mail: KB9SRB@Hotmail.com

For Sale:

Starmaster 14.5 F4.3 Hybrid Truss "Go to" **Dobsonian** Telescope

Registered Zambuto mirror – never washed

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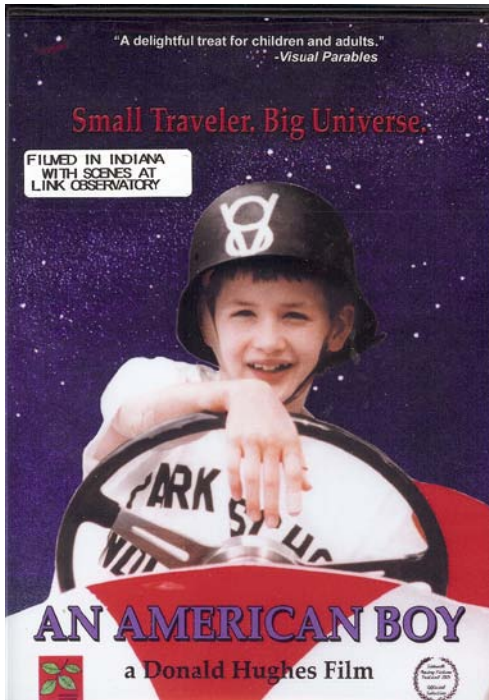
Phone: 317-518-0601

For Sale

DVD OF “AN AMERICAN BOY” AVAILABLE FOR SALE AT GOETHE LINK OBSERVATORY

For the those of you new to the Society or perhaps were unaware of this story, “*An American Boy*”, produced by Wildwood Pictures & directed by Donald Hughes, retells the story of his childhood days and looks at Indianapolis in the late 1940’s and includes a recreated visit to the Goethe Link Observatory, where Donald (a schoolmate of Goethe Link, Jr.) “**Meets the Universe!**” This happened in 1947 – the year before the observatory was given to Indiana University.

These DVDs are available for \$10 each and were donated to the IAS by Mr. Hughes. All the proceeds from their sale will be used to fund the “36-inch Telescope Rebuilding Project”. See any IAS Officer to purchase one.



For Sale: MEADE 8” F/4.5 NEWTONIAN

Includes German Equatorial Mount with three counterweights, felt-lined mounting rings, RA and Dec slow motion controls, accessory tray and 6x30 finder scope. Eyepieces include 25mm MA and 9mm Ortho. All instruction manuals are included.

Additional Accessories:

- * Quartz RA motor drive incl battery pack
- * Polar alignment viewfinder
- * 12.5mm illuminated reticle eyepiece
- * Meade 60mm guidescope with mounting rings and 1.25” diagonal
- * 1.25” camera adapter

* Piggyback camera bracket

Aluminized mirror has been cleaned and collimated. Optics are excellent, like new.

Telescope is in very good condition. A complete package for wide-field astrophotography and deep sky observation.

Asking \$450.00 – Call Bill at 892-2036 or e-mail at bwilhite@tds.net.

For Sale or Trade: CELESTRON HEAVY-DUTY TRIPOD, WEDGE, DRIVE, FORK ARMS
Heavy-duty tripod and wedge for the classic C8. Tripod has 2" legs that are extendable with step-locks and has a center post with an integral leg spreader. Wedge is cast iron with a hand-screw latitude adjustment. These components were built to last a lifetime and then some. I'm also including the drive base, fork arms, and power cord. This is the old-style base with the RA spur drive (no worm). The drive has slow-motion controls and setting circles and yes, it still works.

The C8 optical tube assembly is NOT included. \$300 takes all. I will also consider taking a good wide-field eyepiece in exchange (20mm f.l. minimum). Contact bruce.bowman@tds.net or call 317-539-2753

Equipment Loan Program

The Loan Program has been helpful to those new to the hobby and others in need of observing equipment. We consider offers of equipment you may not have need for any longer.

Did you know you could borrow a scope or piece of astronomy equipment from the Society and take it for a test drive? The Society has a program where members who are trying to determine what kind of equipment to buy can borrow one of the Society's scopes for a month or two and see how they like it. Philip Dimpelfeld is the chairman of the program and can arrange for your pickup and training on the use of the particular instrument. This is a great way to see what telescope you want to purchase. We have several scopes, eyepieces and binoculars to loan. Philip Dimpelfeld **Contact via the webpage iasindy.org under the contact us section**

Board Meeting –November 22, 2011

The IAS Board Meeting is being held at 75 Executive Dr. Carmel, IN. please contact Jeff Patterson via the webpage iasindy.org under the contact us section

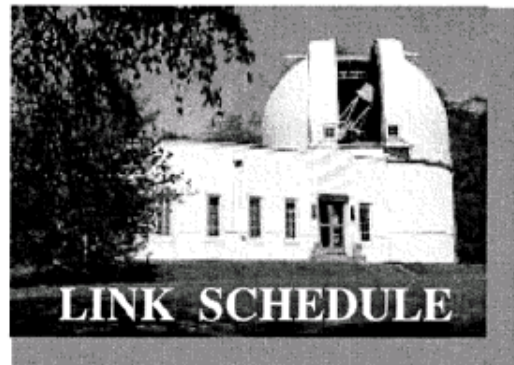
2011 Calendar of Meetings

	NAG	General	Board
January		22-Jan	25-Jan
February		19-Feb	22-Feb
March		26-Mar	29-Mar
April	9-Apr	23-Apr	26-Apr
May	7-May	21-May	24-May
June	11-Jun	25-Jun	28-Jun
July	9-Jul	23-Jul	26-Jul
August	6-Aug	20-Aug	23-Aug
September	10-Sep	17-Sep	20-Sep
October	1 Oct	22-Oct	25-Oct
November		19-Nov	22-Nov
December		17-Dec	

Goethe Link Observatory Observatory Address

**Goethe Link Observatory
8403 N. Observatory Lane
Martinsville, IN 46151**

Latitude: 39 degrees, 33 minutes north
Longitude: 86 degrees, 24 minutes west
Phone: (317) 831-0668



This schedule is being published to assure proper access to the Link Observatory for programs that are designed as observational, general education, astronomy conferences, or amateur research projects. Training programs are tentatively scheduled for Saturday evenings only. Although other requests can over-ride these sessions. It is the purpose of this listing to prevent activity conflicts.

If you need to acquire use of the 36-inch telescope: remember two important IAS guidelines: 1) *There has to be two or more IAS members present.....*2) *contact the Observatory Manager: John Shepherd* **Contact via the webpage iasindy.org under the contact us section.** **DON'T WAIT UNTIL THE LAST MINUTE TO MAKE YOUR REQUEST OR YOU MAY NOT GET ACCESS.**

IAS News & Views Stats

Accessing the IAS News & Views

The current bulletin can be found on the website www.iasindy.org

IAS News & Views

The monthly newsletter welcomes articles of local astronomical interest information and want ads:

Please submit to
 The Indiana Astronomical Society, Inc
 Jeff Patterson, editor
 1780 S. Morgantown Rd
 Greenwood, IN 46143
 Phone: (317) 300-0449
KB9SRB@hotmail.com

Membership information Contact via the webpage iasindy.org under the contact us section
 Contact any IAS officer or the Treasurer John Shepherd or Vicki Switzer

Observatory Manager
 John Shepherd **Contact via the webpage iasindy.org under the contact us section**

Public Event Coordinator
 Gerald Venne **Contact via the webpage iasindy.org under the contact us section**

Equipment Loan Program Coordinator
 Philip Dimpelfeld **Contact Phil at philip.dimpelfeld@comcast.net**

Membership Coordinator
 Vicki Switzer **Contact Vicki via the webpage iasindy.org under the contact us section**

November Calendar, 2011

For a more detailed Calendar of Events see the webpage www.iasindy.org

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
		1	2 1 st QTR ☾	3	4	5
6	7	8	9	10 Full Moon ○	11	12
13	14	15	16	17	18 3 rd QTR ☾	19 General Meeting at Holcomb
20	22	23 Board Meeting	24	25 New Moon ●	26	27
28	29	30				