

# The IAS News & Views

Volume 78, Issue 10



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

## **October IAS Hog Roast**

**October 22, 2011**

**5:00 PM**

**Goethe Link Observatory**

**Please Note the Hog Roast is at 5:00 PM**

**There is no general meeting. But observing is available in the evening weather permitting.**

Come one come all to our annual hog roast. There will be beef, pork, chicken, and hot dogs for the kids. It is free to all members and their families and their invited guests. We will eat indoors in the event of bad weather. Come eat and socialize.

**The Society will furnish meat, drinks (coffee, soft drinks and bottled water), buns, chips, eating utensils, plates, napkins, condiments etc.**

**Members whose last names begin with A through M are asked to bring a covered dish OR salad. In the past we have been short on covered dishes and salads.**

**Members whose last names begin with N through Z are asked bring a dessert?**

## ***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.

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## Elections are Coming

It is time to begin thinking about elections again in earnest. Our elections will be held in December. There will be two Board members up for election as well as the four officers and, in addition, there are two Board member positions that are open due to resignations this year that will need to be filled by appointment by the current Board. I urge you to consider running for office. In addition the coordinator's positions will be open for appointment. If you would like to be a part of the governing body of the Society and help steer the direction of the Society please see one of the members of the Nominations committee. If you would like to act as one of the appointed coordinators please let us know as well. This looks like it may be another exciting year in our history.

Nominations committee

John Molt

Jeff Patterson

Doug Brown

### Duties of the Officers:

(1) Except as provided by these bylaws or required by law, the entire control of the Society and its affairs shall be vested in the Board of Directors.

(2) The Board of Directors shall consist of seven (7) members elected from and by the membership at large. In addition, each Executive Officer shall be a voting member of the Board during their terms of office. In the event of a tie vote upon any matter, the President of the Society shall cast a second vote to break the tie.

(3) The age requirement for members of the Board of Directors and Executive Officers shall be 18 years or older.

(4) A member of the Board of Directors or an Executive Officer may be re-elected after their term of office expires.

(5) If a vacancy occurs in any office for any reason, including failure to attend meetings, the Board of Directors shall elect a member of the Society to fill the unexpired term of the vacant office. Failure by a Director to attend six (6) meetings of the Board of Directors during any twelve (12) month period may constitute a vacancy at the discretion of the Board.

(6) At each December meeting, here designated as the "Annual Meeting," the Directors shall be elected by the membership to succeed those whose terms expire.

(7) The Executive Officers of the Society shall be President, Vice President, Secretary, and Treasurer, all of whom shall be elected by written ballot or voice vote at the Annual Meeting. The term of office for the executive officers will be for one year starting January 1st of the next year.

(8) No person shall hold more than one Executive Office at a time.

(9) Members of the Board of Directors shall hold office for three years. Their terms shall be staggered so that two directors are elected at each annual meeting, with the exception of a year in which a third director is to be elected.

(10) The President shall preside at all meetings of the members and ensure that the purposes of the meeting are accomplished. The President shall annually nominate the Editor of the monthly newsletter (*The Bulletin*), the Web Supervisor of the official website, the Associate Web Supervisor, the Observatory Manager, the Equipment Loan Program Coordinator, the Public Events Coordinator, the Librarian, the Membership Coordinator, and the Astronomical League Correspondent. The nominations will be ratified by the Board of Directors. The President will be responsible for communication with Indiana University. The President is responsible for filing all corporation and tax returns as required by the State of Indiana.

(11) The Vice President shall preside in the absence of the President and shall act as Program Coordinator. The Vice president's principal responsibility is to obtain speakers or to develop a specific program for each of the general meetings.

(12) The Board of Directors shall compile and approve an annual inventory report showing the whole amount of real and personal property owned by the Society. The report shall be presented to the President at the January Board meeting. The Secretary shall file the report with the Society's records.

(13) The Secretary shall keep minutes of all Business/Board meetings, initiate such Society correspondence as shall be directed to the Secretary, and ensure that records of the Society's business are maintained in permanent form.

(14) The Treasurer shall be responsible for all monies belonging to the Society. The Treasurer shall keep accurate records of all transactions and hold Society funds ready for disbursement at the order of the Board of Directors. The Treasurer shall also maintain insurance documents and prepare and submit all required state and federal tax returns.

(15) The Board of Directors and Executive Officers shall establish official Standard Operating Procedures (SOPS) for operation of the Link Observatory, to clarify the requirements of these bylaws, detail agreements between the Society and other parties and to comply with any city, state, or federal rules or regulations. These procedures may be altered by the Board of Directors without a general members' vote. Such operating procedures shall be filed with the Society's records and shall be posted where deemed appropriate.

(16) The Observatory Manager shall be responsible for routine management of the Link Observatory. The Observatory Manager shall maintain an inventory of the IAS property at the observatory and schedule the use of the Link Observatory facilities. It is the Observatory Manager's responsibility to notify the President of any situation at the Link Observatory that requires the attention of Indiana University. The Observatory Manager is responsible for the security of the keys he holds for the Society, accounting for all keys issued to the Society, reporting of the status of the keys to the Board and issuance of keys in accordance with the directions of the Board.

(17) The Editor of *The Bulletin* shall be responsible for publishing the monthly newsletter. The electronic copy is to be transferred to the Web Supervisor for placement on the website. The

Editor of *The Bulletin* shall be responsible for printing and mailing copies of *The Bulletin* to members who have designated that they prefer “hard copies” and to Friends of the Society. It is the Editor’s responsibility to maintain a high level of excellence in *The Bulletin*.

(18) The Web Supervisor shall be responsible for the operation and maintenance of the IAS website at the highest level of excellence. The Associate Web Supervisor shall assist the Web-Supervisor in their duties and know the system well enough to act as Web-Supervisor if needed.

(19) The Librarian shall be responsible for the Society’s library including the maintenance of an inventory of all media, and check in/out records for the Society. The Librarian shall be responsible for recommendations to the Board for additional media.

(20) The Equipment Loan Program Coordinator shall be responsible for maintaining the loaner equipment and overseeing loan activities.

(21) The Public Events Coordinator is responsible for evaluating, scheduling and coordinating events requested by public and private institutions and individuals.

(22) The Astronomical League Correspondent (ALCor) shall serve as the Society’s contact person for Astronomical League matters. The ALCor will coordinate with the Membership Coordinator to ensure that membership rosters are sent to the League in accordance with Astronomical League procedures. The ALCor is also responsible for communicating League benefits and programs to the Society’s members.

As a collateral duty, the ALCor shall serve as the Society’s Awards Coordinator (AC) for the League. The Awards Coordinator will carry out these duties in accordance with directives from the Astronomical League National Observation Program Coordinator.

(23) The Membership Coordinator shall collect dues from the members, keep accurate records of all transactions and transfer these funds to the Treasurer. The Membership Coordinator shall update and maintain Membership, Inactive membership and IAS Astronomical League databases. Each month the Membership Coordinator will send Notices of Pending Membership Expiration and Notices of Membership Expiration. In addition, the Membership Coordinator will send letters of welcome and introduction to all new members upon receipt of the application and dues.

### **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 Sangunetti for getting it done. It was not as easy as it seemed. The cart is found in the Join the Society section. You will have to establish a PayPal account for yourself to make the transactions.

### **Volunteer Opportunity**

We have been contacted by a new tech school at Arsenal Tech asking for volunteers. If you have the time and are interested please contact the teacher or me for more information.

Mr. Patterson and Mr. Venne –

I am a physics, astronomy, and math teacher at New Tech High@ Arsenal Technical High School in Indianapolis. New Tech High is a Project-Based Learning small school that tries to partner with local businesses and organizations to make learning more authentic for our students. I was hoping some of your members would be interested in representing your organization as a project partner with my astronomy/pre-calculus integrated class sometime this school year.

It doesn't take much time commitment to be a project partner; a lot of our partners only come help introduce the project, and then see or help evaluate the results. Some partners choose to get more involved, and send people to our school a few times over the course of a project (normally 3-4 weeks) and help guide student groups in their work, or help teach certain topics. Whatever level of involvement your members would be interested in, it would have a big impact on the students. Their favorite projects are always ones in which they actually get to meet community members.

If there is anyone in your organization that might be interested, please pass along my e-mail, and encourage them to contact me anytime.

Thank you very much,

Andrew Ringham  
Science and Math Facilitator  
New Tech High @ Arsenal Tech  
(c) 317.409.7562 (w) 317.693.5334  
ringhama@ips.k12.in.us

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**Sad Note: Member Jim Parr passes away.**

In September, we lost one of our members to cancer. Jim was an electrician and had volunteered many times to do electrical work at the Link during the renovation project. He had aspirations of taking astronomy classes and buying a telescope. He left a daughter in Martinsville where he lived.

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**Long time member Tom Borlik decides to leave the Society.**

We were saddened to hear that Tom has decided to hang up his hammer and saw and take leave of the Society for personal reasons. He has resigned from the Board and did not pay his dues when they came due. Tom for many years showed his love for the Link Observatory and the Link family with his tireless effort to maintain and improve the facilities. His dedication will be missed. If you see Tom, let him know we miss him.

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**Logo Clothing**

The Board has developed a new supply of logoware with our new logo. New Logo clothing with our new Logo. However, there is some inventory of sweatshirts and t shirts with the old logo on it. So we are going to have a fire sale. All old clothing will be sold after the speaker at the general meeting for half price. Anything left over will be donated to a local charity. This is new clothing with the old logo that has never been sold. Sizes are limited.

We have clothing with the new logo as well. The plan is to take orders and then order clothing. You can pay for it on receipt.

### **Clyde Fishburn's Mirror is Complete**

#### IAS 20" Mirror

The Club's 20-inch mirror is finished. For those not familiar with the mirror, It was donated by the family of the late Clyde Fishburn, long-time member of IAS and mirror maker.

Clyde didn't live long enough to finish the mirror. What he did do was acquire the blank, core it, and grind, polish and partially figure it on the Draper machine currently residing in Link observatory.

When I joined the Club, the mirror and machine were in the possession of former member Dave Stevens (another mirror maker). When Dave moved away, the mirror came to me. I've been working on it off and on for the last couple of years.

The mirror was astigmatic and had a turned edge, both of which I fixed before I proceeded. Recently, when I felt the mirror was near completion, I removed the central core, which had been cemented back into the blank to simplify grinding, polishing, etc. Removing it took some doing, and the mirror (and core) suffered some minor damage in the process.

The usual procedure is to test the mirror on one diameter until it has a satisfactory figure, then test it again at right angles to the first test, then average the values. The mirror tested at something like 1/28 wave PVW. The other diameter, which should have been similar, wasn't. Two problems emerged. One was stresses released by removal of the core. The other was residual astigmatism that I apparently hadn't quite gotten rid of. Both problems are minor, but complicate testing of the mirror. I did further work on the mirror so that the average of the two diameters showed a surprising 1/68 wave. Unfortunately, the individual diameters were not nearly so good. I decided to test two other diameters, and wound up with four different versions of the figure. They read 1/4 wave, 1/5 wave, 1/10 wave, and 1/13 wave. The industry standard (which commercial mirrors often don't reach) is 1/4 wave, so it is at least that good. Upon further examination, I believe the reading on the 1/4 wave diameter is false, and with some doctoring, is probably closer to 1/10 wave. I couldn't find anything wrong with the 1/5 wave readings, so one diameter still reads 1/5 wave. The overall figure is anybody's guess, maybe 1/8 wave? Anyway, it's a good mirror.

For those of you contemplating doing your own mirror, you should know that it doesn't take this long to make one. I have never been known for my speed or my burning ambition. This was a part-time thing. Six-inch mirrors have been completed (by experienced makers) in one day, so don't be discouraged.

Eric Allen

We need to thank Eric for his hard work. Now we need to move on and figure out what we want to do with the mirror and build the Cassegrain scope for it.

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### **IAS Calendar of Events for October**

General Meeting October 22

Board Meeting October 25

### **Observing Activities**

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## NAG

We have finished another successful year with our NAG activities. I want to thank John Molt for his efforts this year as the NAG Coordinator. Ideas on how to improve the program would be greatly appreciated. We do need more help with

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## Okie-Tex Star Party

Our annual exodus for the Okie-Tex Star party began three days before the party. This party is located in the absolute north west corner of the panhandle of Oklahoma. it is an interesting terrain with Black Butte nearby which is the highest point of Oklahoma.



The IAS Group Shot (Missing Joe & Pat Goss, Chris and Angela Dietz)

We had strange weather. Generally, it was great observing weather. There was a slight haze that prevented Bill from seeing his unseeable planetaries and his double stars. Later in the week the weather became better and I was working on 15th magnitude galaxy clusters. We had about 200 people that descended on the party, most of whom were Oklahomans and Texans. There was absolutely no dew. If you left a piece of bread out, it became a crouton instantly. Joe Wambo developed quite a cluster when he unveiled the 32". People even began to bring him observing lists. We had a pretty good smattering of scopes from the 32" to 12"

Bill found as bone for the dog.



Bill at the Dinosaur dig

This party is a long way from Indy but it is worth the drive. It is extremely remote and a friendly environment. I recommend you try it at least once

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### **Activities for September:**

#### **Link Observatory**

Hog Roast October 22

#### **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**

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 monthly during our 2010 observing season. And if you want to follow the Sun in between our monthly Solar Telescope openings, the website [www.spaceweather.com](http://www.spaceweather.com) provides daily updates.

## **IU Kirkwood Observatory**

Kirkwood Observatory on the IU campus will be open each Wednesday evening through the summer, 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.

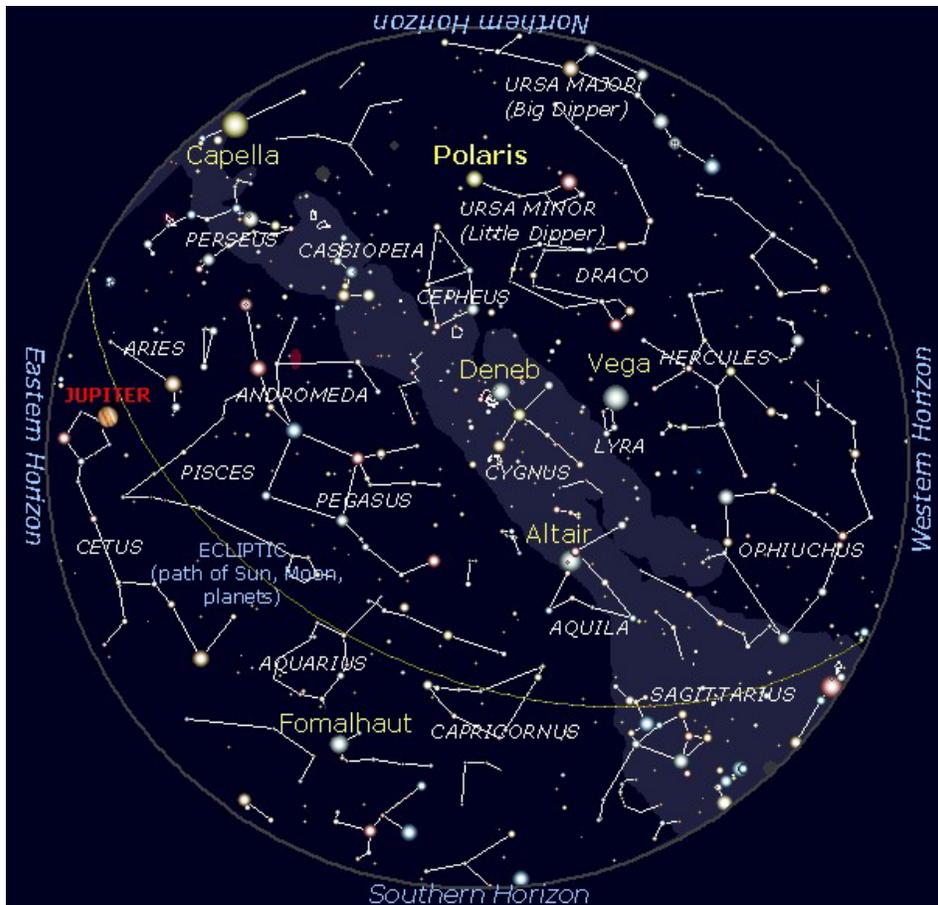
The IU Astronomy Department has an electronic bulletin to let people know about local astronomy activities and events. If you would like to subscribe, send an email to [astdept@indiana.edu](mailto:astdept@indiana.edu) and we'll put you on the distribution list. Information about activities and events to be included in the e-bulletin should be sent to [catyp@astro.indiana.edu](mailto:catyp@astro.indiana.edu)

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### **Star Gazer**

September 23, 2011

Stargazer #565ober 2011



This chart shows the night sky as appears **on the 1st at 10 p.m., on the 15th at 9 p.m., and on the 31st at 8 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 a 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**  
Oct. 1 – Sunrise: 7:22 a.m.; Sunset: 7:14 p.m. / Oct. 15 – Sunrise: 7:32 a.m.; Sunset: 6:57 p.m. / Oct. 31 – Sunrise: 7:44 a.m.; Sunset: 6:40 p.m. (exact for Waco, TX)
- **Moon**  
Oct. 3: 1st Quarter / Oct. 11: Full / Oct. 19: 3rd Quarter / Oct. 26: 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°.]

**Oct. 3 Mon. evening:** The Moon is at 1st quarter.

**8 Sat. all night:** The Draconid (Giacobinid) meteor shower peaks but the nearly full

Moon will wash out all but the brightest meteors.

**11 Tue.:** The full Moon is called the Hunter's Moon and the Dying Grass Moon.

**19 Wed. morning:** The Moon is at 3rd quarter.

**21 Fri. morning:** The Orionid meteor shower peaks tonight with the best views likely to come before the Moon rises in the wee hours of morning.

**26 Wed.:** The Moon is new.

**27 Thu. early evening:** A thin crescent Moon (bottom), Mercury, and Venus (top) are aligned vertically just above the western horizon after sunset.

**28 Fri.:** Jupiter is at opposition – opposite the Sun as seen from Earth – when it rises at sunset, is up all night, and sets at sunrise.

**31 Mon.:** Halloween, a cross-quarter day celebrating the middle of fall.

- **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 (setting low in west), Jupiter (rising in the east), Mercury (west, late in month)

**Mornings:** Mars (east), Jupiter (east), Mercury (early in month)

\* *Mercury* emerges low in the west late in the month.

\* *Venus* is climbing higher daily, becoming the prominent “evening star” in the west. \*

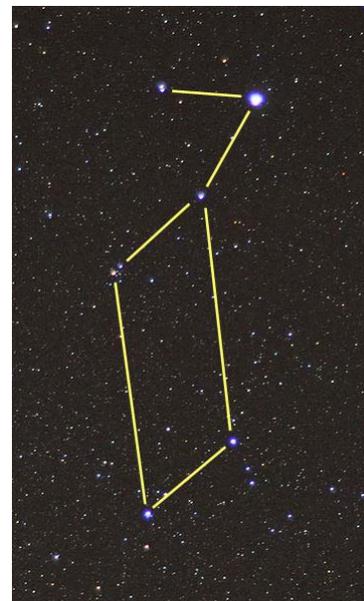
*Mars* is up in the east well before sunrise.

\* *Jupiter* rises in the early evening and is high in the west by morning.

\* *Saturn* is now hidden in the Sun's glare.

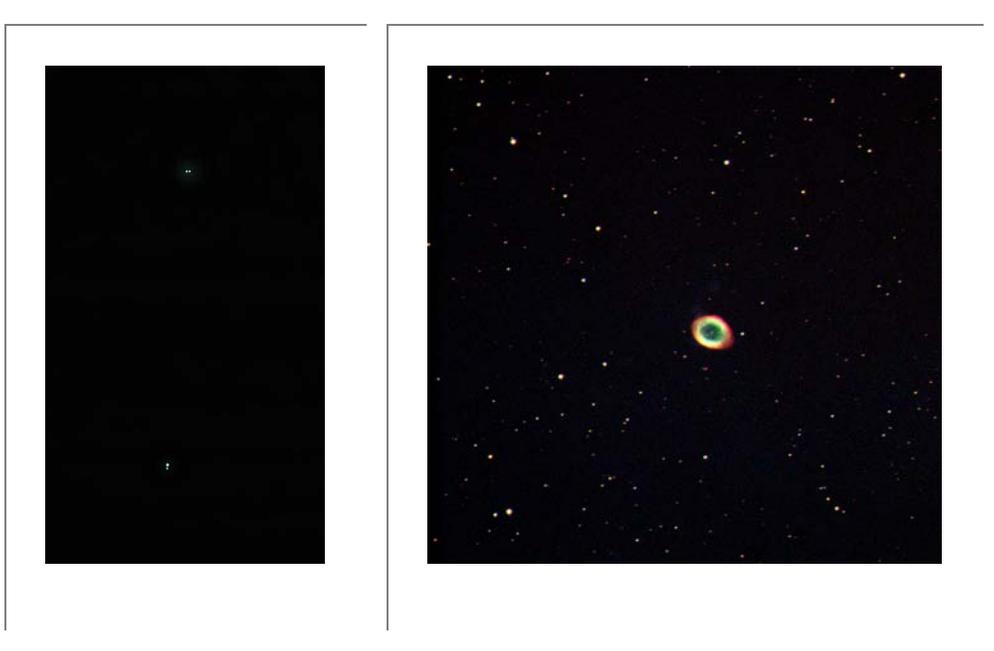
- **Constellation of the Month**

- Lyra the Musical Lyre is a small constellation just to the west of Cygnus the Swan and the Milky Way. Being rather northerly, it is visible in our evening skies over half the year, from June through December. While it may not look like a musical instrument, its shape is distinctive – a parallelogram hanging from an especially bright star, 1st-magnitude Vega, the fifth brightest star in the night sky.
- It's hard to miss Vega, being the most brilliant object nearly straight overhead in the early evenings of fall. Situated 25 light years away, Vega was made famous in the movie “Contact” based on Carl Sagan's novel. In the story a radio astronomer, played by Jodi Foster, discovered a radio message from intelligent beings seemingly coming from Vega.
- Vega also combines with the brightest stars of two other constellations, Deneb (in Cygnus the Swan) and Altair (in Aquila the Eagle), to form the large Milky Way Triangle (also known as the Summer Triangle) now high overhead.
- In addition to Vega, Lyra also contains other jewels, two of which are Epsilon Lyri and the Ring Nebula. Epsilon Lyri looks like a rather ordinary star a finger-width (held at



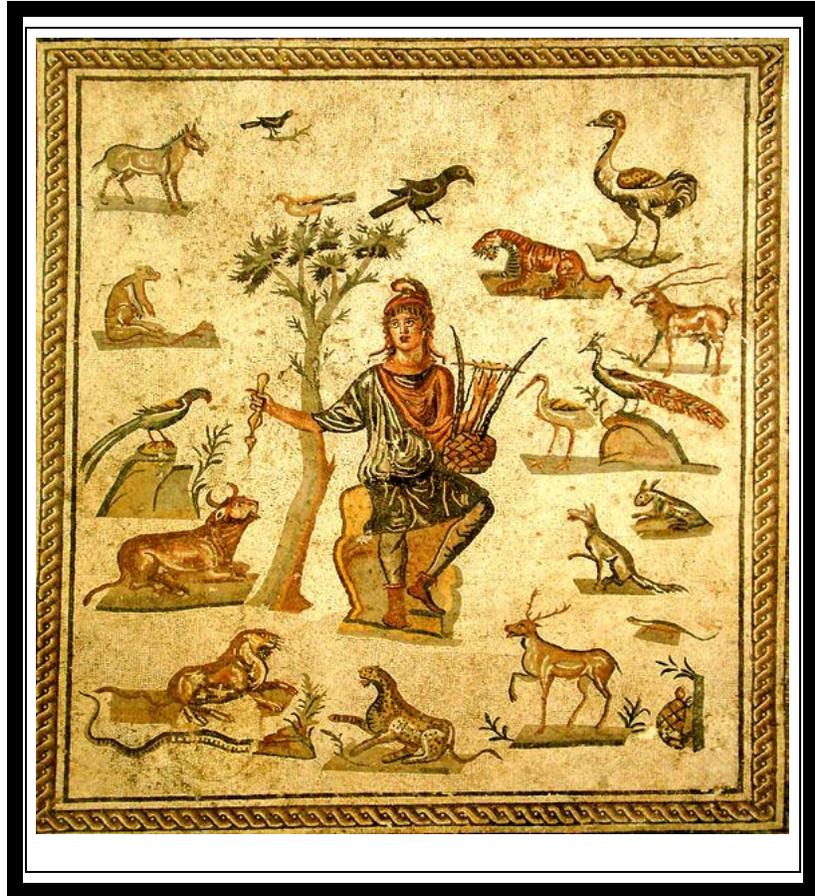
arm's length) from Vega which binoculars show to be a double star. But that isn't the whole story as a telescope at high power reveals each of those stars to be a double star, hence the star's nickname, the Double-Double. These four stars, along with a couple of even fainter ones, form a multiple star system in which all the stars are gravitationally bound and orbit a common "center of gravity."

- The Ring Nebula, also known as M57, is one of the most popular and well-known planetary nebula. The term is misleading as it has nothing to do with planets; rather it is the visible remnant of dead star. Through a telescope M57 looks like a tiny, faint greyish donut-shaped cloud while astrophotography displays its rich colors. Unseen at the center is a small, Earth-sized dead star called a white dwarf, the hot and still-glowing "corpse" of a giant star that died less than 2,000 years ago at a distance of 2,300 light-years. The visible cloud is the star's outer shell of gasses that were blow away during the star's last gasp of stellar life. The Ring Nebula gives a preview of what our Sun will look like when it dies in 5-6 billion years.



- **Images: Lyra (Scott Roy Atwood) / Epsilon Lyri (Astrokay's Website) / Ring Nebula (Meyer Observatory, Central Texas Astronomical Society)**
- **Lyra in Greek Mythology**

- Lyra is one of the 48 constellations from antiquity. In Greek mythology the harp-like stringed instrument belonged to Orpheus, the superbly gifted minstrel whose music and voice could charm people, tame wild animals and even change the flow of rivers. It was given to Orpheus by the god Apollo who



- taught him to play with the power of a god. Like Willie Nelson and his guitar, Orpheus and Lyra were widely traveled. They accompanied Jason and the Argonauts on their quest for the Golden Fleece, and saved the ship and crew from certain shipwreck by drowning out the sinister singing of the seductive Sirens with powerfully beautiful music.
- But alas, his life ended prematurely. His wife, the beautiful nymph Eurydice, died when bitten by a snake. Orpheus was so grief-stricken that, with lyre in hand, he climbed down into the Underworld to retrieve Eurydice. His music had such power that even Hades (Pluto) agreed to allow her to accompany him back to Earth – on the condition that Orpheus would refrain from casting his gaze upon her until they were completely out of the Underworld. Unfortunately, just before reaching Earth's surface, he couldn't resist glancing back to make sure she was still with him, and when he did, she immediately vanished and returned once again to the Land of the Dead.
- The grief of losing his lovely young wife, not once but twice, was more than he could bear. Thereafter he forsook the company of all women, causing the wild women of Thrace, out of jealousy, to kill him. They threw his lyre into the river as Orpheus himself descended into the Underworld to spend eternity with his beloved wife, Eurydice.
- Zeus, the king of the Gods, had Aquila the Eagle retrieve Orpheus' lyre from the river and carry it into the sky where Lyra continues making music for the whole world to enjoy.
- **Image: Orpheus and Lyra charming the wild animals with music. Credit: An ancient Roman floor mosaic now in the Archeological Museum of Palermo, photographed by Giovanni Dall'Orto in 2006.**

- **Astro Milestone.** Oct. 4, 1957, the Russian's launched Sputnik I, the first human-made Earth-orbiting satellite, beginning of the Space Age. Oct. 29 is the birthday of Edmund Halley (1656-1742), English astronomer of Halley's Comet fame.
- **Star Parties.** The Central Texas Astronomical Society's simultaneous free monthly star parties are Saturday, Oct. 22, at the Lake Waco Wetlands, Belton's Overlook Park on Stillhouse Hollow, and Hubbard City Lakes Park beginning at 7 p.m. CTAS also owns and operates the Meyer Observatory at the Turner Research Station near Clifton, TX; the next monthly observatory open house is Saturday, Oct. 8, 7-9 p.m. See [www.centexastronomy.org](http://www.centexastronomy.org) for more information.

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## **IAS LIBRARY:**

There is now a link on our website page for our new Multi-Media Library. Greg has built this library of 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. Greg has many more sources to go through so the library will continue to grow. If you have comments or questions about the library please contact Greg McCauley. (Contact Greg via the webpage [iasindy.org](http://iasindy.org) under the contact us section

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## **IAS Membership Status**

**The following changes in membership took place in September:**

**Total Membership 147**

**Renewals: 9**

**New student members:**

**Rachael Freeman -Indianapolis**

**New Members:**

**Shashi Penumarthy**

**Inactive status:**

Sean Barr - Westfield

Tom Borlik -Indianapolis

Daniel Cervantes - Bloomington

Robert D. Stegner - Indianapolis

Mike and Sandy Wolford - Spencer

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## **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](mailto: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](mailto:wmtconner@att.net)) - for CCD imaging and film photography.

Jeff Patterson (Contact Jeff via the webpage [iasindy.org](http://iasindy.org) under the contact us section) –  
Observatory design and construction  
Eric Allen ([ericandroberta@sbcglobal.net](mailto:ericandroberta@sbcglobal.net)) - Telescope making and mirror grinding  
Brian Murphy ([bmurphy@monumentcompanies.com](mailto:bmurphy@monumentcompanies.com)) - "telescope construction and collimation".

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### **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](http://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](http://iasindy.org) under the contact us section)

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### **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](mailto:KB9SRB@Hotmail.com)

#### **For Sale**

Losmandy GM-8 mount with tripod, several weights. Works great just have too many mounts.  
\$1000 Call Jeff Patterson at 317 506-0325 or [KB9SRB@Comcast.net](mailto:KB9SRB@Comcast.net)

#### **For Sale:**

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

Registered Zambuto mirror – never washed

Excellent condition, Bought new in 2003, Always stored indoors

Rarely used in the past 3 years

Features include:

- Sky Commander Digital Setting Circle
- Sky Tracker GoTo tracking system
- 1.6" thick mirror for quick cool downs
- Feather Touch Precision Focuser
- AstroSystems DewGuard and wiring package
- TeleVue ParaCorr

- Kendrick Laser Collimator and Cheshire Collimator system
- Two Gel Cell 12 volt batteries with Charger
- Telrad Reflex sight
- Catsperch observing chair
- Cover for Truss units

Price: \$ 5500.00

Direct cash purchase only

Email [ldenglish32@gmail.com](mailto:ldenglish32@gmail.com)

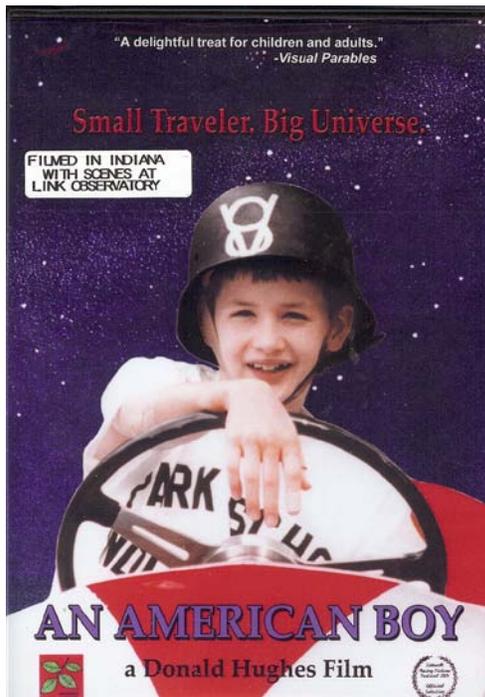
Phone: 317-518-0601

### 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 Tom Borlik or 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](mailto: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](mailto:bruce.bowman@tds.net) or call 317-539-2753

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## **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](http://iasindy.org) under the contact us section**

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## **Board Meeting –October 25, 2011**

The IAS Board Meeting is being held at 75 Executive Dr. Carmel, IN. please contact Jeff Patterson via the webpage [iasindy.org](http://iasindy.org) under the contact us section

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## 2011 Calendar of Meetings

	<b>NAG</b>	<b>General</b>	<b>Board</b>
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	

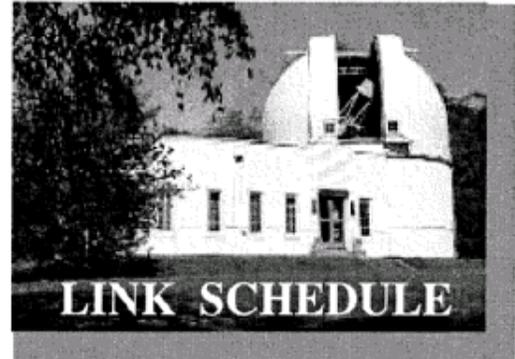
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### Goethe Link Observatory

#### 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](http://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](http://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](mailto:KB9SRB@hotmail.com)

**Membership information Contact via the webpage [iasindy.org](http://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](http://iasindy.org) under the contact us section**

**Public Event Coordinator**  
Gerald Venne **Contact via the webpage [iasindy.org](http://iasindy.org) under the contact us section**

**Equipment Loan Program Coordinator**  
Philip Dimpelfeld **Contact Phil at [philip.dimpelfeld@comcast.net](mailto:philip.dimpelfeld@comcast.net)**

**Membership Coordinator**  
Vicki Switzer **Contact Vicki via the webpage [iasindy.org](http://iasindy.org) under the contact us section**

## October Calendar, 2011

**For a more detailed Calendar of Events see the webpage [www.iasindy.org](http://www.iasindy.org)**

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
						1
2	3 1 <sup>st</sup> QTR ☾	4	5	6	7	8
9	10	11	12 Full Moon ○	13	14	15
16	17	18	19 3rd QTR ☾	20	21	22 Hog Roast 5:00 PM
23	24	25 Board Meeting	26 New Moon ●	27	28	29 NAG 7:00)PM
30	31					