

December, 2010  
Volume 77, Issue 12  
www.iasindy.org

# The IAS News & Views



**The December General Meeting, December 18, 2010  
7:00 PM  
Holcomb Observatory  
Butler University**

## **Annual Christmas Party and General Election Night**

Our annual Christmas party will be held at the Holcomb Observatory beginning at 7:00 PM. Come One! Come All!! The Society will provide the meal. Angie Molt is cooking turkey/ham, scalloped potatoes, green beans, veggie platter, fruit platter, assorted side dishes, dips (etc.) and brownies. Members who wish may bring a dessert. There will only be a short business meeting to get the election out of the way but then it is time to have some good food and chat with our friends.

## ***IAS NEWS***

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### **Election Night December 18, 2008**

According to the By-Laws of the IAS, the IAS elections will take place during the Annual Meeting to be held December 18, 2008 at the Holcomb Observatory on the Butler campus. The meeting begins at 7:00PM. All members in good standing and their spouses are eligible to vote. If you cannot attend, you may mail a signed absentee ballot to the Secretary. Absentee ballots must be received prior to the election. Additional nominations may be made from the floor by any member at the time of the election. All nominees must agree to serve prior to the election.

Offices shall be filled by election by majority vote of the membership at large at the annual meeting. Votes by absentee ballot shall be recognized provided the signed absentee ballot is received by the Secretary before or during the annual meeting. Votes by proxy will not be recognized.

**The Report of the Committee on Nominations**

The following slate of candidates have been received and candidates have agreed to run.

President -  
Jeff Patterson

Vice President and Program Chairman -  
Doug Brown

Treasurer:  
John Shepherd

Secretary:  
Betsy Brown

Board of Directors (Three to be elected)  
Tom Borlik  
Ron Burgess  
Jeff Clemens  
Phil Dimpelfeld  
Marion Hakes

Report presented by Jeff Patterson  
Nominating Committee

If you cannot attend the meeting on Election Night, please vote absentee. We need your participation.

Absentee Ballot

President: \_\_\_\_\_

Vice President: \_\_\_\_\_

Treasurer: \_\_\_\_\_

Secretary: \_\_\_\_\_

Board of Directors (vote for **Three**)

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Signed: \_\_\_\_\_

Mail ballot to  
Betsy Brown, Treasurer  
1546 Trace Lane  
Indianapolis, IN 46260  
Absentee ballots must be received prior to the election

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## Meet Your Candidates

### President

**Jeff Patterson** – I joined the Society in 1994 when I had bought a used Celestron C-6 Newtonian and wanted to learn more about the sky. I thought that a Society would be a good way to learn from others. A friend of mine who was a member of the IAS invited me to a meeting at Butler and I was hooked. I truly enjoy the many friendships that I have had with IAS members and members of other societies. I now have friends all over the country that I look forward to meeting each time I go to a star party. I have served many positions in the Society; Editor of the Bulletin, Board member several times, Secretary, Vice President and Program Chairman and President. I have been involved and am deeply interested in public outreach. I love to show kids their first view of the Moon or Saturn. I am an avid star party attendee and you will generally find me at local and regional parties with my Dob looking at the faint fuzzies. Next year, I plan to develop a program observing the planets and the moon. If elected, I will work hard next year with the new opportunities at the Link in its preservation and expansion of its programs as well as expanding our programs at McCloud.

### Vice President and Program Chairman

**Doug Brown** - When I was 10 years old, I developed a real fascination for astronomy, thanks to my fourth grade teacher. In the mid-1990's, that interest was rekindled and I joined the IAS. This was a great move as I have enjoyed many IAS activities: the meetings, outreach programs, and observing at Link, McCloud, and at dark sky sites. I am an amateur telescope maker and have made several Dobsonian telescopes -- I am now finishing a 15in. I have been on the IAS Board for about 8 years. I helped rewrite the New Members Brochure, hoping to encourage our new members to become more active in the Society. I have worked at the outreach events and think these programs make a valuable contribution to the public. I would like to see us work to get more of our members to participate in outreach and observing events. As vice president and program chairman, I would like to expand our base of outside speakers to appeal to a variety of astronomical interests.

### Secretary

**Betsy Brown** - I started coming to the general meetings of the IAS about 11 years ago with my husband, Doug. I don't have a science background, so you can imagine how surprised I was to learn how much I liked astronomy and the club. I really enjoy going to IAS events and participating in our outreach programs. I always get a bang when a kid looks at Saturn for the

first time and says “cool”! When observing, I use a small Dob and like the challenge of finding globular clusters, nebulae, and other deep sky objects. It has been fun going to star parties and meeting other amateurs, and I hope to go to many more star parties in the future.

Having served as the IAS secretary for the past three years, I also helped edit the New Members Brochure. If re-elected, I would be happy to serve as the club’s secretary for another year.

### **Treasurer**

**John Shepherd** - I first began attending the IAS in 1968 when Dick Schlegel, a co-worker, told me about the Society when it was meeting at Indiana Central (now Indianapolis University). I attended for about one year until I started at Purdue. I rejoined in 1999 and since then I have served as treasurer for 5 years. My main interest is observing and the study of cataclysmic variable stars from both a taxonomic and etiologic perspective.

### **Board of Directors**

**Tom Borlik** - Although my interest in astronomy seemingly dates back to the dawn of time (I was present when the up-thrown femur bone morphed into the orbiting space station and it was the first time that I heard Strauss), in reality it began with the close opposition of Mars in August of 1956. The excitement & enthusiasm of that period is closely paralleled in the 1st chapter of Timothy Ferris’s book *Seeing in the Dark*.

My first telescope was co-owned with another young high school-bound student (a shared economic adventure because of its extravagant cost of \$8). It was a 2-inch F/25 single element refractor with state-of-the art Huygens eyepieces on a shaky alt-azimuth mount. *I never realized that the stars had so many colors!* My 1<sup>st</sup> really spectacular view was that of Saturn through a home-made 8-inch reflector belonging to an Irma DeBrucker who was the editor of the newsletter of the St. Joseph Valley Astronomical Society (South Bend).

Mentored by many members of that group including grinding my first 6-inch mirror, I attended a summer science program at Indiana University between my junior & senior years of high school where I spent six weeks with their astronomy department. Even though I eventually ended up with an undergraduate degree in astronomy, I never pursued that as a career.

I joined the IAS sometime in the mid 70’s when it was directed by Walt Wilkins. In the early 80’s I ended up building an observatory (named the Chesley Bonestell Observatory after the 1<sup>st</sup> space artist) in our backyard. My grandiose plans called for doing photometric research with its C14 and photometer – data logging being done by a then very powerful VIC-20 computer - fell by the wayside when we had our 2<sup>nd</sup> & 3<sup>rd</sup> sons born about 21 months apart. From then on astronomy took a back seat after seeing both sons, as well as an older son, through all their science projects, invention conventions, school programs, Little League games, Cub Scouts, then Boy Scouts and seemingly never-ending other sporting venues.

As far as the IAS goes, it has changed from a seemingly lethargic group to one that today is very active with its many different programs that span all interests in astronomy. Look at the change to our website this year – thanks to some really dedicated people! *I would like to*

*see that continue.* Although my primary interest recently has been the preservation of the Goethe Link Observatory, I would hope to do more for our organization as an involved IAS Board member. Sharing the wonders and mysteries of the night sky should be our primary goal.

**Ron Burgess** --Merry Christmas: My name is Ron Burgess and I would like to run for election as an I.A.S. board member in the December elections. I have been an I.A.S. member since 1999. I enjoy a variety of general observing as well as local star parties. I enjoy teaching aspiring astronomers about our sky. Also I would like to encourage lots of input from all the I.A.S. members as to what they would enjoy seeing our club do this upcoming year. Myself, I support creation rather than evolution. This comes after a LOT of research on this topic. Hope to see you at the Dec. 18th meeting. Thanks-Ron.

**Jeffrey Clemens** - I have been a member of IAS for just a few years and have benefited greatly from the programming, camaraderie, and member's willingness to share their passions and interests in astronomy. When I was an academic scientist, I shared the passion of my science with students at a time when new electronic communication tools were entering the classroom. In the past year, I have worked with the Board to develop the Society's Facebook page. As a board member, I would work to continue this electronic outreach to new and existing members. I believe that the Society can use this channel to further its goals of outreach and education about astronomy. I'd like to encourage members to use the IAS Facebook page to share their interests, report on their observations, share their pictures and updates from star parties, and their latest spectacular astrophotography.

**Phil Dimpelfeld** - I have been a member of the Indiana Astronomical Society for two years. How the time has flown! I am a Mechanical Engineer living in Columbus, Indiana. I am also a member of the Stonebelt Stargazers, a smaller astronomy club in the Bedford area. In 2010, I became the IAS Equipment Loan Coordinator. This year, we upgraded three of the loaner telescopes with Right Angle Correct Image finderscopes. Moon filters were also added to the eyepiece sets that are loaned out, making the loaner telescopes more "user friendly". I presented two of the programs for the New Astronomers Group meetings this past summer. I am an active observer (Naked Eye, Binocular, and Telescope), with several Astronomical League Observing Clubs completed. I believe the Link Observatory is a great asset for the IAS, but one that needs to be better utilized. Fighting light pollution is another area where the IAS could become more involved. I really enjoy the IAS and look forward to making it even better!

**Marion Hakes** - I live in Franklin IN for the past ten years and have been a member of the IAS since that time. I am a former member to the Ft. Wayne Astronomical Society and also served as an officer and board member to that club. I have served previously has a board member to the IAS for one term.

Member, Trustee, and Board of Director of the Edinburgh First Church of the Nazarene. I enjoy sharing the wonders of God's celestial creations with the public and have been studying research into the creation as discussed in the Book of Genesis.

I have been married for 24 years and have one son who has been coming to the meetings with me several times. I am a Journeyman meat cutter for Marsh Supermarkets for the past 15 years.

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## IAS Calendar of Events for December

December 18 - general meeting at Holcomb Observatory

### Observing Activities

**None planned**

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#### Activities for December:

##### **Link Observatory**

None planned

##### **McCloud Activities–**

NAG –There is no NAG. See you next May.

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 Observatories 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).

## NASA Space Place

Blue Rings around Red Galaxies

by Trudy E. Bell and Dr. Tony Phillips

Beautiful flat rings around the planet Saturn are one thing—but flat rings around entire galaxies?

That is the astonishing discovery that two astronomers, Samir Salim of Indiana University at Bloomington and R. Michael Rich of UCLA described in the May 10, 2010, issue of *The Astrophysical Journal Letters*.

“For most of the twentieth century, astronomers observing at visible wavelengths saw that galaxies looked either ‘red and dead’ or ‘blue and new,’” explained Salim. Reddish galaxies were featureless, shaped mostly like balls or lentils; bluish ones were magnificent spirals or irregular galaxies.

Elliptical galaxies looked red, astronomers reasoned, because they had mostly old red giant stars near the end of their life cycles, and little gas from which new stars could form. Spiral and irregular galaxies looked blue, however, because they were rich in gas and dust that were active nurseries birthing hot, massive, bluish stars.

At least, that's how galaxies appear in visible light.

As early as the 1970s, though, the first space-borne telescopes sensitive to ultraviolet radiation (UV) revealed something mysterious: a few red elliptical galaxies emitted “a surprising ultraviolet excess,” said Rich. The observations suggested that some old red galaxies might not be as “dead” as previously supposed.

To investigate, Salim and Rich used NASA's Galaxy Evolution Explorer satellite to identify 30 red elliptical galaxies that also emitted the strongest UV. Then they captured a long, detailed picture of each galaxy using the Hubble Space Telescope.

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“Hubble revealed the answer,” says Salim. The UV radiation was emitted by enormous, flat bluish rings that completely surrounded each reddish galaxy, reminiscent of the rings of Saturn. In some cases, the bluish rings even showed a faint spiral structure!

Because the bluish UV rings looked like star-forming spiral arms and lay mostly beyond the red stars at the centers of the elliptical galaxies “we concluded that the bluish rings must be made of hot *young* stars,” Salim continued. “But if new stars are still being formed, that means the red-and-dead galaxies must have acquired some new gas to make them.”

How does a galaxy “acquire some gas?” Salim speculates that it was an act of theft. Sometimes galaxies have close encounters. If a gas-rich irregular galaxy passed close to a gas-poor elliptical galaxy, the gravity of the elliptical galaxy could steal some gas.

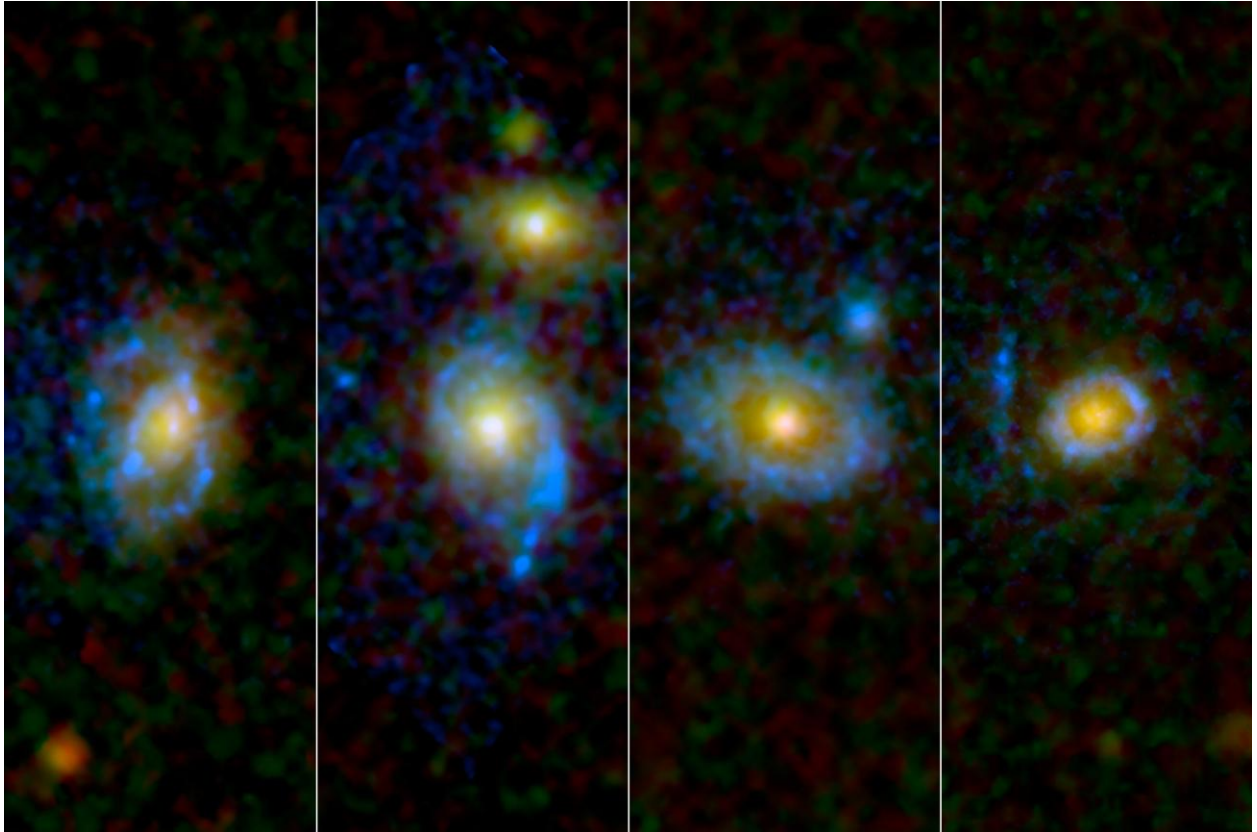
Further studies by Galaxy Evolution Explorer, Hubble and other telescopes are expected to reveal more about the process. One thing is certain, says Rich: “The evolution of galaxies is even more surprising and beautiful than we imagined.”

The press release is available at <http://www.galex.caltech.edu/newsroom/glx2010-03f.html>. The full published article is “Star Formation Signatures in Optically Quiescent Early-Type Galaxies” by Samir Salim and R. Michael Rich, *The Astrophysical Journal Letters* 714: L290–L294, 2010 May 10.

Point the kids to the Photon Pile-up Game at <http://spaceplace.nasa.gov/en/kids/galex/photon>, where they can have fun learning about the particle nature of light.

This article was provided by the Jet Propulsion Laboratory, California Institute of Technology, under a contract with the National Aeronautics and Space Administration.





*The Galaxy Evolution Explorer UV space telescope helped to identify red elliptical galaxies that also emitted the strongest UV. These are detailed, long-exposure Hubble Space Telescope images of four of these galaxies that capture the UV-emitting rings and arcs indicative of new star formation.*

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## **Stargazer**

STARGAZER #544 for Nov. 13, 2010

Eldorado Star Party One of Many

This column comes to you from the Eldorado Star Party where I'm enjoying the wonderfully dark skies of west Texas with nearly 200 other stargazers. Organized by volunteer amateur astronomers, the week-long event takes place every fall on the X-Bar Ranch Nature Retreat between the small towns of Eldorado and Sonora.



**Waiting for dark at the Eldorado Star Party**

ESP ([www.texasstarparty.org/eldorado.html](http://www.texasstarparty.org/eldorado.html)) is one of several annual, week-long star parties held in this part of the country. Another is the Okie-Tex Star Party held each fall at Camp Billy Joe in the far western part of the Oklahoma panhandle. Okie-Tex ([www.okie-tex.com](http://www.okie-tex.com)) is a really long drive from just about everywhere, but it's remarkably dark skies attract some 400 stargazers.

The Texas Star Party, held every spring since the 1970s, is the granddaddy of the region's star parties, attracting some 500-600 stargazers from across the U.S. and beyond. TSP ([www.texasstarparty.org](http://www.texasstarparty.org)) takes place at the Prude Ranch in the Davis Mountains of far west Texas and offers superb dark skies at an elevation of 5,000 feet.

An additional attraction of TSP is its proximity to the nearby McDonald Observatory, a world class research facility operated by the University of Texas at Austin. In addition to its three huge research telescopes, a terrific visitors center features daily indoor exhibits, programs and solar telescope viewing and evening star parties every Tuesday, Friday, and Saturday night of the year.

Many public parks -- state and national -- are taking note of the value of dark skies. Some national parks, like Texas' Big Bend in far west Texas (my favorite), are redesigning park lighting to preserve their natural dark skies. Pedernales Falls State Park in Central Texas is constructing an outdoor Star Theater specifically for star parties.

Even private organizations are responding, such as the non-profit Three Rivers Foundation for the Arts and Sciences ([www.3rf.org](http://www.3rf.org)) with its facility near Crowell in north central Texas. Open year-round, 3RF hosts public star parties, educational events for school children, teacher training workshops, and other programs.

The major attraction of these more isolated star party sites derives from the sad fact of increasing light pollution. As our urban areas sprawl and spread light into formerly rural areas, dark skies are increasingly difficult to find. Even so, stargazing is not impossible nearer urban areas; we're just limited in how much we can see. So if it's not feasible for you to visit any of these far-away sites, inquire around -- there might be something in your area as many astronomy clubs offer public star parties, some even within cities.

**Next Two Weeks.** Avg. sunrise: 7:01 a.m.; avg. sunset: 5:27 p.m. (exact for Waco, TX)

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- \* The Moon is at 1st quarter tonight (Saturday).
- \* Monday evening the is Moon near Jupiter.
- \* The Leonid meteor shower peaks the night of Tuesday evening/Wednesday morning with the best viewing in the 2-3 hours between moonset and dawn.
- \* The Nov. 21 full Moon is called the Frosty Moon, the Beaver Moon, and the Snow Moon.

**Naked-eye Planets.** Brilliant Jupiter, high in the southeast in the evening, sets by 3 a.m. Saturn rises three hours before the Sun and well up in the east at dawn.

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Stargazer appears every other week in the *Waco Tribune-Herald* and other newspapers. Paul Derrick is an amateur astronomer who lives in Waco. Write him at 918 N. 30th St., Waco, TX 76707, call or fax at (254) 753-6920, or e-mail at [paulderrickwaco@aol.com](mailto:paulderrickwaco@aol.com).

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**\*\* See the Stargazer Web site at <http://www.stargazerpaul.com>. \*\***

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## **Membership Status**

The following changes in membership took place in November:

Total Membership 151

Renewals: 6

New student members:

New Members:

Russ and Pete Barton - Indianapolis

Jennifer Hatmacher - Zionsville

Inactive status:

Michael Owens – Anderson

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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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## **Do you have a question or need?**

We are establishing 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](http://iasindy.org) under the contact us section) –  
Observatory design and construction

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

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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: Complete astro imaging system** -Meade ETX-125 PE - 5" f/15 Maksutov-Cassegrain with UHTC:

featuring Level North Technology (automatic alignment).

(Original cost new - \$1194.00)

Telescope includes Deluxe Field Tripod w/case, SmartFinder, #497 GOTO Autostar computer handbox with over 30,000 celestial object library, Series 4000 Super Plossl 26mm eyepiece, Autostar Suite software, and instruction manual.

Included Accessories:

\* Meade Aluminum Case - \$149.00

\* Meade Dewshield - 29.95

\* Meade f6.3 Focal Reducer - 129.95

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\* Meade Erect Image Diagonal - 49.95

\* Meade Back Cell Adapter - 24.95

\* Meade Eyepiece Holder - 25.00

Total Cost New incl Telescope - \$1602.80

Telescope and accessories are in excellent condition due to low usage. All items are still in original boxes.

Asking \$975 which represents 40% off original pricing. Any reasonable offer will be considered and will include a Celestron NexImage Solar System Imager for free. This item has never been opened.

For further information on this excellent Astro-Imaging package, call Bill at (317) 892-2036 or e-mail at [bwilHITE@tds.net](mailto:bwilHITE@tds.net).

### **For Sale**

Celestron Celestar 8" with tripod mount, Dec. motor & hand controller, & instruction manual.

Also included in the package...

Counter balance weight system, Celestron 25mm SMA 1-1/4 eyepiece, Orion Dew Zapper 20w 12v, 8" glare shroud, Full scope astrosystem's weather cover, Antares right angle finder scope, Celestron Star Diagonal 1-1/4" , Stellarvue Red-dot unity finder, Celestron (Pelican style) Hard Case for scope. \$750.

Contact Thad Hatchett at [astronomynut@comcast.net](mailto:astronomynut@comcast.net) or give me a call at home at 812-375-0192.

### **For Sale:**

2 eyepieces for sale:

3mm Televue Radian

7mm Pentax SMC

Both for \$300

Jim Zdobylak

[zobel@aol.com](mailto:zobel@aol.com)

317-862-4715

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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 –There is no Board meeting in December**

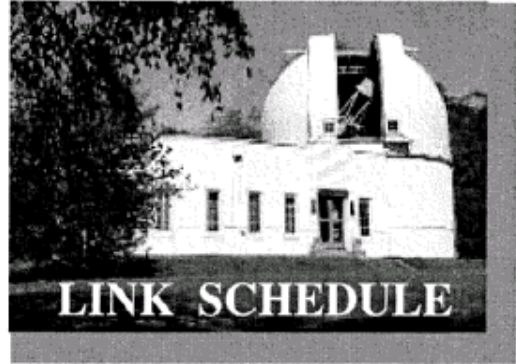
## 2011 Calendar of Meetings

	<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	3-Sep	17-Sep	20-Sep
October		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](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 deadline on the 20th of every month

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

Please submit to

The Indiana Astronomical Society, Inc

The IAS News & Views – The monthly publication of the Indiana Astronomical Society

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

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

## December Calendar, 2010

**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	4
5 New Moon ●	6	7	8	9	10	11
12	13 1 <sup>st</sup> QTR ☾	14	15	16	17	18 Christmas Party
19	20	21 Full Moon ○	22	23	24	25
26	27 3 <sup>rd</sup> QTR ☾	28	29	30	31	