

Monthly Publication of the Indiana Astronomical Society

October, 2004
Volume 71, Issue 10
www.iasindy.org



The Bulletin

The October General Meeting, October 9, Will Return To The Link!!!!

**Come One Come all to the traditional Hog Roast!!
October 9, 2004 5P.M.**

The annual hog roast will be held before the October General meeting beginning at 5PM. Please bring a covered dish. The Society will furnish the meat, bread, utensils and drinks. Mike Kirsch is cooking, pork, chicken, and hot dogs. Come out, socialize, and meet your fellow Society members. If you would like to help set up please come out a little early. Tables and chairs need to be moved outside.

October General Meeting –October 9, 7:00 P.M.

A Decade of Observatory Building?

The Louisville Astronomical Society has completed its roll-off roof observatory on 40 acres of club-owned property at Curby, Indiana, 35 miles northwest of the city after nearly a decade. In May of 2004, 250 people came to the grand opening. Since then, hundreds more have attended the monthly public nights to look through the club's 16" Reflector, 12" LX200 CCD imaging scope and the recently donated Meade 178ED 7" Apochromatic Refractor.

President Ken Alderson, construction manager Brian Sieg and other LAS members will join us at our October meeting to tell the story of building an observatory. If you want a preview, go to www.louisville-astro.org, click on photo gallery, and look under Observatory Construction. But beware. You may get the Building Bug!

Note we will raffle two sets of binoculars after the general meeting.

Link Observatory Clean up

In preparation for the hog roast, a clean up day at Link has been designated for Saturday, October 2 beginning at 11:00 AM. We need your help. Bring tools, chainsaws, weed eaters, etc..

Member Brochure Cover Contest – We need entries

The IAS has in the past provided a starter kit for its new members. Included in this kit was a brochure introducing the Society and provided a basic outline on astronomy. Over the years since 1988, the information describing the Society has changed and the much needed update seemed necessary. The Society wants to get back into the practice of distributing the "Starter Kit" to new members. Therefore, IAS astronomers and their family members are invited to participate and create an illustration to replace the old "new member brochure" cover, as shown with this article. A suggested theme of the cover illustration could be about Hoosier Astronomy, but this particular theme is not a requirement. Obviously the theme should be about astronomy. Members can submit more than one entry. To prevent any biased selection, outside judges will be selected from the art community and their names will be announced later. Keep your artwork as creative as possible - something different is needed.

Please submit your original entries to: IAS COVER CONTEST, 1780 S. Morgantown Rd., Greenwood, IN 46143

Questions and other inquiries please contact: Jeff Patterson at 317-882-8055 or e-mail: jmpr@lquest.net

Contest Rules:

- 1. The brochure with its cover will be a 8.5" x 11" vertical publication. The illustration should be proportional in order to take up the entire vertical space.**
- 2. It would be best to create a black/white line drawing with no middle tones.**
- 3. The IAS logo can be inserted into the illustration as long as it is not larger than 1/4 of the entire vertical cover page. The logo is not a requirement. What is a requirement is that you do include the entire wording: The Indiana Astronomical Society, Inc. printed on the cover somewhere and is readable.**
- 4. The illustration will be credited to the artist each time it is published. Your name can be included within the illustration to guarantee your creditation. Please do not copyright your artwork as the material will be used for other IAS purposes, such as: flyers, announcements, tri-folds and the monthly newsletter. These are a few of the possible samples of continuing usage. The IAS will copyright the entire publication in order to protect the text and artwork.**
- 5. The size of the final image should be submitted no smaller than on a 5" x 7" format and no larger than on a 11" x 14" format - keeping in mind that the final image size will be printed on a full 8.5" x 11" format.**
- 6. Remember the drawing should be an original piece of art created by the IAS artist. Do not copy other works - this may cause copyright infringement and an embarrassment to the IAS.**

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Stay away from brand name products. Generic illustrations are best. Do not use recognizable people, they may not be around in years to come.

7. Do not include any image illustration that depicts the Goethe Link Observatory. This site is owned and operated by IU; the Astronomy Department does not want to advertise this site as if it was an IAS facility.

8. More than one entry is allowed to be submitted - no limitation. Once the original artwork is submitted, they immediately become the property of the Indiana Astronomical Society, Inc. It may be necessary to copy your submission(s) for personal record purposes.

9 Deadline: September 30th, 2004

10. The winner will receive an IAS T-shirt and a year's free membership in the IAS.

11. The winner will be announced first at the Link Hog Roast, October 9th, 2004 at the Goethe Link Observatory during the 7pm General Meeting. The winner will also be announced on the IAS website and in the November, 2004 issue of the BULLETIN.

McCloud Under the Stars was a great success!!

For our two day event and general meeting we had 25 scopes and 4 sets of binoculars. Camping was fun and we had a ball. Thanks to Mike Wolford this went off without a hitch and it was a success. We had quite a few from the public to observe and in the afternoon had an interesting presentation by a local beekeeper. We are now talking about doing it again and Mike, in a conversation with a park board member, got a positive read for us to begin discussions about developing a permanent dark site for astronomy. We will try to get it going more in the spring.

Prairie Skies Star Party

The new (old site of Astrofest) Prairie Skies Star Party was a success with about 200 people attending. Terry Steadham and John Molt attended and said it was well organized and observing was very good. There were only a few vendors but Terry said he had a good time.

Astrofest

The Old Astrofest at the new site, Vana's Farm, went off fairly well. Attendance was about 800. Those of us who were Astrofest junkies missed the old site. I believe and I heard others say that the organizers must have gone to the Prairie Skies Party. The New Astrofest needs some better planning. They had speakers set for up to 8 pm and the door prizes were totally unorganized. We were awakened each morning with "Good Morning Astrofesters. It is time for breakfast." Regular time was 8:00 A.M. and 7:00 AM on Sunday morning. I am sure it will be better next year. The new site has tons of room and fairly good facilities. I understand the meals were excellent. There was a huge group of vendors and a great flea market. I had to go to an ATM to make it through the 4 days. Observing was not as good due to the hurricane. There is a large light dome to the north and to the east but Astrofest has never been a great observers event. We had four IAS there and we had a very good time. I personally will probably go to both next year.

Article by Jeff Patterson

Revinia Dark Sky Site – Search for a Dark Site

Article by Jeff Patterson; Comments by Brian Murphy, Wayne McSpadden, and Sherwood Waggey

Brian Murphy has been working with the State with regard to the new forest area south of Martinsville purchased by the State from IPL. The state has built some roads and parking areas. At this time there are no plans to provide additional space for observing. We continue to be in discussion to improve the facilities and provide a safe dark area for the public. In addition we are in discussions with McCloud to see if a more permanent observing site for public astronomy could be developed. Two of our fellow members have gone down and observed at Revinia Woods.

From Brian Murphy: Thank you both for your reports regarding Ravinia Woods. It is interesting to see the differences and similarities to my own observations. I think Ravinia is a little darker than Link. Link has the Indy light dome to the northeast and the growing Martinsville light dome to the southeast. Ravinia is a little further away from the Indy light dome, but more importantly, has the Martinsville light dome on the east-northeast. The south is darker, as Bloomington is the only light dome to the south. The southwest, west, and northwest are about the same as Link. Twice I have observed at Ravinia and then stopped at Link for a naked eye look. Ravinia may be one or two tenths of a magnitude darker at zenith (based on spotting stars in Lyra and counting stars in the great square of Pegasus). Unfortunately the southwest and west (the darkest areas at Link) are quite obscured from observing due to tree growth.

I have come to believe that even a 10' elevation from the surrounding fields makes a big difference is fog/dew formation. With that in mind, please check out an elevated spot next time you go to Ravinia. If you proceed up Duckworth you come to a Y in the road. To the right is Big Hurricane Road. Turn right and star looking for two white pillars that have Ravinia carved into them. Between the pillars is some gravel and a chain gate. Park on the gravel and walk down the lane past the gate. Be careful at night there is a small pond off to the right of the lane. You will come to a clearing. Some scrub trees block the horizon, but it is somewhat open. This site sits on a bluff that is higher than everything thing to the south. I believe that this site could be the best if we can get DNR to clear it.

Aside from the quality of the sky (which is certainly no worse than Link), the greatest attribute of RAVINIA was underscored by Sherwood when he said, "I turned onto Observatory Road to see if anyone had Link open. They didn't, but I went up the Lane to the back field entrance, shut off the lights and engine, and climbed the padlocked gate."

My gripe about Link being our primary observing site is that it is usually locked. With the vagaries of Indiana weather, and our own personal schedules, we never know if an event night at Link will allow observation. One of my primary missions since re-involving my self with the IAS in 1996 has been to find a decently dark site; A site that has a relatively low horizon. And, most importantly, a site that is accessible all the time.

It's very possible that McCloud offers all of these things. Mike is moving forward with formulating a proposal to the Hendricks County Park Board to work with us on installing six or so concrete viewing pads with electrical hookup and, possibly, a warming room/shed. I'm working with Mike on this and I believe it deserves our primary efforts since:

We already have a good track record with them. It already has electric, parking, plumbing. It appears to meet the above "Dark Site" criteria.

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I plan to keep the dialogue with the DNR alive regarding Ravinia. My immediate goal would be to get them to give us access to a spot that is clear of obstructions and is primarily intended only for our (IAS) access after dark. If we can do that, at no cost to the IAS, I say “why not”?

Brian P. Murphy,
V. P. & Program Director
Indiana Astronomical Society

Report of Wayne McSpadden:

Ravinia Woods - 9/1/04 20:30-21:00

Milky Way very prominent. Much more so than even at Link. I thought it was clouds at first.

List of Messier objects easily observed with 10x50 Nikon binoculars:

m22
m28
m8
m20
m7
m55
m11
m13
m92
m31

I'm sure I could/would have observed more, but “Bubba and friend” tooled in with their dogs, guns and portable GPS devices to do a little night hunting, to go kill a few raccoons they said. Armed with only a baseball bat and my binoculars, I decided that I'd be better off exiting the scene while they were occupied chasing those dangerous creatures through the woods. When I left, I could hear them off in the bushes talking, playing with their hand-held GPS devices, trying to find their way back to the parking lot.

Aside from that, with a little work, this area could be made into a great dark site for the club. I was able to see more there in 30 minutes with binoculars than I was able to see from my backyard for the past year with my C-8 telescope.

I stayed in the gravel area just off the road, so there was a little light interference every time a car went by. And when those hunters came barreling in with their lights on bright, they shot my night sight for a few minutes. If we had a large enough group gathered there, that would probably discourage that kind of activity.

As you face away from the road to the right there is a small rise that would be high enough to get around some of the trees to the south. That might be a good area to set up some concrete pads like you mentioned for our use. Also, do you think it would be possible to ask DNR if they would consider removing some of the trees blocking the southern sky from that area?

As far as it being a dark sky location, it's about the best I think we're going to find within relatively easy driving distance in the central Indiana region. I would probably be inclined to go there and use

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the location as best as I could even if we can't get it set aside for the club's use. It's about 30 miles from my house, but the viewing would make it worth the trip for me.

Wayne McSpadden
IAS member since 04/2000

Comments from Sherwood Waggy:

I had driven down to Ravinia Woods in the Morgan-Monroe State Forest last Sunday, and followed your directions to check out the parking area. (I hope you meant the "Welcome" parking area with the covered signboard and wooden trail map box -- empty as it turned out.) In daylight I thought the space was pretty small, especially if there would be more than two vehicles and multiple observers present. I must say, too, that I much prefer lawn to gravel for a working surface; grass gets wet, but it doesn't put all kinds of dust on the underside of duffels and telescope cases and all over the floor of your automobile when you leave. Of course, asphalt and cement are wonderful, but in large parking lots they take a while to cool off, meanwhile radiating convection currents all around. Multiple small paved platforms are really ideal.

Last night I continued north on Duckworth Road about 1.3 miles beyond the "Welcome" parking space. There is a large field on the west side of the road, with a gravel shoulder and lots of sky all around. A tiny brook crosses the road at the south edge of the field. There may also be a brook on the north of the field. It was getting dark when I arrived, so I couldn't really tell if it was a swale or a real ditch channel. On the map you referenced in an earlier email this may be privately owned property, between parcels numbered 65 and 66.

Anyway, I set up my Celestron 11" SCT. The field may have been plowed several years ago, but this year was not. It was well grown over with grass, and covered with matting from an earlier growing season. Four deer greeted me when I arrived, then fled; there were several deer bones in the field, attesting both to deer drinking and carnivores feasting. The ground was firm and level enough, and didn't put much dust on my feet at any time.

Once the moon was well below the tree line, at about 10:15 PM, the sky was a tolerable 5.7 magnitude, but really not much better. There was some sky brightness above every horizon, although only in the northeast did it mount up enough to be localized to Martinsville and perhaps Indianapolis. The Milky Way was well defined but because of the large field area, fog began to form even at the end of twilight, and by moonset I was having serious condensation on my SCT corrector lens. I've resolved to break down and get a solution for dewing: it's usually the thing that brings most observing events to an end, often before midnight. (I'm too old to do any observing when the evening temperature will drop below freezing; I used to do it, but it's just not that much fun any more.) Even an hour after the end of twilight, nothing lower than twenty degrees above the horizon was better than what I can see from a suburban back yard, in terms of steadiness and even magnitude.

So at about 11 PM I struck the site and headed south on Duckworth Road, stopping at the "Welcome" area to check it out visually. I can't tell if it was my imagination or not, but perhaps the sky was 0.2 magnitude better, because the tree line all around reached up significantly higher.

On my way back up Sate Road 67, I turned onto Observatory Road to see if anyone had Link open. They didn't, but I went up the Lane to the back field entrance, shut off the lights and engine, and

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climbed the padlocked gate. I have to tell you, Brian, even though I had to shield my eyes from the yard lights in back of the observatory (which we turn off, of course, for observing), the sky was still probably 5.5, the Milky Way almost as well defined as in Ravinia Woods. And there would be coffee in the kitchen and a flush toilet in the bathroom. The tree line around the field behind the observatory is a little more obtrusive than around the "Welcome" parking, and there were a lot of airplanes in the air causing visual distraction and disturbing meditative opportunities. But given the accessibility of the observatory, I would recommend Ravinia Woods only for the hardcore amateur, not for dilettantes like me, or for greenhorns.

If you can get the DNR to establish a space for observing in Ravinia Woods, especially with some kind of toilet facility, I'd keep it in mind and maybe use it on occasion for variety.

Sherwood Waggy
Member, Indianapolis Astronomical Society

Thanks to these members who are actively seeking out a darker site for the Society. Sherwood, I assure you we will address the availability of the Link this coming year. Another opportunity may be McCloud. Mike Wolford has been discussing the possibility of developing a dark site for observing more often than once each month. That really looks promising. Come on out and hear the presentations at the general meeting. Ask your burning questions of how another society has provided a dark site for its members.

Jeff Patterson
President of the IAS

Upcoming Star Parties and Registrations

Twin Lakes Star Party – October 8-16 Western Kentucky Astronomical Association's great star party in western Kentucky. Information can be found at www.wkaa.net. Several of us will be going to this party.

Winter Star Party – February 7-13. Registration applications need to be received by October 15. See the Southern Sky Astronomical Society's website.
Jeff

If you know of events coming up let me know and I will get them in the Bulletin

Concerns

John May has fallen and broken his hip. He is in Methodist Hospital and would like cards and/or visits. He is in Room B691.

John Brand has fallen and hurt his head. Last report he was doing better.

Ed Otto has been in the hospital but is now released. Hold him in your prayers for a continued recovery.

Keep Ed, John and John in your prayers

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Observer's Corner

Article by Jeff Patterson

It is good seeing the winter stars and objects coming back. I love the Fall. It was good to see the Orion Nebula the other night. I felt like the return of an old friend. Next time you are out I suggest you look for NGC7333. This is a galaxy cluster in Pegasus. If you look really hard you can catch the wispy galaxies that make up this cluster. I found it the other night and then went to Stephen's Quintet which is relatively close to 7333. Boy that was faint even in the 18". Try it as a challenge.

Public Events

Article by Jeff Patterson

One of more fun opportunities as a member of the IAS is to go to various public events and share our hobby with the public. More and more schools are asking for our help to participate in their astronomy events. We need you!! You don't have to be an expert; just willing to take time and show someone the wonders of the heavens. If you have interest, please contact Bill Conner or me.

Indianapolis Public Library – October 18

Johnson County Public Library – October 19

Our Lady Of Grace Elementary- November 2

Challenger Center Anniversary – Brownsburg November 12-13

I will put out a call for scopes with more information as these approach.

New Members - Welcome to the IAS

David Gasch Fishers IN

Robert Hughes Coatsville IN

Chris Chambers Sheridan IN

Find these members and make them welcome.

Elections are Coming

It's that time of year to begin thinking about elections. Each year in November we elect new officers and Board members up for election. This year there will be three Board positions up for election as well as the four officers. If you would like to run or have ambitions to work and help set policy for the Society, please contact one of the officers or Board members. A nominating committee has been selected this month and we will be looking for good candidates. You have to be a member in good standing, a member for a year and willing to attend the Board meeting each month. Actually it is fun guys! We look forward to hearing from you.

The Pres

New Astronomers Group "Eyepieces & Magnifications"

This Months Program will be held October 23 at 7PM at the Link. Note if weather is bad call Jeff Patterson to confirm the program will be presented.

The New Astronomers Group (NAG) is a program designed to teach the novice amateur astronomer and even for those experienced astronomers who may want a refresher course in the basics of

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astronomy. The NAG meets in the early evening of the 4th Saturday of every month at the Goethe Link Observatory. The classes start at 7pm in the Link auditorium. During the winter months, if the snow is deep and/or the temperatures have dropped considerably below freezing, the event will be canceled. To confirm program schedules please contact Jeff Patterson, the temporary NAG program coordinator, at JMPSR@Iquest.net or 317-882-8055. If any IAS member or new IAS member has a suggestion for a meeting topic, please contact Jeff. Also, experienced IAS members are encouraged to participate as an instructor for any choice of the following NAG programs - please volunteer your time and expertise. This should be a fun event as well as being instructive for the novice astronomer.

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 then may be renewed at the owner's request.

To place an ad contact:
Bulletin Editor
Jeff Patterson
1780 S. Morgantown Rd.
Greenwood, IN 46143
317 882-8055
e-Mail: JMPSR@Iquest.net

For Sale - Giro 2 alt-az mount. Not a mark on it. Comes with SS counter weight shaft, 8.8 lb. counter weight and carrying case. \$250
Contact: Jim Rinehart at 317-881-3475 jrine@iquest.net 01/05

For Sale - WAGNER's best Wide Shot Super Duty Paint Sprayer used on Link Observatory Machine Shop only twice & thoroughly cleaned - 7.2GPH - \$150 at Lowes. Used two times. Will sell for \$95 OBO. - Tom Borlik at (317) 849-4113/tomborlik@aol.com .(10/04)

Trade - Telrad with mount for a Rigel with mount. Marion Hakes at vhorani@yahoo.com. (317-370-4425).(01/05)

For Sale - Celestron C-5 with tripod, astromaster(installed), power pack/inverter, cases, filter, eyepieces, and lots more. \$1500 Call: Paul at 317 888-1605 .(10/04)

For Sale - Orion 120st refractor with mount and tripod, dual axis drive. Less than a year old.
Contact: Jerry Vessels at jvessels@iquest.net .(10/04)

For Sale - Price Reduced: 5" f5 refractor, Jaegers Objective. Orion Skyview Deluxe EQ with Accutrack SVD DC Motor Drive (New) 17mm and 12.5mm Plossl eyepieces plus Barlow 3X \$500.00 (OBO) Jerry Barnett (317) 888-8945 .(12/04)

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For Sale - Meade LX200 Schmidt-Cassegrain (non GPS), 10" f/6.3. Equatorial Superwedge, Custom Steel Pedestal, Pictor CCD, and many lenses. Sell whole Package for \$5,482, or portions. Contact: Mike Smith, 317-823-8171 for further details. (10/04)

For Sale: Astro-Physics Star 12ED, F/8.4 120mm Refractor. S/N ED12049. Built in 1991. Includes Parallax mounting rings and original case. A-P offers a focal reducer that fits this scope to make it an F/5.5. I am only the third owner. It is in very good condition, the focuser looks brand new, the optics are excellent. According to Thomas Back of TMB Optical, who wrote a brief history of A-P scopes, this was the first ED scope that Roland Christen of Astro-Physics made. I am offering this to the IAS prior to placing an ad on Astromart. I will wait one week after the September Bulletin is released. \$3500. Also have available two Losmandy G11 mount dovetail plates that mate to the Parallax mounting rings for \$100. Larry Phillips, LLPastro@lightbound.com, 317-739-2447 evenings (Edinburgh phone number), 317-230-2043 days (Indpls number). (12/04)

Loaner Scope Program

Did you know you can borrow a scope 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 scope to buy can borrow one of the Society's scopes for a month or two and see how they like it. John Molt 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 to loan. Contact John Molt at 1star-gazer@earthlink.net.

List Server Now Online - Don't be left in the cold - Sign up!

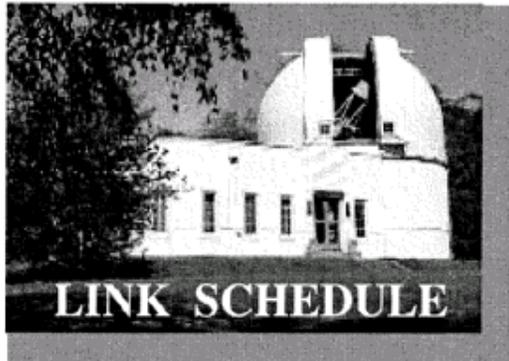
This service is our main communication tool. The list server is in the "Members Only" section of the site and is accessible only by IAS members. Make sure we have your e-mail and you have access for late updates to events and functions.

Note: The list server is for use of Society business. It can only be used according to the rules as outlined previously. Members abusing the service will be eliminated from the service.

October Board Meeting – October 14, 2004 - 7:00 PM

The IAS Board Meeting is being held at 430 Massachusetts Avenue in downtown Indianapolis. The building is at the point of convergence of Mass. Ave., Vermont and Alabama Streets. There is a Starbucks located in the frontage of the building. The coffee shop stays open late into the evening. Try to park as close to Starbucks as possible, preferably in a metered space. On-street parking is free after 5pm. Handicapped parking is directly in front of Starbucks entrance. The main entrance to the building is to the right of Starbucks, but it will be locked. To get into the building, walk around the building to the left as you are facing Starbucks. You will cross Starbucks outdoor patio seating area and you will come to the double door entry into the building (this is the south building façade). These doors will be unlocked. Enter the lobby and ride the elevator (to your right) to the basement. Turn right as you exit the elevator and go through the first door on your right. This is the conference/meeting room. If you need further assistance, please contact Brian P. Murphy, IAS Vice-President on his cell phone 716-8124.

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Observatory Address

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

Observatory 's 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 Temporary Observatory Manager: Gary Schoppenhorst (317)297-1405. DON 'T WAIT UNTIL THE LAST MINUTE TO MAKE YOUR REQUEST OR YOU MAY NOT GET ACCESS.*

Designated Link Observatory Key Holders

Jeff Patterson: 882-8055

J. Philip May: 831-8387

Tom Borlik: 849-4113

Gary Schoppenhorst: 297-1405

Brian Murphy: 841-8511

Dave Williams: 769-7430

Gerald Venne 826-2680

Link Activities for October:

General Meeting – October 9

Hog Roast – October 9

Observing sessions - October 9 & 23*

New Moon Group – October 16*

Observer's Meeting – October 23

Link Training – October 23

New Astronomers – October 23

Bulletin Stats

Accessing the Bulletin

The current bulletin can be found on the website www.iasindy.org in the "Upcoming Events" section.

Bulletin - Bulletin deadline on the 20th of every month

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

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Please submit to
The Indiana Astronomical Society, Inc
Jeff Patterson, editor
1780 S. Morgantown Rd
Greenwood, IN 46143
Phone: 317-882-8055
JMPSR@Iquest.net

Membership information

Contact any IAS officer or the membership chairman
Larry Phillips
9413 South PR Black Hawk Hills Dr.
Edinburgh, In 46124
llpastro@lightbound.com

Link Observatory

Latitude: 39 degrees, 33 minutes North
Longitude: 86 degrees, 24 minutes west
Phone: 317 831-0668
IAS Internet address
<http://www.iasindy.org>

Executive Officers

President: Jeff Patterson 317 882-8055
Vice-President and Program Director Brian Murphy 317 841-8511
Secretary: Larry Phillips 317 729-2447
Treasurer: Dave Timmerman 317844-9431

Board of Directors

Gary Schoppenhorst (2006)
Gerald Venne (2006)
Thad Hatchett (2004)
Doug Brown (2004)

Bill Conner (2004)
Marion Hakes (2005)
John Molt (2005)

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October Calendar, 2004						
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
					1	2
3	4	5	6 Last Qtr Moon	7	8	9 General Meeting New Moon Group
10	11	12	13 New Moon	14 Board Meeting 7:00	15	16 New Moon Group
17	18	19	20 First Qtr Moon	21	22	23 NAG Meeting Observer's Mtg Link Training General Observing
24	25	26	27 Full Moon	28	29	30
31						

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Membership Application to the IAS

Benefits:

- Use of the Goethe Link Observatory
- Formal monthly programs with guest speakers
- Local and regional astronomical functions
- Discounted Astronomy publications
- New Moon observing activities
- Access to IAS member experts and problem solving
- The Bulletin monthly newsletter
- Free admission to the Holcomb planetarium
- Star party events and observing sessions

Please mark whether this is a new or renewal application

New

Renewal

Note: Magazine subscription renewals forms and payment must be submitted to the Treasurer in order to maintain publisher's club discount.

Name: _____

Address: _____

City: _____ State: _____ ZIP: _____

Telephone: () _____

E-Mail Address: _____

How do you want to receive the IAS monthly newsletter?

Downloadable from Website Hard Copy*

* Please note that hard copy costs the Society about \$1.50 per issue. Please consider this when selecting mode of receiving the newsletter.

Annual Regular Membership (\$20.00)	
Annual Student Membership (\$10.00)	
Astronomy Magazine Renewal (\$29.00)	
Sky and Telescope Magazine (\$33.00)	
Total Enclosed	

Make checks payable to : The Indiana Astronomical Society, Inc

Please complete Member Profile and include with the application

Mail Application to: Dave Timmerman, Treasurer
786 Woodview North Drive
Carmel, IN 46032

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Member Profile

Spouses Name: _____

Children's names and ages: _____

Education: _____

Occupation: _____

How many years associated with Astronomy? _____

Special astronomical interests or projects: _____

Equipment: _____

What can the Society do for you? _____

What can you do for the Society? _____

Note: Profile information is not a requirement for membership to the Society This information is entered into the IAS database and is not given nor sold for solicitation purposes. It does provide for a brief welcoming articles for new members and may be used by the society to match people with similar interests.