

# IKC Update



A QUARTERLY PUBLICATION OF THE INDIANA KARST CONSERVANCY  
MARCH 1998, NUMBER 48

# INDIANA KARST CONSERVANCY, INC.

PO Box 2401, Indianapolis, IN 46206-2401  
*Affiliated with the National Speleological Society.*



The Indiana Karst Conservancy is a non-profit organization dedicated to the conservation and preservation of caves and karst features in Indiana and other areas of the world. The Conservancy encourages research and promotes education related to karst and its proper, environmentally compatible use.

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Cover - Stream passage in Sullivan Cave near South-Y.  
 Photo by Bill Tozer, assisted by Erin and Bob Decker.

Editor Keith Dunlap.  
 Publishers Keith Dunlap & Bambi Erwin.



# ANNUAL BUSINESS MEETING REMINDER

**SATURDAY, MARCH 28th, 10:00 AM**

**GREENWOOD, INDIANA**

**GREENWOOD COMMUNITY CENTER**

The annual business meeting is for the explicit purpose of elections. It is also for members and other interested persons to have an open forum for talking about cave and karst conservation and related topics. Past, present, and future IKC projects are discussed to solicit comments and input from our members and the caving community as a whole. The meeting is informal, and everyone is encouraged to attend and participate.

**Preliminary Agenda Items:** Final nominations and elections; Brief recaps of last quarter's activities; Sullivan acquisition status; Sullivan management plan; IDNR caver permit policy; Other IDNR activities; HNF inventorying project; HNF/IKC committee status; Other HNF activities; Indiana Cave Symposium; Water sampling in Binkley Cave; and more....

Meeting directions: see page 25 (the inside back cover) for directions and map.

## EVENTS CALENDAR

- 28 MAR = IKC ANNUAL BUSINESS MEETING/ELECTION, Greenwood (see above)
- 04 APR = LOST RIVER TOUR, Orleans (see page 5)
- 11 APR = WYANDOTTE RESTORATION WORKDAY (see page 5)
- 18 APR = HNF CAVE INVENTORY WORKDAY (see page 5)
- 19 APR = INDIANA UNDER-EARTH DAY IX, Sullivan Cave (see page 7)
- 25 APR = INDIANA EARTH DAY, Indianapolis (see page 5)
- 25 APR = INDIANA CAVE SYMPOSIUM, Milltown (see page 12)
- 09 MAY = WESLEY CHAPEL GULF WORKDAY, Orleans (see page 6)
- 16 MAY = HNF COMMITTEE MEETING & CAVE INVENTORY WORKDAY (see page 5)
- 06 JUN = LOST RIVER TOUR, Orleans (see page 5)
- 14 JUN = INDIANA CAVE SURVEY MEETING, Capers (contact Dave Black)
- 20 JUN = HNF CAVE INVENTORY WORKDAY (see page 5)
- ?? JUN = HANCOCK PROPERTY WORKDAY, Bloomington (same day as meeting)
- ?? JUN = IKC QUARTERLY MEETING, Bloomington (date/location TBD)

For more information on the Indiana Karst Conservancy, visit our website at <http://www.caves.org/~joshua/ikc/> or write to our PO box. Membership to the IKC is open to anyone interested in cave and karst conservation. Annual dues are \$15. Please see inside back cover for the membership application form or to make a donation.

The *IKC Update*, distributed for free, is published quarterly for members and other interested parties. The purpose of this newsletter is to keep the membership and caving community informed of IKC activities and other news related to cave/karst conservation. Submission of original or reprinted articles for publication is encouraged.

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## RAMBLINGS FROM THE PRESIDENT...

Normally, this time of year, I use this space to encourage people to attend our annual business meeting. Please do that.

Okay, now I can talk about a caving trip I once had instead.

It started out innocently enough. A caver friend of mine was receiving a lot of inquiries about caving from coworkers, and decided to take some of them along. Not wanting to be the only experienced caver on the trip, he asked my wife and I to help them through Donnehue Cave the following Saturday. Several of the people were going to take their kids. Donnehue was the first "real" cave we'd ever visited, and remains my wife's favorite cave. We readily agreed.

We met the crew at the cave and got something of a surprise. With the exception of one guy, all the parents had backed out of the trip -- but they did send their kids. There were four of them, aged 5 to 10 or so. Three of them were parentless. We'd each driven nearly two hours to get there. We thought about this, decided "It's just Donnehue, after all," equipped everyone with gear as best we could, and went in anyway.

Things were going just fine. One little boy had a "Batman" helmet that restricted his vision, but he refused to wear anything else. We humored him...it was just Donnehue. The flowstone crawl went without incident, we walked down the canyon passage, boosted everyone up to the upper level, and showed them the formation room. Cool... neat-o. There are more pretties on down the Doghill connection passage...let's go see them, too.

We made our way through the breakdown and started down the passage, but decided we shouldn't take the younger kids through the mud bathtub. Cissy and I had brought along a twelve-year-old who wanted to see it, so we left the rest to wait briefly while we went down the passage a little further. Less than ten minutes later, my friend caught up to us, saying we'd better head back immediately. Something was wrong.

Apparently, the kids had gotten a little chilled sitting on the rocks rather than moving about, and had been complaining. To "entertain" them, the noncaver adult told them a scary story. They were devastated, lost all interest in caving, and two of them started to cry. It was a major undertaking just to get them moving again. I wasn't at all

sure that we weren't going to have to carry them out of there, one by one.

We made a beeline for the entrance. The closer we got, the worse the kids' attitudes became. "Batman" was certain we were lost and were all going to die. This was contagious. We had to carry one of the kids for awhile. Despite all assurances, they were absolutely convinced we were in a dire situation. If this was so safe, why weren't their parents with them? No...Mom and Dad had more sense than that. They'd been told for years not to go with strangers, and here we had taken them into this Godforsaken place. Why should they trust us now? It was a point I found difficult to refute.

The last 100 yards were the worst. By the time we got back to the flowstone crawl, "Batman" was sobbing uncontrollably and had to be physically prodded along. In their mental state, they didn't even recognize the culvert as the way out. You never saw a group so happy to see the light of day. And I mean *every one* of us.

Was this a horrible ordeal? Not really. We had no injuries or other serious problems to deal with. The only thing that was broken was a child's spirit.

Will these kids ever go caving again? Probably. Although they were scared to death for awhile, it's amazing how a youngster's perspective can do an about face in a few hours. By Monday, I'm sure it was just an exciting adventure to tell their friends.

Do I hate my friend for this? Of course not. He was surprised by the lack of parents as much any of us, and we'd all agreed to do the trip anyway. If I decide to go caving tomorrow, chances are he's the first one I'll call to join me.

So what's this all about? I learned that there is a minimum age below which one probably shouldn't take a child caving; especially without their parents. Since then, I've never taken anyone caving who wasn't at least a teenager, and knew me, and trusted me implicitly.

When the Sullivan Cave management plan is completed, it will require each caver under the age of twelve to have someone of the *immediate family* accompany them. I have absolutely no doubt this is the right thing to do.

- Bruce Bowman

## NEWS BRIEFS...

- ❑ With the relatively inactive winter just about over, the caving calender is full of cave conservation/educational projects. Check out the calender on page 3 (and related articles throughout this issue) and pick a few projects to participate in while having a little fun too.
- ❑ The annual restoration workday at Wyandotte Cave is scheduled for Saturday, April 11th. Caving volunteers in past years have tackled numerous projects throughout the cave including photo-documentation, non-historic signature removal, formation repair, mud-ball removal, trail reconstruction, rock moving, and debris clean-up. This year, the plans are to continue graffiti and mud removal, and cleanup of wood and garbage in the New Discovery area and the Mountain Room. Anyone with tools should bring them, especially two wheel dollies for moving dirt. If you would like to volunteer for this workday, you must call Roger Gleitz (812-738-2782) at the cave. There will be a limit of 20 volunteers.
- ❑ Bob Armstrong will once again be conducting his guided tours of the Lost River area, starting from the east at its head waters in Washington County, through Orange County to its disappearance near Orleans, and on to its rise near Orangeville. This year there will only be *three* tours: April 4, June 6, and September 19. The tour will leave the southeast corner of the square in Orleans at 8 AM sharp on each of those Saturdays. Reservations are not required. Tours are "go, especially if it rains". There will be some moderate hiking and sturdy footwear and long pants/sleeves are strongly recommended. The tour is free, but a small donation is suggested for the optional printed handouts. This is a must do tour, if you are interested in Indiana karst. For more information, contact Bob at (317) 926-4266.
- ❑ The IKC has sponsored a booth at Earth Day Indiana in downtown Indianapolis for several consecutive years, and 1998 is no exception. The event starts at 11 AM on Saturday, April 25th at the American Legion Mall (two blocks north of the War Memorial in Indianapolis). Featuring live bands, food, and a great number of organizations, this occasion is an excellent opportunity for networking with groups that have environment agendas similar to that of the IKC. Members are encouraged to come by, enjoy the show, and help man the booth for short periods. There's no need to contact anyone ahead of time -- just stop by. The more people who help, the less any individual will have to do. Contact Nick Noe or Bruce Bowman (see page 2 for phone numbers and e-mail addresses) for more information.
- ❑ The HNF/IKC inventorying teams have been plugging along all winter, systematically locating, inventorying, and documenting the various caves on the HNF. Field work is done on the third weekend of each month. Also, the HNF/IKC Karst Committee meets with the HNF Cave Specialist every-other month to cover HNF activities which affect caves. The inventorying is interesting, requiring you to slowdown and better appreciate even the simplest of caves. You also learn how much "fun" paperwork can be. For more information, contact Kriste Lindberg (see page 2 for phone/e-mail) for more information.
- ❑ As reported in the December *IKC Update*, IKC member Aaron Atz and a friend witnessed six visitors in Langdon's Cave who were allegedly involved in killing several bats and removing formations. After some confusion by authorities, extensive publicizing of the incident by Aaron, and several newspaper articles, one of the perpetrators, Robert Grant, was arrested on two counts on violating the Indiana Cave Resource Protection Act (see article reprint on page 12). The case is now in the hands of Harrison County Prosecutor Ron Simpson. Many letters (including one from the IKC) and phone calls have been placed to the prosecutors office to urge prosecution of this case. The IKC wishes to applaud Aaron for his dedication in getting action on this incident.
- ❑ A growing concern for the collection and sale of native amphibians, including the orange and black spotted cave salamander (*Eurycea lucifuga*), has been temporarily addressed. Through an emergency order issued December 3, 1997, the Indiana DNR prohibits the sale and transportation of many native amphibian and reptile species (also dangerous non-native species).





The order is expected to become permanent after a series of public hearings on the matter. Several cavers have reported an increasing number of cave salamanders showing up for sale at local "reptile shows" and pet stores. This emergency order should discourage the collection of salamanders from Indiana caves. For additional information or to report violations, contact Katie Smith of the IDNR (317-232-4080).

- ❑ More Indiana Department of Transportation road construction in karst areas are being planned. Requests for environmental karst work for the SR 135 upgrade (between Salem and Palmyra) has been advertised for bid. Also new economic information related to the new terrain I-69 proposal has been released by InDOT which further contradicts the original DE-IS finding on the justification for the Bloomington-to-Evansville highway.
- ❑ The long disputed and highly controversial environmental permits for the Caesars Riverboat Casino in Harrison County were finally issued by the Army Corps of Engineers. While there were numerous environmental problems with the project, the promise of potential economic development and gambling money for the State of Indiana eventually won out. The Corps issued the permits with a long laundry list of special conditions (34 in all), several related to protecting sinkholes and water quality in and around the proposed golf course (both during construction and when operational).
- ❑ The majority of the mothballed Jefferson Proving Ground is now under the management of the US Fish & Wildlife Service. The May 1997 agreement between the US Army and USFWS focuses on managing the 51,000 acre facility as a wildlife refuge. While the agreement initially spans just two years, it is expected to be extended indefinitely, as the clean-up and redevelopment of JPG for alternative uses proved to be too expensive. Thirty-two caves with fifty-two entrances have been documented in JPG with the potential of more.
- ❑ The Hoosier National Forest has implemented a trail use fee demonstration program for horse and mountain bike riders. It is hoped the revenue from this program will help to maintain the 220 miles of trail open for multi-use recreation. Currently many of the trails are in poor shape and there is a \$250,000 backlog. Furthermore there are \$120,000 of new

### **WESLEY CHAPEL GULF WORKDAY - MAY 9th**

Indiana cavers are asked to assist the Hoosier National Forest with a Take Pride In America workday at Wesley Chapel Gulf on Saturday, May 9th. The Gulf property was recently acquired by the HNF and there are a number of projects needing attention to return the property to a more natural state. Within the next few months, all of the buildings will be salvaged or demolished. The main project to be accomplished on May 9th will be the removal on numerous interior fences and some other general cleanup.

If you are unfamiliar with the with Wesley Chapel Gulf, it is probably the most prominent feature associated with the Lost River drainage basin. The eleven-acre depression (gulf) and related karst features are classic examples of a well developed karst system and well worth a visit. The HNF eventually hopes to develop interpretive trails and other educational materials related to property. The Gulf has already been designated a National Landmark.

Plan on meeting at the HNF office in Bedford by 9 AM to car pool, or go directly to the property west of Orleans. Please bring gloves (preferably leather), appropriate work shoes, lunch, and drinks. Hand tools for cutting wire and pulling posts would also be good. We will stop work about 4 PM and everyone is invited to the free TPIM cookout at Harden Ridge that evening. For further information or questions, contact Dave Hanson of the HNF at 812-277-3572, [DHanson/r9\\_hoosier@fs.fed.us](mailto:DHanson/r9_hoosier@fs.fed.us) or Keith Dunlap at 317-882-5420, [KDunlap@atd.gmeds.com](mailto:KDunlap@atd.gmeds.com). Hope we see you there.

trails being planned in the near future [*Editor's note: Why is the HNF building new trails when it can't maintain the trails it already has?*]. The demo program is estimated to generate a net revenue of \$130,000 the first year, based upon 7,000 annual tags (\$25) and 7,000 daily tag (\$3). No fee will be required for hikers, using the justification that horses and mountain bikes cause most of the damage on the trails.

- ❑ The final report on the 1997 Indiana bat (*Myotis sodalis*) hibernacula census (Brack and Dunlap) is now complete. The biennial study, funded by the Indiana DNR, Division of Fish & Wildlife, documents the bat count from twenty-two caves used during the winter by the bats. The preliminary numbers were published in the June 1997 *IKC Update*. The final numbers are slightly higher, with 183,780 endangered bats found, the largest population since systematic counts were started in 1981. Copies of the 68 page report are available by contacting Keith Dunlap (see page 2 for phone/e-mail).
- ❑ After a year in planning and production, the ninth in a series of IKC special reprints is complete and is being distributed with this newsletter. The reprint, *The Fauna of Mayfield's Cave* by Arthur Banta is described elsewhere (see page 13). Production of the reprint was accomplished by a team of volunteers including Jim Adams, Kim Adams, Keith Dunlap, Bambi Erwin, Allison Lemasters, Glenn Lemasters, Nick Noe, and Larry Reece. Partial funding for the reprint was contributed by Hank Huffman. Reprint #10 is targeted for December of 1998.
- ❑ Each March the IKC likes to recognize it's ten-year members. These include Dave Luckins, John Ahlberg, Kenney Carrigan, Larry Mullins, Tim Heppner, and the Mid-Hoosier Grotto. The membership roster now includes 41 members with ten or more years of serving the IKC.
- ❑ Nine new members have joined the IKC in the last quarter, including Jerry Lewis (326), Adam Craig (327), Bob White (328), Rich Whisler (329), Bruce Gahimer (330), Mark Deebel (331), Tom Willett (332), Jonathan Willett (333), and Bruce Silvers (334). Welcome to all and the IKC appreciates your support. The membership now stands at 162 (see the entire membership/ mailing list starting on page 22).

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## UNDER EARTH DAY IX - APRIL 19th

by Keith Dunlap

The Indiana Karst Conservancy will once again be sponsoring a cleanup at the Sullivan Cave property (Lawrence County) to celebrate Earth Day. This year's date is Sunday, April 19th, starting at 10 AM.

For cavers who are not familiar with Sullivan Cave, it is Indiana's third longest, with over nine miles of passage. The cave is in the process of being acquired by the IKC, but has previously seen its share of abuse over the last thirty years. In 1989, the Central Indiana Grotto installed a gate on the entrance at the request of the previous owner. Since that time, numerous restoration trips have been completed, improving the aesthetics of the cave significantly. However, there is still much to be done in the cave and your participation is needed.

New this year will be a number of above-

ground projects. These will include some minor surface trash removal, the demolition of an old outhouse, and two trail maintenance projects to control erosion. Please bring whatever hand tools you feel would help with these projects.

For those planning to work in the cave, please have the appropriate caving equipment including a helmet with chin strap, proper footwear, and adequate light sources. A liability waiver must also be signed, children under twelve must be accompanied by a parent, and trips may be limited by the number of leaders available.

Those needing more information or directions to the property may contact Keith Dunlap at 317-882-5420 / KDunlap@atd.gmeds.com or Bob Vandeventer 317-888-4501 / vandeventerb@tce.com.

## SULLIVAN CAVE ACQUISITION

by Bill Tozer

*[Editor's note: The following article was the material provided to the membership at the December 6th IKC meeting, summarizing the efforts of the ad hoc committee formed to study the purchase of Sullivan Cave.]*

### INTRODUCTORY COMMENTS

The Sullivan Cave Committee consisted of Bruce Bowman, Bob Decker, Keith Dunlap, Dave Haun, Larry Mullins, Tom Rea, Kathy Welling, and myself. We met three times to address the concerns raised by the IKC board at the September meeting, and to develop a set of management policies (both above and below ground) which would serve as the guideline for preparing the property's management plan.

The committee discussed all aspects from differing points of view and are in agreement with the report as presented.

### CONCERNS FROM LAST MEETING

Following are the concerns and questions raised at the September IKC Board meeting:

**How does Sullivan cave fit into the IKC philosophy of cave management?** All in attendance agreed that Sullivan definitely fits the IKC. Recreational caving is a legitimate use of caves. The cave is a great educational opportunity. There is great potential for organization building.

**Costs:** At this time, a reasonable best estimate is \$65,000 for the property plus improvements of \$3200 for a new drive to the parking area. As was reported at the September IKC quarterly meeting, the current house and drive will be sold to reduce the cost of the cave property. This would cut off road access to the current parking area. Annual costs are principally insurance and taxes. The insurance would cover liability on the property, the IKC Board, and volunteers on authorized work days. These are estimated at \$300 annually. Future costs could be an access road to the top of the ridge, which is currently a large pasture. It is the only large open flat area of the property.

**Fund raising:** Money for the Sullivan Cave project would be kept in a restricted account of the IKC. Any funds received prior to the purchase of the cave will be deposited in the account which will be returned to the donors if the cave is not purchased. There will be no active solicitation of funds until the IKC decides to purchase the cave. Certainly,

money and pledges will be accepted. This would give us confidence in our ability to raise the money. It is reasonable to raise enough additional money to set up an endowment fund to pay for the annual costs. This would protect the IKC treasury.

The committee feels that the IKC should not take on any additional purchases until the Sullivan cave property is fully funded.

A major concern raised at the IKC quarterly meeting was the impact on other IKC activities. The separate funding with an endowment to cover operating costs will protect the money aspect. The acquisition of Sullivan cave should stimulate interest in the IKC and our activities across the caving community.

The purchase of Sullivan cave should enhance rather than hindering our current activities.

The committee feels that if the IKC does decide to purchase Sullivan Cave, all Directors should support the project enthusiastically.

### UNDERGROUND MANAGEMENT

A single patron will control access to the cave. The Patron does not have to attend the trips, but will issue keys as appropriate.

The cave patron can authorize or deny ordinary cave trips. All other uses must be approved by the IKC Board.

The Cave Patron will file an annual report with the IKC Board. This report should include visitation, problems, successes, etc. at the March Directors meeting.

All trips are to have an approved leader. An approved leader is someone who is familiar with *and* practices conservation and safe caving as generally defined by the IKC. The approved leader must be familiar with the cave (have first hand knowledge of the cave). The cave patron will determine if the caving group leader meets the requirement of an approved leader.

There will be one approved leader per twelve cavers. There should be an adult of the immediate family for every child under the age of twelve.

There is no limit on the total number of cavers in the cave at this time. Experience may show that a maximum number should be established in the future. The committee really does not expect a problem in this area.

Concerns about the impact on the cave because of food, cooking, elimination, etc made most of the committee decide no in-cave



camping would be allowed. There would be no specific time limit on the length of trips, within the discretion of the cave patron.

No sections of the cave would be designated off limits unless it is determined that traffic is harming the cave passage or an approved IKC Board project requires limiting traffic. There will be no winter closing.

Other than normal trash removal, no cave restoration work should be done other than on IKC sponsored trips. The purpose is to keep all restoration practices within IKC approved methods.

#### ABOVE GROUND MANAGEMENT

There is a need to build a short lane to access the older lane leading to the clearing. All felt that the current clearing should be maintained. It could serve as a parking area except in the wet months. When the clearing is soft, parking would be limited to near the state road, perhaps on the new section of lane.

Property maintenance will be limited to the clearing area, the lane, around the cave entrance, and the trail from the state road. Some immediate erosion control is needed on the trail. A shed at the clearing area could be used as a changing area when the weather is bad. The ridge top clearing will be allowed to grow up.

The surface management philosophy developed as a low maintenance approach. We will do little to change the property. Collecting mushrooms, berries, and nuts would be permitted on the property (a philosophy borrowed from the IDNR). No other harvesting of plants or animals would be allowed. The land survey markers would be maintained at the key points to define the property lines for future reference. No Trespassing signs currently in place along the road would be left but not necessarily replaced. A sign stating ownership of the property with the IKC address would be constructed at the lane gate. The committee was neutral to the access of the property by others. The IKC would not promote nor discourage use of the property. A possible future consideration could be a nature/hiking trail on the property.

Camping at the clearing would be allowed by permit only (arranged through the cave patron) for small quiet groups. The camping permit would be issued only to IKC members, who would be responsible for their guests. There was a lot of discussion about campfires. Concern about the source of fire wood, fire rings, safety, etc. ended with a "no fire" policy. *[Editor's note: This was changed at the meeting to allow camp fires.]*

#### OTHER CONSIDERATIONS

Additionally, the Sullivan committee recognizes the extra responsibilities required in managing the property. Our committee believes that the IKC Board should create a permanent "Sullivan Committee" to help with management of the property. This committee would work with (or under) the patron to implement the policies set forth by the IKC Board.

Also for consideration is the purchase of a 3.11 acre property at the south end of the Sullivan property owned by Willie Owen's son. The section is land locked and probably could be purchased for a reasonable amount. If in the future the IKC wished to purchase adjacent land which has the Sullivan Cave Spring Entrance and Sullivan Annex Cave, then we would need to own the 3.11 acre tract. Keith Dunlap and Bob Vandeventer will inquire about the availability of the property. The committee feels that the IKC should purchase this property if the cost is reasonable.

#### RECOMMENDATIONS

The Sullivan Committee recommends that the IKC pursue the purchase of the Sullivan Cave Property.

If the Board decides to proceed with this project, the first step is to begin the fund raising process. The actual transfer of the property is yet to be negotiated and is complicated by the uncertainty of the sale of the house.

All money raised would be placed in a separate account within the IKC treasury, until the actual purchase. If for some reason the project collapsed, all donated money would be returned to the sources. Interest on these funds should be designated to the Sullivan Fund.

It is imperative that the management policies be in place to obtain the necessary financial support from the caving community. The policies are not set in stone. As owners of the cave, the IKC Board can change the policies as needed. However, a general philosophy needs to be defined in fairness to the people and organizations who will be asked to donate money and time to this project.

The committee asks that the IKC Board endorse the presented management policies in principle. The actual management plan will reflect these principles and be forth coming for final approval.

## SULLIVAN CAVE ACQUISITION - QUESTIONS & ANSWERS

by Keith Dunlap

There have been a number of questions generated from the IKC's plans to acquire the property containing Sullivan Cave. This article will address some of these questions. Please feel free to direct other questions, comments, and concerns to Bill Tozer, 765-778-3259 or WTozer@aol.com.

**Q:** When will the IKC take ownership of the property?

**A:** The timing of the transfer will depend on several events. The interim owners have indicated they wish to complete the transfer before the end of September, 1998. However, first and foremost the house and corner lot must be sold. Also the IKC must raise a significant portion of the purchase price by then.

**Q:** If the IKC does not have all the money by the transfer date, how will they finance the rest?

**A:** While the IKC could obtain a conventional bank mortgage, one of our members has offered to carry the loan at a reduced interest rate and a more flexible repayment schedule. However, it is in the best interest of the IKC to retire the loan as quickly as possible to minimize our interest expenses.

**Q:** Why is the house involved with property?

**A:** When the previous owners decided to sell the property, they wanted to sell all of it and would not split the house from the rest of the property, so it had to be purchased together. The interim owners are taking on the responsibility of re-selling the house and sub-dividing the lot prior to the IKC taking possession.

**Q:** How much money will the interim owners make on the overall deal?

**A:** The interim owners have agreed to re-sell the remaining property to the IKC at their net cost (original purchase price, minus house revenue, plus transaction and interim maintenance costs), *excluding* their cost of capital. Thus, they will be losing a respectable amount on the deal.

**Q:** Rather than make a one-time donation, how does a pledge work?

**A:** A pledge is a non-binding financial commitment to donate in the future. It allows the donor to spread the donations over several months or more, to better match the supporter's finances, yet allows the IKC to better assess its fund raising status. Pledges are recorded and tracked as the donor makes installments. The donor will be recognized for the total amount given at the end of the fund-raising drive.

**Q:** If I've already donated, but want to move up a level on the donor's list, what do I need to do?

**A:** The donor's list represents the cumulative amount given. Additional donations by the same person or organization will be combined to determine the proper level to list the donor. You may contact Keith Dunlap if you wish to find out the amount of your previous donation(s).

**Q:** Will a donation assure me access to the cave?

**A:** While we would like everyone to donate, access to the cave is strictly determined by the access policies. Qualified cavers/ groups will have access independent of donations made.

**Q:** Why does the access policy require an "approved" leader for each group?

**A:** Over the last thirteen years, the IKC has learned a lot about managing access to caves. While we would like to think we have done a good job on the whole, we have noted a number

of problems, most related to lack of experienced leadership. In order to assure that inexperienced cavers are exposed to proper, conservation-minded caving techniques, we have decided to require each group to have at least one "approved" leader (larger groups will require more). The criteria to be designated an "approved" leader will be somewhat subjective, but requires the leader to be familiar with the cave and have a history of safe and competent caving. The patron will make this assessment on a case-by-case basis.

**Q:** What will be the access policy for Scout groups?

**A:** Generally the same as for all other groups -- foremost they must have an "approved" leader who will obviously need to be an experienced caver. Furthermore, groups such as the Boy Scouts will be expected to comply with any internal rules or regulations governing such activities (as an example, BSA has published guidelines covering wild caving which they would need to follow).

**Q:** What is the interim access policy?

**A:** Until the cave is transferred to the IKC, visitation is being limited for several reasons. In general, pure recreational trips are being discouraged. Scientific, photo trips, restoration, and other trips with a purpose are being allowed.

**Q:** I made a donation -- where's my T-shirt?

**A:** Promotional incentives (T-shirts, hats, honorary deeds, etc) are a good way to generate donations and interest in the fund-raising, but they also incur expenses that are funded out of the donations. The IKC considered various incentives but decided to pass, hoping donors would want 100% of their money to go towards the purchase of the cave. All donors will be recognized publicly through the *IKC Update*, on the IKC website, and eventually on a permanent display on the property.

**Q:** What happens if the IKC raises too much money?

**A:** Not likely, but if it were to happen, the extra money would be kept in a restricted fund for future acquisition projects, to cover future Sullivan expenditures, and/or establish a dedicated endowment to provide perpetual funds for the property's taxes and insurance.

**Q:** What would have happened to the Sullivan property if the IKC had not bought it?

**A:** The interim owners purchased the property to keep it off the open market when the original owners indicated they were going to sell. It was acquired with the specific intent of re-selling it to the IKC and provide them with enough time to finance the purchase. However, it was understood up-front that the IKC was under no obligation to follow through. If the IKC had decided against the purchase, the cave and property most likely would have been re-sold on the open market.

#### DONATION LIST

##### \$5,000 or more

Central Indiana Grotto

##### \$1,000 to \$4,999

Dick Blenz

Bruce Bowman

Keith Dunlap

Evansville Metro Grotto

Larry Reece

Tom Sollman

Bill Tozer

Dick & Sue Vernier

##### \$250 to \$999

George Brutchan

The Cleveland Grotto

Mark Deebel

Harrison-Crawford Grotto

1997 Fall MVOR Committee

Bob & Phyllis Sergesketter

Southeastern Cave Conservancy

##### \$100 to \$249

Rane Curl

Bruce & Deb Devore

Scott Fee

Joe Gasperi

Glenn Kotnik

Mid-Hoosier Grotto

Northern Indiana Grotto

Ernie Payne

Robert Roundy

St Joseph Valley Grotto

Bruce Trotter

##### \$50 to \$99

Ted Bice

The Boehler Family

Martin Church

Dayton Underground Grotto

MSM Spelunker's Club

Walter Pirie

Tom Rea

Bob Vandeventer

##### \$5 to \$49

Danielle Burden

Jeff Cobb

Jeff Cody

Tony Cunningham

Bruce Foyer

Frederick Grotto

John Koch

Our Lady of Consolation

Theresa Peterson

Kevin Rasmus

Rusty Riley

Tri-State Grotto

Western Indiana Grotto

Rich Whisler

James Wright

##### Pledges

Bloomington Indiana Grotto

Danielle Burden

Chris Carpenter

Tony Cunningham

Larry Mullins

Tom Rea

Bob Sergesketter

Bruce Trotter

Bob Vandeventer

Kathy Welling

Dean Wiseman

3/15/98 Total: \$26,451.50

## 1998 INDIANA CAVE SYMPOSIUM - APRIL 25th

by Dave Black

The sixth annual Indiana Cave Symposium will be held on Saturday, April 25 at the Cave Country Canoe Rental's Group Meeting Hall in Milltown. A pitch-in hot dog roast will be held at 5:30 PM local time (4:30 Indy time) and talks will begin at 7:00 PM local time (6:00 Indy time). Please bring a cover dish or dessert to share for the cookout. The hot dogs and fixings will be provided. Camping will be available at the adjacent campground, courtesy of Cave Country Canoes. This year the event is once again being sponsored by the Indiana Karst Conservancy, the Indiana Cave Survey, and Marengo Cave.

The purpose of the event is to get all the active caving groups together to discuss their projects, and for cavers to meet with cave researchers. Presently, speakers for the symposium are being solicited from caving groups within Indiana and neighboring states. The talks should be about what the caving groups have been doing. The emphasis will be on exploration, surveying, and conservation projects. It is preferred that the talks be on activities within Indiana, but if the caving group's most significant project is outside the state, exceptions will be made. The talks should be from 15 to 30 minutes in length.

There will be a slide projector and an overhead projector available. This will be an excellent way of showing off your grotto's recent projects.

At this time there are six scheduled speakers, with several other potential presentations unconfirmed. David Black, President of the Indiana Cave Survey will begin the symposium with a welcoming and a brief explanation of the goals of the ICS. Ray Sheldon and Bruce Trotter will be giving a talk on their inventorying and surveying of the caves in Crane Naval Depot. Jerry Lewis will give a talk on his various cave biological inventorying throughout the state. Jeff Cummings will be talking about the new Indiana DNR's cave policy. Bill Tozer will bring everyone up to date on the acquisition of Sullivan Cave by the IKC. Mark Deebel will give a status report of the SJVG's re-survey of the caves associated with Wesley Chapel Gulf.

Additional speakers are needed. Please talk to the active members of your caving group about a presentation. It is hoped that every grotto that is active in the state will give a presentation. For more information, or to schedule a talk, contact Dave Black at (812) 951-3886 or e-mail dblack@venus.net.

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## Marengo man arrested for cave vandalism

by Daniel Harris  
Staff Writer

The theft of cave formations and disturbing a bat during the early hours of Nov 23 put Robert Grant, 20, Marengo in jail Friday after Indiana Conservation Officers found there was enough evidence to issue a warrant.

At 12:15 AM on Sunday, Nov. 23, Aaron Atz, 22, of Leavenworth and a friend were leaving Langdon's Cave in the Harrison-Crawford/Wyandotte Complex when they came across six people who were related to one another. Four of them were juveniles and two were adults.

The juveniles were around 10, 12, 16 and 17 years old, Atz said.

Atz who works night security at the complex during the summer, said the boy who was around 17 years old bragged to him that people in his group had captured and stomped on some bats.

Langdon's Cave contains Little Brown bats and Eastern Pipistrelles said Jeff Cummings, the naturalist for the Harrison-Crawford/Wyandotte Complex.

Atz said he noticed one of the men had a jacket hanging on the wall of the cave. After observing the jacket pocket move, Atz unzipped the pocket and a bat flew out. He also observed a bat he believed had been struck and was lying on a rock convulsing. Atz and his friend left the cave and Atz called police.

Harrison County Police Officers Don Mays and Marty McClanahan and Crawford County Conservation Officer Terry Allen responded to the call. McClanahan said he and Mays left the matter in Allen's hands because the cave is in the Indiana Dept of Natural Resources' jurisdiction.

Atz said he showed Allen a bat that had been wrapped in a mud ball and, one boy said, stomped on. Allen made Grant empty his pocket of the rock formations and got the names of all six family members and let them go for the time being.

The following day three dead bats were found in the cave but Allen said there is no way of proving who killed them ☹ ☹ ☹

## REPRINT #9 - THE FAUNA OF MAYFIELD'S CAVE

by Hank Huffman

IKC Special Publication No. 9 is a reprint of *The Fauna of Mayfield's Cave* by Arthur M. Banta, published in 1907 by the Carnegie Institution. Beginning in 1903 Arthur Banta conducted a thirty month study of Mayfield's Cave, often visiting the cave on a weekly basis and eventually compiling a list of 110 animal species he identified from this cavern. Of this number Banta considered ten species to be exclusively cave dwellers (troglodites) and another twenty-three as permanent residents. Very, very, few caves (or any place for that matter) have had such an early and thorough baseline study done to document their natural state.

The first section of the publication consists of a description of the physical aspects of the cave such as air flow and temperature variations. The main body of the work, some sixty-five pages, is a species by species account of every critter Banta found over the three year study period. The publication ends with a discussion of the biology (ecology) of Mayfield's Cave in general, the evolutionary origins of cave dwelling species, and a summary of the studies conclusions. Most cavers will likely find the first and last parts of this publication most to their liking, but even the more detailed accounts of individual animals can be illuminating if one does not let the scientific latin scare them away.

The table at the back of the publication lists not only all the species documented by Banta and his students occurring at Mayfield's, but also all organisms recorded from

all Indiana caves as known at this time. It must be kept in mind that this study was conducted at a time that the study of cave biology was still in its infancy. Many of the scientific names have changed considerably, and many new species have subsequently been described from Indiana caverns since this publication. For instance the trogloditic cave beetle Anopthalmus tenuis is now known as Pseudanopthalmus mayfieldensis, and some eighteen or so species of this beetle genus are now known from Indiana caves instead of the mere two that Banta lists in 1907. Regardless, this pioneering work is still considered a classic by students of cave biology and remains among the more detailed faunal descriptions of a cave undertaken.

One's appreciation for this work is further increased when one imagines for a moment traveling the four and one-half mile trip by horse and buggy from the campus of Indiana University once a week and caving 1900's style.

Although Mayfield's Cave is rather so-so as Indiana caves go, because of this earlier study it is considered nationally significant as an ecological bench mark. Visitation to Mayfield's Cave has been discouraged and/or prohibited by the owners over the decades; the cave has therefore changed comparatively little since Banta's time. In keeping with our modern age however, this cave system is now increasingly threatened from encroaching development on the Bloomington west side.

because they weren't found the previous night.

Harrison County Conservation Officer Kim Wolsiefer assisted Allen with the investigation.

The warrant for Grant's arrest was issued Thursday and served the next day. Grant spent the weekend in the Harrison County Jail and was released Monday morning on a property bond which required 10 percent of the bond to be posted in cash.

Grant was arrested on two counts: removing cave formations, and

harassing and killing a cave animal. Both are Class A misdemeanors and each count carries a maximum penalty of one year in jail and a \$5,000 fine.

Grant was the only person arrested because he was the only one who admitted to anything -- stomping on the bat -- Wolsiefer said.

Bats hibernate in caves in the winter and come out in the summer. They are not found in each cave in the complex, only in the ones with dry enough conditions,

such as Langdon's or Wyandotte. Bats don't bother people either.

Wolsiefer also said this is the first cave vandalism case he's investigated that resulted in an arrest. Allen said he was fortunate to have been able to work this case because a lot of vandalism occurs and it's difficult to catch the vandals.

[Reprinted from the December 10, 1997 issue of the Corydon Democrat.]

# IDNR CAVES AND KARST RESOURCE MANAGEMENT POLICY AND GUIDELINES FOR DNR PROPERTIES

introduction by Keith Dunlap

The following article includes two Indiana Department of Natural Resources documents which Indiana cavers will need to become familiar with. These documents cover the management policies of caves and access policies for cavers who plan to visit any caves on **state-owned** properties. While none of us like added complications or new restrictions while going caving, these policies are a natural progression for the IDNR, reacting to recent problems and concerns over the Department's inability to protect the caves resources they are chartered to manage. Furthermore, we as cavers, can now hold the DNR land managers responsible for properly, and consistently protecting the caves on State lands caves. Note that the policy and guidelines stress cooperation between IDNR land managers and cavers/caving organizations.

It will take several years to see if these cave and caver policies are successful in protecting the caves, or just an inconvenience for their primary users (organized cavers). As you read through the Policy and Management Guidelines, keep an open mind. If the cavers are cooperative with the State, the State will be more open to addressing whatever long term problems may arise. The Management Policy was approved by the Natural Resource Commission in November and became effective January 1st. However, the implementation Guidelines, including the details of how the permit system will work, are still being finalized. Direct any questions, comments, or concerns to the Task Force chairman, Jeff Cummings at 812-738-8234 or hwcnc@theremc.com. Also note that Tom Rea was representing the IKC and the caving community during the drafting of these documents and you may contact/ comment to him also.

## CAVE & KARST RESOURCE MANAGEMENT POLICY

### I - Policy Purpose:

Increasing recreational use, public safety, and increased threats and pressures placed on all karst resources on IDNR (Indiana Department of Natural Resources) properties prompted the creation of uniform Department policy to address the management

of caves and karst resources located on IDNR properties.

This policy was written to address the following issues of karst management identified by a broad based task force of users and managers as primary concerns:

- A) Resource Identification
- B) Resource Protection
- C) Karst/Cave Research
- D) Recreational user Management
- E) Education
- F) Karst/Cave Administration
- G) Safety and Rescue

### II - Policy Development:

This policy was developed by the Cave Task Force made up of 15 individuals from within and outside the Department of Natural Resources, who met over an 18 month period. The Caves Task Force was created to develop a management policy for the IDNR that will protect and enhance cave and karst resources (including geological, historical, archaeological, biological, recreational, and other values) on IDNR properties for public benefit while allowing recreational use of caves. This group included representatives from the following agencies/groups: the Indiana State Police, Indiana Department of Natural Resources, Divisions of State Parks and Reservoirs, Nature Preserves, Fish and Wildlife, Forestry, Historic Preservation and Law Enforcement; the Harrison County Hospital, the Indiana Karst Conservancy, the Bloomington Grotto, and the U.S. Forest Service. In addition to this policy, the Caves Task Force will continue to develop a set of Karst Management Guidelines as a decision making tool to assist IDNR managers.

### III - Definitions:

**Wild Cave:** The term "wild cave" means any naturally occurring void, cavity, recess, or system of interconnected passages which occur beneath the surface of the earth or within a cliff or ledge, whether or not it has an identifiable entrance. To be considered a "wild cave" the cave shall not have been significantly altered or enhanced from its natural state for commercial viewing. Such term shall include any natural pit, sinkhole, or other feature of a cave.

**Show Cave:** The term "show cave" means any naturally occurring void, cavity, recess, or system of interconnected passages which occur beneath the surface of the earth or within a cliff or ledge that has been altered from its natural state for commercial viewing.



**Karst:** Terrain, generally underlain by limestone, in which the topography is chiefly formed by the dissolving of rock, and is commonly characterized by closed depressions, underground drainage, and caves.

**Caving:** The exploration of undeveloped or wild caves.

#### IV - Policy Statements:

**A) Resource Identification:** The IDNR will develop a strategy to survey and identify significant karst features on its properties. The IDNR will limit and/or restrict access to information regarding the locations of wild caves and sensitive features in order to protect these resources.

#### B) Resource Protection:

1) **Cave Entrance Alteration:** The IDNR shall attempt to keep wild cave entrances in the natural state on IDNR properties. The use of explosives or digging to modify entrances shall be prohibited except for emergencies such as cave rescues or critical management situations, and must have the approval of the Department Director or his/her designee.

2) **Posting/Signing:** The IDNR will not attract attention to the location of wild cave entrances by posting signs or other markers, except for certain caves defined as show caves or for specific management purposes. Signs prohibiting entry due to sensitive resources will be visible for limited distances outside the entrances to caves.

3) **Cave Gating:** Caves on IDNR properties will not be gated except to protect sensitive resources or if there has been a history of injury or deaths resulting from open access to a particular cave. The decision to gate a cave will be made by means of an interdisciplinary team assessment to prevent unwarranted or improperly designed gates.

4) **Erosion/Pollution Control:** Activities on IDNR properties that cause direct subsurface impacts to cave passages and biota are prohibited without written approval of the Natural Resources Commission. Such activities include, but are not limited to drilling, excavation, and mining. Surface and subsurface activities that may impact subsurface karst resources will be appropriately designed and conducted to minimize impacts to karst systems.

5) **Land Acquisition:** The IDNR will attempt to acquire private property from willing sellers when such property will enhance the protection of karst resources on existing IDNR property.

6) **Protective Status Designation:** The IDNR will evaluate and consider dedicating areas possessing exceptional caves as State Nature Preserves, or with other protective status, to protect resources of statewide significance.

7) **Destruction of Cave Resources:** The destruction, removal, mutilation, or defacing of any cave resource is prohibited under 310 IAC 519(d) without authorization by written permit from the IDNR.

**C) Karst/Cave Research:** Individuals conducting scientific research on IDNR property must obtain all applicable permits. These permits do not supersede any federal permits needed to gather data on federally protected species. A research permit from the administering division will serve as a caving permit for the researchers.

#### D) Recreation/User Management:

1) Recreational caving is recognized as a legitimate use of cave resources on IDNR owned or leased lands.

2) Entrance into wild caves on IDNR properties is only by annual/daily permit. This does not apply to guided cave tours or special events. Fees for permits shall be prescribed or approved by the Natural Resources Commission.

3) Access to caves containing sensitive or especially significant resources, or significant safety hazards, may be regulated at the discretion of the Department Director or his/her designee.

4) Camping or overnight stays in caves on IDNR properties are prohibited without prior written approval of the Property Manager. Such approval is ordinarily issued for educational or scientific purposes only.

5) All persons entering caves on IDNR properties shall comply/observe the provisions of the Indiana State Cave Law (IC 35-43-1-3).

**E) Education:** It shall be the policy of the IDNR to provide all permittees and the general public with information on the impacts of the recreational use, cave ethics, safety requirements, and general karst/cave resource information when and where practical.

#### F) Karst/Cave Administration:

1) **Special Event Permit Requirements:** Organized caving events will be permitted on IDNR properties at the discretion of the IDNR using the IDNR Special Event Permit system. Events may be limited in size so as not to adversely affect the karst/cave resource of concern. The event size limitation will be at the discretion of the Property Manager.

2) **Concessions:** Any groups or firms that engage in business on property owned, leased or licensed to the IDNR, or uses such property as the base for, or as part of any, not-for-profit or for-profit business, must have a written contract or vendor permit from the IDNR (310 IAC 519).

3) **Volunteers and donations:** It is the policy of the IDNR to actively pursue cooperative programs with individuals or groups wishing to volunteer services or donate funds or materials to improve and protect the cave and karst resources on IDNR properties.

#### G) Safety and Rescue:

1) The IDNR, through the Property Manager or his/her appointee, will be the person in charge (Incident Commander) for all cave related rescues on IDNR owned/ leased lands.

2) The IDNR Division of Law Enforcement through an appointed officer, will investigate each rescue to determine the cause of the accident or rescue.

Individuals rescued may be charged for the cost of the materials, services, and labor used in a rescue under either of the following circumstances: the individual is found to be in violation of Indiana Code/IDNR Property Regulation or the Individual caused or sustained injury through negligent behavior. The IDNR is not responsible for the incurred cost of other emergency service providers.

## MANAGEMENT GUIDELINES

(Version 5.1, January 1998)

### I - Guidelines Overview

**A) Existing Conditions:** Most caves and karst features found on IDNR properties are managed using a variety of methods, often based on the individual property manager or Division. At present, there are few specific management plans written for caves or karst features on IDNR properties.

**B) Cave Numbers:** There is often little or no definitive information on the names, numbers, and exact locations of caves on IDNR properties. We have limited information on size, topography, drainage, or degree of difficulty of most caves on IDNR lands.

**C) Threats to Karst and Cave Features:** The Caves Task Force has identified eight common threats to karst and cave features on IDNR properties:

- gross destruction and alteration
- future commercialization
- vandalism
- unintentional impacts by cavers
- alterations necessitated by rescues
- water quality degradation
- degradation of surface area adjacent to entrances
- looting of cultural sites

### II - Karst/Cave Management Goals

The Caves Task Force has identified four management goals of karst/cave management on IDNR properties:

A) Protection and preservation of caves and associated drainage areas should be a priority.

B) Caves should be managed to protect their natural state, and to perpetuate their natural ecological processes, including the interactions of cave and surface biological communities.

C) Maintain and enhance the water quality of cave and karst spring systems and prevent subsurface disturbances which may affect water quality.

**III - Management Action Plan:** The Caves Task Force has identified the following action items as the necessary steps to achieving Management Goals:

**A) Resource Identification:** In order to establish a process to survey and identify cave and karst features on its properties, the IDNR should:

1) Work with local grottoes to develop MOUs consistent with the Indiana Cave Survey (ICS) and the Indiana Karst Conservancy (IKC) in order to develop a survey of the karst and cave features of each property.

2) Develop an MOU with the ICS and the IKC to establish guidelines for the use and ownership of cave data on IDNR properties.

3) Treat karst/cave data as sensitive information.

4) Survey information should include the cave's name, location, a brief description, cave map, topographic overlay, drainage/ recharge area, significant features/values, and special hazards.

5) Develop an MOU with other appropriate [entities] to evaluate and address environmental impacts.

**B) Resource Protection:** The Caves Task Force has made these recommendations to ensure the protection of karst and cave resources on IDNR properties:

1) Access activities:

a) The IDNR will not promote easy access to wild caves to the general public.

b) Each property should review the practicality of relocating and removing existing trails away from cave proximities as needed.

2) Gating of caves: The team assessing the gating of a cave on a property should include the Property Manager, a representative from the Divisions of: Historic Preservation, Fish & Wildlife, and from that property's central office in charge of resource management.

3) Management Activities:

a) The IDNR should pursue research of caves and karst features on IDNR lands to determine the faunal composition of these caves and identify specific needs to protect these caves.

b) The IDNR should conduct cultural resource inventories of caves to identify cultural sites that may be located within a IDNR cave.

c) Each Division and property needs to develop guidelines for specific caves after the survey have been completed. These management guidelines should consider:

- archaeological surveys
- access
- visitation impacts
- vandalism
- gating
- surface buffers
- rescue routes/special rescue problems
- long term management needs
- construction and management activities that may affect the recharge areas

d) Each Division and property with karst features should contact and develop a partnership with the local organized caving community to assist in the recommended studies.

**C) Karst/Cave Research:** The Caves Task Force recommends that the following action items are in place to prevent damage to the resource and encourage research that would benefit the cave resources:

- 1) There must be notification of "Intent to Study" to the proper Division and Property Manager.
- 2) The researcher must have the necessary collecting permit from the Division of Fish & Wildlife.
- 3) The researcher must have the necessary permit for listed species from the US Fish & Wildlife Service.
- 4) Additional permits may need to be issued from Nature Preserves and Historic Preservation if the study area falls in a Nature Preserve or archaeological site.
- 5) Final results/documentation must be distributed to the proper division and property. The researcher is also responsible for sharing their results with the other affected divisions.

**D) Recreation User Management:** The Caves Task Force has identified and recommends the following guidelines for managing the public using IDNR cave systems for recreational pursuits:

1) Cavers using noncommercial caves on IDNR properties will be required to carry an annual or daily cave permit. Details of the cave permit are as follows:

a) Each caver will receive an IDNR Daily Caving Permit at the office of the IDNR property where that individual is going to go caving (see attachment #1).

b) Each caver will fill out and deposit the lower part of the daily caving permit in the caver registration box located at the office of each property (see attachment #2).

c) After three successful cave trips without report of damage or vandalism to an IDNR cave, the caver may apply for an annual cave permit.

d) Cavers with an annual permit must also fill out a cave registration form at the Caver Registration box for each cave trip, to promote safety and better measure user levels.

e) Fees for the daily permit will be established by the Natural Resource Commission. There is no fee for the Annual Permit.

2) Each Division and property will set acceptable visitation levels for particular caves that are commonly used by the caving public. Emphasis

should be on those caves that have sensitive resources or already receive high levels of visitors.

3) Each caver using noncommercial show caves on IDNR properties must carry the minimum acceptable equipment for that particular cave.

**E) Education:** The Caves Task Force recommends that the following steps be followed in regard to education and karst management:

1) Personnel Training:

a) Properties with caves and karst features should develop partnerships with local grottoes to become aware of training opportunities available through the National Cave Rescue Commission (NCRC) and the National Speleological Society (NSS).

b) The Task Force highly recommends that the IDNR provide its personnel with the appropriate training on karst features and caves at the local, regional and national levels.

c) The IDNR provide its personnel with membership in national organizations concerned with cave and karst conservation.

2) Public Education:

a) Properties with karst features should develop partnerships with local grottoes to offer public workshops on recreational caving karst conservation to the public.

b) Properties with karst features should develop a list of publications on cave conservation and caving safety.

c) The task force highly recommends that properties with karst features develop some type of interpretive display for the public at any local Nature Center, Visitor Center, or Natural History Museum.

**F) Karst/Cave Administration:** The Cave Task Force recommends the following guidelines for administration of karst features on IDNR properties:

1) Fifteen visitors is generally considered the maximum limit for a caving party into a wild cave. Refer to the management guide for that particular cave to determine recreational carrying capacity.

2) Each member of the caving party must have a daily or annual caving permit.

**G) Safety and Rescue:** The Caves Task Force has identified and recommends the following procedures be implemented for rescues in caves on IDNR properties:

1) Each Division and property establish a rescue procedure in the event of a cave rescue on caves on IDNR properties (see attachment #3).

*[Editors note: attachments were not available]*

**SULLIVAN CAVE NEEDS YOUR DONATION**

# INDIANA KARST CONSERVANCY TREASURY REPORT

## Income/Expense Statement From October 1, 1997 to December 31, 1997

### INCOME:

Dues Apportionment and Residuals	569.45	
Donations	110.00	
Hat & Shirt sales	22.00	
Interest	83.39	
Restricted fund transfers	<u>237.00</u>	
		\$1,021.84

### EXPENSES:

IKC Update (printing, production, mailing)	112.31	
Reprint #9 (Banta)	224.00	
Membership (postage, meeting notices, etc)	81.59	
Conservation/Management/Education	122.19	
Misc (PO Box rental, banking charges, etc)	103.99	
DNR bat detector	<u>236.00</u>	
		(\$880.08)

NET OPERATING EXCESS (DEFICIT) THIS PERIOD: \$141.76

## Balance Sheet December 31, 1997

### ASSETS:

Cash in Savings Account	869.27	
Cash in Savings Account	<u>13883.94</u>	
		<u>\$14,753.21</u>

### LIABILITIES & OPERATING EXCESS:

Hancock Property Maintenance Fund	182.79
Indiana DNR Nongame Fund	134.00
Sullivan Aquisition Fund	6083.42
Deferred Dues Fund: 152 members - 1997	570.00
14 members - 1998	210.00
1 members - 1999	15.00

Previous Operating Excess	7416.24
Net Excess (Deficit) This Period	<u>141.76</u>
Current Operating Excess	<u>7558.00</u>

Total Liabilities & Operating Excess \$14,753.21

# IKC QUARTERLY MEETING MINUTES

Saturday, December 6, 1997

Bloomington, Indiana

## BOARD MEMBERS PRESENT:

James Adams  
Bruce Bowman  
Jeff Cody (proxy for Larry Bundy)  
Bruce DeVore  
Keith Dunlap  
Dave Haun  
Hank Huffman (proxy for Eric Schmidt)  
Kriste Lindberg  
Steve Lockwood (proxy for Larry Mullins)  
Nick Noe  
Tom Rea  
Robert Sergesketter  
Clyde Simerman  
Tom Sollman  
Bill Tozer

## BOARD MEMBERS ABSENT:

none

The December Quarterly Meeting was called to order at 7:10 PM at the Geology Building on the IU campus in Bloomington, Indiana. President Bruce Bowman presiding. Keith Dunlap recorded minutes of the meeting. Introductions were made and the minutes of the September meeting were approved as published in the December *IKC Update* with one correction: the vote on the motion to pursue purchase of the Sullivan Cave property was 9 in favor, 0 against with 3 abstentions (Bowman, Dunlap, and Schmidt) instead of 9-3-0 as recorded.

Treasurer Dunlap reported a total balance of \$13,463.92. Of this amount \$8,428.64 is held in the general or other restricted funds and \$5,035.28 is held in the Sullivan property fund.

Bill Tozer led the discussion on a possible Sullivan Cave purchase. [Editor's note: The handout for this discussion is reprinted in this issue, starting on page 8] Tozer gave some background information and then introduced Tom Rea, who recapped the Sullivan Cave Committees position as to how the possible acquisition of Sullivan Cave would fit with the overall philosophy of the IKC.

At 7:31 PM Secretary James Adams arrived and continued recording.

Bob Vandeventer, with additional input from Dave Haun, summarized aspects of the underground portion of the property.

The above ground management proposal was summarized by Dunlap. One major consideration was that the proposed management plan did not permit

the building of campfires. After some discussion, the membership was in favor of allowing campfires. A no-discharge of firearms policy was also favored by the group.

Additional considerations were discussed by Kathy Welling.

Tozer wrapped up discussion. Concerning the funds, Dunlap noted that \$5,035 has been received. This includes \$1,000 from the Evansville Metropolitan Grotto. Others have indicated that they would also be willing to contribute. Bill Baus noted that the BIG will make a pledge but could not indicate an amount. Adams announced that the Central Indiana Grotto has pledged a \$5,000 donation.

Rea moved that the IKC make a commitment to purchase the Sullivan Cave property. Haun seconded. Motion passed, 14-0-1 with Dunlap abstaining. Dunlap explained that the current owners would retain ownership until the house and 2.5 acres are sold.

Tozer moved to accept, in principle, the proposed management plan. Haun seconded. Motion passed, 15-0.

Bowman noted that the IKC has over \$10,000 in the general fund and asked if the IKC should earmark any of this amount for the Sullivan property fund. There were two views, one that the IKC make a pledge to the fund and the second that the IKC should attempt to raise funds for the purchase first and then draw on the general fund, if necessary. No motion and Bowman tabled discussion.

There was discussion and general agreement that the Treasurer should direct interest from the Sullivan property back to the fund. Also, that "unspecified" donations continue to be allocated to the general fund.

Tozer will assemble the first draft of the Sullivan property management plan.

Bowman discussed recent incidents at Langdons Cave. There have been a couple of rescues in the cave. There was a murder in Louisville and the body was stashed in the cave. Most recently, some visitors were found to have killed bats in the cave and broken formations. The IKC has written a letter to the prosecutor's office to encourage prosecution of the individuals. Also, at least 25 calls have been made by cavers to the prosecutor's office. Bowman mentioned that we don't want to tick off

the prosecutor but to encourage action. The members were requested to exercise restraint when contacting the prosecutor.

Concerning the Indiana Department of Natural Resources cave management policy, a permit system has been proposed in order to visit caves. Rea noted that the policy that was originally proposed by the committee was, in his opinion, a pretty good system. Rea briefly described an easy, two part permit system. There would be a small fee charged for three daily permits. After three successful trips using the daily permits, the caver can apply for a free annual pass. Bowman has reviewed the policy and noted that the policy did not set a ceiling on the daily permit fee. Rea and Hank Huffman noted that the suggested fee was two or three dollars. The permit system may go into effect the first of 1998.

Bowman commented on the Oil & Gas drilling permit system. The Indiana Geological Survey has produced a large-scale map indicating cave and spring locations. The oil and gas folks have looked at the map and have found it not to be helpful. The use of the ICS database may still be used or regulations may be established to help protect caves. Efforts are still underway to promote this concept.

Today is the last day to comment on Hoosier National Forest special areas proposals, however letters will still be accepted in the next week or so.

There is concern about a controversial tree cutting proposal in the Buzzard's Roost area of the Hoosier National Forest. Part of the rationale for the cutting is to improve the forest for Indiana bats, yet the "improvements" to the habitat are unproven, nor do they even know if there are Indiana bats in the area.

Karst inventorying on HNF property continues. Volunteers are still needed.

Other properties for IKC acquisition are underway. These include the Orangeville Rise (Orange County) and a conservation easement at Indian Sinks (Harrison County).

Nick Noe is putting together a new IKC display and needs ideas. Kriste Lindberg is putting together a new IKC brochure. She also needs ideas, especially for graphics.

Dunlap moved to destroy the 1997 election ballots. Rea seconded. Motion passed and the teller, Larry Reece is instructed to carry out the destruction.

Dunlap has been working on the next IKC reprint on Mayfield Cave. Hank Huffman has made a donation to help cover the cost. Other donations would be appreciated.

The business near the parking spot for Shiloh Cave is rumored to be closing. This should not effect the quarry although the parking spot may have to be re-evaluated if a new owner moves in.

The next meeting was set for February 7, 1998 at 7:00 PM at the home of Keith Dunlap.

The annual business meeting is scheduled for March 28, 1998 at 10:00 AM at the Greenwood Community Center.

Bruce DeVore moved to adjourn and Clyde Simerman seconded. Motion passed. Meeting adjourned at 9:43 PM.

Submitted by James Adams, Secretary.

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## IKC EXECUTIVE BOARD MEETING MINUTES

Saturday, February 7, 1998

Greenwood, Indiana

### BOARD MEMBERS PRESENT:

James Adams  
Bruce Bowman  
Bruce DeVore  
Keith Dunlap  
Dave Haun  
Kriste Lindberg  
Nick Noe  
Robert Sergesketter  
Clyde Simerman  
Tom Sollman  
Bill Tozer

### BOARD MEMBERS ABSENT:

Larry Bundy  
Larry Mullins  
Tom Rea  
Eric Schmidt

The February Directors' Meeting was called to order at 7:13 PM at the Greenwood, Indiana home of Keith Dunlap. President Bruce Bowman presiding.

Ownership of the Orangeville Rise is in the process of being transferred from The Nature Conservancy to the IKC. TNC wants to know if the IKC feels we



need title insurance. Hank Huffman of the Department of Natural Resources has suggested that we should obtain it. Dunlap suggested that the TNC probably did have insurance. Bowman mentioned that he did not feel it was necessary. There was some discussion; the Directors did not wish to pursue title insurance for the property.

Elections will be held at the March Meeting. Bowman confirmed that he will seek the Presidency for another year. Adams will run for Secretary. Dunlap will seek the Treasurer's position. The Secretary will ask Larry Reece if he will serve as Election Teller.

Director terms for Larry Bundy, Tom Rea, Eric Schmidt, Bob Sergesketter, Clyde Simerman, and Bill Tozer will expire. Tozer, Sergesketter, and Simerman agreed to run for office. According to Dunlap, Schmidt has declined to seek re-election. Bowman will contact Rea and Bundy. Kathy Welling has agreed to run for a Directors position.

Other candidates for office were mentioned and several members and officers will approach various members. All candidate information needs to be sent to Dunlap who will compile the ballot.

Tozer passed out a copy of the draft of the Sullivan Cave property management plan. Letters seeking donations have been sent to area grottos. Information, including a recognition of donors, is also being placed on the IKC web page.

Dunlap reported \$10,311.50 has been received for the fund. There have been pledges of \$11,500 yielding a total of \$21,811.50. Several items have been donated by members as fund raising items. There was discussion on the best way to conduct the fund raising.

Tozer has sent an article to the NSS News and this should appear in the March issue. He feels that things are moving along as expected.

Concerning the draft management plan, the plan reflects the policies that were voted upon at the December meeting. The plan covers the history of the cave which Rea is working on but has not yet been added. Other topics covered are subsurface resources, the access policy, surface resources, surface management, and surface access. Sample

forms for a liability release, visitation rules, and a letter granting permission to visit the cave are attached to the plan. There was discussion and some minor changes were indicated.

Donors will be listed in future issues of the *IKC Update*. An application for a grant of \$5,000 has been made to the National Speleological Society.

Under Earth Day: There would be an opportunity to publicize the Sullivan Cave purchase at the annual Under Earth Day clean up. Although there was thought of not sponsoring this activity in the future, Dunlap suggested that the event should be sponsored again this year with a greater emphasis on organizing the activities. He would like to have several above-ground cleanup activities as well as the traditional in-cave work. Under Earth Day will be Sunday, April 19.

Earth Day Indiana: Noe would like to update the IKC display with new photos and posters. He's looking for ideas and material. Bowman and Noe will get together and see what is needed.

Lindberg is working on a revision of the IKC brochure. It's basically finished but she would like to use more graphics.

The Indiana Cave Symposium sponsored by the Indiana Cave Survey will be held at Cave Country Canoes on April 25. Dave Black is coordinating the event and is looking for presenters.

Treasurer's Report: The IKC has assets of \$19,028.56 and of that, \$10,311.50 is earmarked for Sullivan Cave.

Dunlap has drafted a Memorandum Of Understanding with the Central Indiana Grotto concerning the banking arrangements. The CIG and the IKC are sharing an account and the MOU outlines that the funds are separate and the IKC claims no ownership of those funds. The accounts are combined to gain interest benefits.

The next meeting will be March 28 at 10:00 AM at the Greenwood Community Center. Meeting adjourned at 8:48 PM. Thanks to Keith Dunlap for hosting the meeting and providing dessert.

Submitted by James Adams, Secretary

**DON'T FORGET TO RENEW YOUR DUES**

----- INDIVIDUAL MEMBERS -----						
FIRST	LAST	ADDRESS	ST	ZIP	IKC	JOINED
Joshua	Abdulla	536 S Washington, Apt A	IN	47401	281	03/1995
James	Adams	620 Jackson Road	IN	46142	140	03/1991
Kim	Adams	620 Jackson Road	IN	46142	272	07/1994
James	Adler	8760 N Crystal Road	IN	47527	321	08/1997
John	Ahlberg	19054 Sherman Street	IL	60438	082	04/1988
Tom	Ahlers	1715 E 43rd Street	IN	46013	042	04/1987
Robert	Armstrong	3101 Washington Blvd	IN	46205	300	03/1996
Marty	Atherton	1405 E Hoefgen Street	IN	46203	023	04/1986
Aaron	Atz	1200 S Henderson	IN	47401	324	10/1997
Bruce	Barnes	2712 Torrey Avenue	MI	48108	103	06/1989
John	Benton	208 West 19th Street	IN	47542	123	06/1990
Ted	Bice	20260 Maple Raod	IN	46501	287	08/1995
David	Black	PO Box 147	IN	47122	073	12/1987
The Boehler	Family	503 West Street	OH	43430	207	02/1993
Bruce	Bowman	8364 S State Road 39	IN	46118	112	03/1990
Jeff	Bray	401 Fairfax Road, Apt 322	VA	24060	118	04/1990
Larry	Brewster	10003 Deer Creek Road	IN	46936	280	02/1995
Carl	Brown	7710 Camby Road	IN	46113	310	12/1996
George	Brutchen	306 West South Street	IN	47394	010	03/1986
Larry	Bundy	499 Young Street	IN	46131	113	04/1990
Linda	Bundy	499 Young Street	IN	46131	114	04/1990
Danielle	Burden	3410 South Rural Street	IN	46237	228	03/1993
Ronnie	Burns	PO Box 336	IN	47167	289	09/1995
Stephen	Cahill	2125 Stoneham Drive, Apt B	IN	46260	135	11/1990
Keith	Calkins	610 N Main Street	MI	49103	099	02/1987
The Cannaley	Family	4253 Senour Road	IN	46239	066	11/1987
Barb	Capocy	4628 Seeley Avenue	IL	60515	196	02/1993
Christopher	Carpenter	3221 Georgetown Road	IN	46224	106	07/1989
Kenny	Carrigan	6647 West Loretta Drive	IN	46241	083	04/1988
George	Cesnik	4331 Clifford Road	IN	46112	007	03/1986
The Church	Family	9156 E BC Avenue	MI	49083	198	02/1993
Terry	Clark	7124 Cairo Dixie Road	KY	42406	284	05/1995
Jeffrey	Cobb	1332 Liberty Avenue, Apt 1	IN	47807	312	01/1997
Jeff	Cody	7818 Venetian Way	IN	46217	014	03/1986
Stephen	Collins	2401 Double Branch Road	TN	38401	011	03/1986
Adam	Craig	1008 N Salisbury Street, Apt 68	IN	47906	327	01/1998
Tony	Cunningham	29588 CR 18W	IN	46517	253	10/1993
Rane	Curl	2805 Gladstone	MI	48104	043	04/1987
John	Danovich	5111 Heathwood Drive	IN	46237	226	03/1993
The DeVore	Family	15001 Mill Road, Lot #32	IN	46816	129	07/1990
Robert	Decker	3401 E Loretta Drive	IN	46227	186	02/1993
Mark	Deebel	108 E 6th, Apt 1	IN	46544	331	02/1998
Ralph	Doerzbacher	3133 Kiser Lake Road	OH	43072	247	05/1993
Ron	Dowell	2231 E French Drive	IN	47866	315	03/1997
Keith	Dunlap	32 Troon Court	IN	46143	001	02/1986
Cheryl	Early	70 E Kelso Road	OH	43202	216	02/1993
Bambi	Erwin	1220 E Thompson Road	IN	46227	309	12/1996
Lorlie	Esterly	8708 Blue River Road	IN	47165	179	02/1993
Jeffrey	Farr	4320 South 450 East	IN	47356	200	02/1993
Scott	Fee	2501 Gable Blvd	AL	35215	026	05/1986
Jeffrey	Frazier	302 Oak Street	IN	47993	277	01/1995
Bruce	Gahimer	1304 Highway 57 South, Lot 43	IN	47501	330	02/1998
Joseph	Gasperi	6271 Apache Drive	IN	46254	273	12/1994
Harold	Geick	0N660 Prince Crossing Road	IL	60185	296	01/1996
Allen	Goodcase	8940 Shields Avenue	IL	60513	109	03/1990
David	Haun	PO Box 47961	IN	46247	012	03/1986
Timothy	Heppner	420 West 12th Street	IA	52803	092	11/1988
Hilary	Hopper	1858 Marlboro Drive	KY	40505	313	02/1997
Richard	Horn	7156 E Payne Road	IN	46239	128	07/1990
Tem	Hornaday	4384 Bonillo Drive	CA	92115	065	11/1987
Henry	Huffman	8358 N Mt Tabor Road	IN	47429	071	12/1987
Donald	Ingle	1924 Spang Avenue	IN	47805	268	04/1994
Patrick	Jarboe	997 Sunset Drive	IN	46122	311	12/1996
Eric	Jaroch	3220 W Ina Road, Apt 15106	AZ	85741	308	12/1996
Scott	Johnson	IDNR, 553 East Miller Drive	IN	47401	111	03/1990
Tim	Johnson	4874 Elkwood Drive	KY	41005	320	08/1997
Dan	Kedzie	519 Campus View	IN	47408	317	03/1997
Rauf	Khalid	5406 Shelby Street	IN	46227	325	09/1997
Jonathan	Knott	2227 Lucas Street	IA	52761	144	04/1991

John	Koch	66 E Private Road 925 N	IN	47834	238	04/1993
Glenn	Kotnik, MD	4085 Country Place	IN	46077	166	06/1992
Steve	Lanning	105 Vann Avenue	IN	47714	237	04/1993
Glenn	Lemasters	5020 W 300 N	IN	46106	003	02/1986
Julian	Lewis	217 W Carter Avenue	IN	47129	326	12/1997
Kriste	Lindberg	2354 Windingbrook Circle	IN	47401	303	06/1996
Stephen	Lockwood	RR 1 Box 107	IN	47446	197	02/1993
Daniel	Lucas	11234 Lantern Road	IN	46038	145	04/1991
David	Luckins	3683 Oakleaf Drive	MI	48324	077	03/1988
Bob	Masta	2247 Prairie	MI	48105	221	02/1993
Richard	Maxey	173 W Kanawha Avenue	OH	43214	185	02/1993
Angie	May	2422 Cedar Crest Drive	IN	47203	055	06/1987
Steve	McKenzie	PO Box 11101	IN	46855	159	12/1991
Jane	Miller	4020 S Rural Street	IN	46227	040	04/1987
Jon	Miller	PO Box 65	OH	45822	243	05/1993
Lynn	Miller	4020 S Rural Street	IN	46227	015	03/1986
Douglas	Moore	335 Cherry Valley Road	IL	60061	305	08/1996
Tony	Mulbrecht	432 Barker, NW	MI	49504	257	10/1993
Lawrence	Mullins, Jr	140 Shoal Creek Circle	AL	35115	088	07/1988
Mary Ellen	Murphy	City Hall, 401 W Morton	IN	47404	294	01/1996
Carl	Nelson	6163 Ralston Avenue	IN	46220	290	09/1995
Richard	Newton	9611 S County Road 425 E	IN	47140	124	06/1990
Nicholas	Noe	534 E Edwards Avenue	IN	46227	064	11/1987
Scott	Nordhoff	5839 Ralston Avenue	IN	46220	261	01/1994
Mitchell	Norris	PO Box 344	IN	47308	165	06/1992
Richard	Orr	334 S Marguerite	MO	63135	291	10/1995
Ernest	Payne, Jr	6131 Holly Berry Drive	IN	47715	032	08/1986
Gene	Pelter, Jr	720 Poplar Street	IN	46802	116	04/1990
Donald	Peters	508 Jefferson Avenue	IN	46350	041	04/1987
Joe	Petersen	RR1 Box 129E	IN	46166	271	06/1994
Rosemary	Petersen	RR1 Box 129E	IN	46166	270	06/1994
Theresa	Peterson	PO Box 935	IN	46737	323	09/1997
Everett	Pulliam	560 W Lincoln Street	IN	46122	307	12/1996
Jan	Pursley	13175 Fairwood Drive	IN	46055	283	04/1995
Steve	Ragsdale	5460 Shawkoto Trail	MI	49306	134	10/1990
Kevin	Rasmus	203 S State Street	IL	61701	059	07/1987
Tom	Rea	8677 South State Road 243	IN	46120	008	03/1986
Larry	Reece	2929 E Southport Road	IN	46227	148	05/1991
Charles	Rex	4926 N Marmora	IL	60630	214	02/1993
Jim	Rexius	20044 Sunbury	MI	48152	306	12/1996
Ronald	Richards	8141 Pickford Drive	IN	46227	117	04/1990
Gary	Roberson	c/o Marengo Cave, PO Box 217	IN	47140	171	10/1992
Robert	Roundy	5668 Bergan Drive	OH	45424	202	02/1993
Jay	Savage	1991 W Dunmore	IL	60195	204	02/1993
Eric	Schmidt	2424 N County Road 425 W	IN	46122	107	09/1989
Diana	Schuh	3175 - 3 Watergate Place	IN	46224	267	04/1994
Stephen	Schuh	3175 - 3 Watergate Place	IN	46224	252	08/1993
Robert	Sergesketter	1090 Hopf Avenue	IN	47546	070	12/1987
Ray	Sheldon	16195 East 300 South	IN	47232	149	05/1991
Don	Shofstall	5004 Bassett Avenue	IN	47715	104	06/1989
Bruce	Silvers	3528 Fairfield Avenue	IN	46807	334	03/1998
Clyde	Simerman	1121 Sinclair Street	IN	46808	282	03/1995
Noel	Sloan	8715 Garden Rock Court	IN	46256	033	09/1986
Gordon	Smith	9850 N Skyline Drive	IN	47119	126	06/1990
Thomas	Sollman	RR 2, Box 23A	IN	47648	150	05/1991
Gregory	Stamp	5551 Lesourdsville-West Chester Rd	OH	45011	205	02/1993
Susan	Strickland	1701 E 58th Street	IN	46220	046	04/1987
Kevin	Strunk	6068 Riverview Drive	IN	46208	027	06/1986
Bob	Thompson	7351 Cayman Way, Apt 6	OH	45039	293	12/1995
Bill	Tozer	9698 South 150 West	IN	46064	017	03/1986
Bruce	Trotter	5580 E Baseline Road	IN	47203	060	07/1987
Charles	Tubbs	19500 CR 14	IN	46507	137	01/1991
Nancy	Tubbs	19500 CR 14	IN	46507	138	01/1991
Gina	Turner	199 14th Street NE, #602	GA	30309	302	04/1996
Charles	Vandeventer	525 Lawndale Drive	IN	46142	217	02/1993
John	Vargo, Jr	7419 S Linden Road	MI	48473	054	06/1987
Richard	Vernier	RR 2 Box 350	IN	47670	047	04/1987
Derk	Walker	251 E US Highway 52	IN	46173	301	04/1996
Mark	Webb	PO Box 194	IN	46131	009	03/1986
Scott	Webb	6 S Tocovi Court	IN	46112	168	08/1992
Stan	Weinzapfel	4221 Wabash Avenue	IN	47803	319	05/1997

Stephen	Weinzapfel	1787 W Division Road	IN	47546	318	04/1997
Norbert	Welch	PO Box 6872	IN	47903	244	05/1993
Barry	Welling	717 Woodruff Place W Drive, Apt 2	IN	46201	316	03/1997
Kathy	Welling	8679 S SR 243	IN	44120	002	02/1986
Rich	Whisler	1670-A Monticello Court	IL	60187	329	02/1998
Bruce	White	319 N Fess, Apt 4	IN	47408	328	01/1998
John	Wilkerson	20970 Delaware Street	MI	48034	170	09/1992
Jonathan	Willet	8012 East State Road 45	IN	47468	333	03/1998
Tom	Willet	304 North Morton	IN	47404	332	03/1998
Kitty	Wooldridge	140 Shoal Creek Circle	AL	35115	304	06/1996
Kevin	Wools	5828 W 300 S	IN	46163	222	02/1993
The Wright Family		7400 Brophy Road	MI	48843	194	02/1993

----- ORGANIZATION MEMBERS -----

Bluespring Caverns,	RR 11, Box 1245	IN	47421	292	11/1995
Central Indiana Grotto	PO Box 153	IN	46206	136	01/1991
Dayton Underground Grotto	23 Wells Avenue	OH	45431	262	01/1994
Evansville Metro Grotto	1787 W Division Road	IN	47546	152	08/1991
Harrison-Crawford Grotto	c/o Dave Black, 6917 Dalby Road	IN	47122	141	03/1991
Mid-Hoosier Grotto	PO Box 632	IN	46131	075	01/1988
Northern Indiana Grotto	PO Box 10297	IN	46851	146	04/1991
St Joseph Valley Grotto	PO Box 1302	IN	46546	322	09/1997
Windy City Grotto	c/o Steve Petruniak, PO Box 299	WI	53157	052	06/1987
Wyandotte Cave SRA	c/o Roger Gleitz, RR1 Box 85	IN	47137	314	02/1997

----- COMPLIMENTARY -----

American Cave Cons. Ass'n	c/o Dave Foster	PO Box 409	KY	42749
American Cave Cons. Ass'n	c/o William Elliott	12102 Grimsley Drive	TX	78759
Bat Conservation International		PO Box 162603	TX	78716
NSS President	c/o Dave Luckins	3683 Oakleaf Drive	MI	48324
NSS Executive Vice President	c/o Fred Wefer	PO Box 47	VA	24458
NSS Administrative Vice President	c/o Doug Medville	11762 Indian River Road	VA	20191
NSS Operations Vice President	c/o Tom Rea	8677 South SR 243	IN	46120
NSS Conservation Chair	c/o David Jagnow	1300 Iris #103	NM	87544
NSS Cave Acquisition Committee	c/o Ray Keeler	22354 N 68th Drive	AZ	85310
NSS Conservation Grants Chair	c/o Al Krause	1721 SW 76th Terrace	FL	32607
NSS Conservancies Committee	c/o John Wilson	9504 Lakewater Court	VA	23229
NSS COMC Chairman	c/o Gary Bush	2630 Stonegate Drive	FL	32223
NSS News Newsletter Review	c/o Bob Springston	17034 Wilson Way	CA	95076
NSS Speleo Digest	c/o Scott Fee	2501 Gable Blvd	AL	35215
NSS Library		2813 Cave Avenue	AL	35810
Bloomington Indiana Grotto		PO Box 5283	IN	47407
Detroit Urban Grotto	c/o Daniel Crowl	1025 Crestwood Glade	MI	49930
Dogwood City Grotto Library		3232 Cobb Pkwy, Ste 264	GA	30339
Eastern Indiana Grotto	c/o Brian Leavell	1627 South M Street	IN	46036
Fort Knox Grotto	c/o Steve Gray	263 Forest Trace	KY	40160
Greater Cincinnati Grotto	c/o John Wisher	7427 Thompson	OH	45239
Louisville Grotto	c/o Alex Hicks	4806 Lacarem Drive	KY	40279
Indiana Cave Survey	c/o Bruce Trotter	5580 E Baseline Road	IN	47203
Michigan Interlakes Grotto		Box 218	MI	48387
Michigan Karst Conservancy		2805 Gladstone Avenue	MI	48104
Western Indiana Grotto		PO Box 1471	IN	47803
Windy City Grotto	c/o Ralph Earlandson	802 South Highland	IL	60304
Wittenburg U Speleo. Society	c/o HH Hobbs	Witt Univ, PO Box 720	OH	45501
The Cave Conservationist	c/o Jay Jorden, Editor	11201 CR 132	TX	75009
Hoosier National Forest	Attn: Ellen Jacquart	811 Constitution Avenue	IN	47421
US Fish & Wildlife Service	Attn: David Hudak	620 S Walker Street	IN	47403
US Fish & Wildlife Service	Attn: Ron Rensnider	Fort Snelling	MN	55111
Waynes Cave Patron	c/o Serena Smith	405 N Johnson Avenue	IN	47404
BIG Liaison	c/o Anmar Mirza	1600 E 3rd Street	IN	47401
Jackie Bellwood	Cincinnati Museum	1720 Gilbert Avenue	OH	45202
Thomas Brent	Mitchell Plain Res Ctr	1516 R Street	IN	47421
Terri Brown	VA Dept Of Conservation	PO Box 1506	VA	24084
John Cole	Ohio Valley Region	1196 Mill Creek Drive	KY	40517
Mary Foster		2821 Burnham Court	GA	30360
Ben Hubbard	IDNR-Div of Forestry	402 W Washington St	IN	46204
Tim Maloney	Hoosier Environ Council	1002 E Washington Street	IN	46202
Allen Purcell	The Nature Conservancy	PO Box 5	IN	47112
Pete Thorn	Harrison-Crawford SF	7240 Old Forest Road	IN	47112
Mark Young	Spring Mill State Park	PO Box 376	IN	47446

# ANNUAL BUSINESS MEETING

## SATURDAY, MARCH 28th, 10:00 AM

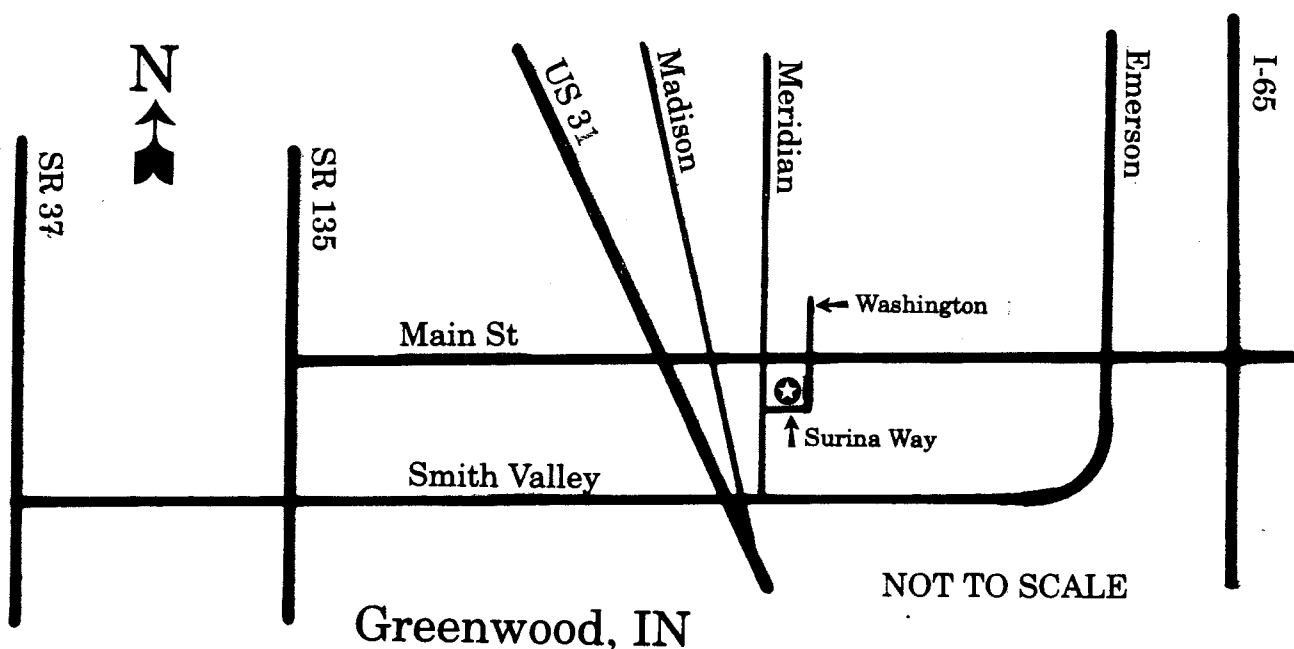
### GREENWOOD, INDIANA

### GREENWOOD COMMUNITY CENTER

Directions from SR 37: Take Smith Valley east across SR 135, US 31, Madison Ave, to Meridian. Turn north on Meridian pass the schools. Turn east on Surina Way (Craig Park entrance) to the Community Center.

Directions from I-65: Take Main Street west approximately 1.5 miles. Immediately after crossing the railroad tracks and before the fire station, turn south on Washington. Cross the little bridge and continue to Surina Way. Turn west past the police government center to the Community Center.

Enter the Community Center via the main entrance and turn right. Our meeting room is on the right just past the game room.



#### INDIANA KARST CONSERVANCY, PO BOX 2401, INDIANAPOLIS, IN 46206-2401

I would like to help the IKC protect Indiana's unique caves and other karst features. Enclosed is:

\$ \_\_\_\_\_ for IKC membership dues at \$15 per year (dues expire March 31st of each year, please pro-rate @ \$1.25/month).

\$ \_\_\_\_\_ donation to the general IKC fund.

\$ \_\_\_\_\_ donation restricted to a specific IKC project. Please specify: \_\_\_\_\_

\_\_\_\_\_ I know of an area worthy of protection. Please contact me.

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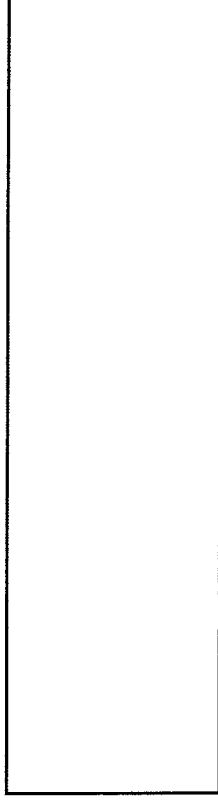
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Make checks payable to the Indiana Karst Conservancy, Inc. and mail to the IKC Treasurer, c/o Indiana Karst Conservancy, PO Box 2401, Indianapolis, IN 46206-2401. The IKC is an IRS recognized 501(c)(3) non-profit organization with membership dues and donations fully tax deductible.

**Indiana Karst Conservancy**  
**PO Box 2401**  
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