

TKC

No. 9 - June 1988

UPDATE



INDIANA KARST CONSERVANCY, INC.

PO Box 461, Plainfield, IN 46168

Affiliated with the National Speleological Society.

The Indiana Karst Conservancy, Inc. 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.

* * * * * BOARD OF DIRECTORS * * * * *

- President Keith Dunlap (317) 242-3845(W)/(317) 882-5420(H)
- Secretary Kathy Hornaday (317) 634-6122(W)/(317) 881-7936(H)
- Treasurer Cindy Riley (317) 634-3837(H)
- Director Mike Miessen (317) 897-1668(H)/(812) 333-5797(H)
- Director Lynn Miller (317) 632-4525(W)/(317) 784-3724(H)
- Director Ernie Payne (812) 477-7043(H)
- Director Tom Rea (317) 252-4248(W)/(317) 745-7772(H)
- Director Noel Sloan (317) 929-8961(W)/(317) 845-8821(H)

* * * * * COMMITTEES/ CHAIRMEN * * * * *

- Cave Acquisition & Management/ Keith Dunlap (317) 882-5420
- Education vacant
- Scientific & Research vacant
- Resource Inventories/ Jim Wolford (317) 259-1088
- Membership/ Kathy Hornaday (317) 881-7936
- Publications/ Keith Dunlap (317) 882-5420
- Fund Raising/ Cindy Riley (317) 634-3837
- Buckner Cave Renovation Project/ Mike Miessen (317) 897-1668
- Enviromental Concerns, HEC Liaison/ Kathy Hornaday (317) 881-7936
- Hoosier Forests Project/ Kathy Hornaday (317) 881-7936

* * * * * CAVE PATRONS * * * * *

- Coon Cave/ Keith Dunlap (317) 291-3845
- Grotto Cave/ Mike Miessen (317) 897-1668
- Shaft Cave/ Keith Dunlap (acting) (317) 291-3845
- Shiloh Cave/ Marty Atherton (317) 783-2194
- Wayne's Cave/ Tom Rea (317) 745-7772
- Woodard Cave (TN)/ NIG - contact Gene Pelter (219) 456-3374

* * * * * GROTTO LIAISONS * * * * *

- Bloomington Indiana Grotto/ Dave Everton (812) 333-5797
- Central Indiana Grotto/Mike Miessen (317) 897-1668
- Evansville Metropolitan Grotto/ Ernie Payne (812) 477-7043
- Mid-Hoosier Grotto/ Jeff Cody (317) 736-9489
- Northern Indiana Grotto/ Gene Pelter (219) 456-3374

Cover photo by Philippe Bayle; Bouquet d'aragonite; courtesy Speleo Projects.
Publishing facilities courtesy of the Central Indiana Grotto; Editor and Publisher Keith Dunlap, Assistant Angie Manon.

**** QUARTERLY MEETING REMINDER ****

FRIDAY, JUNE 17th
7:30 PM

BLOOMINGTON, INDIANA
IU MEMORIAL UNION
DISTINGUISHED ALUMNI ROOM

The quarterly meetings are for members and other interested persons to have an open forum for discussing past, present, and future IKC projects, a place to voice opinions and make suggestions, and in general, a way to let the Directors know what are the concerns of the caving community. The meetings are informal, and everyone is encouraged to attend and participate. Remember this is *your* organization, so get and stay involved.

DISCUSSION TOPICS: Hoosier Forest Project Committee status report, and planned future activities; DNR's Batwing Cave project, summary of project and activities; Update of other current IKC projects.

DIRECTIONS: See map and directions inside back cover.

REMINDER: Construction of the gate at Batwing Cave is also this weekend. We hope that members will attend this meeting, then continue down to Wyandotte Woods Campground and help out (see more details on page xx).

Meeting arrangements courtesy Bill Baus and the Indiana Cave Survey.

EVENTS CALENDAR

- 16-19 JUN = CONSTRUCTION OF GATE AT BATWING CAVE (see page 5).
- 17 JUN = IKC QUARTERLY MEETING, Bloomington (see notice above).
- 21 JUN = INDIANA CAVE SURVEY MEETING, Bloomington, IU Geology Building, Room 143, 7:30 PM.
- 27JUN-1JUL = NSS CONVENTION, Hot Spring, South Dakota.
- 30 JUN = MANAGEMENT OF PRIVATELY OWNED UNDEVELOPED CAVES SYMPOSIUM, NSS Convention. The IKC will be presenting one or two papers at this meeting.
- 23-24 JUL = BATWING CAVE SURVEY (see page 13).
- 06-07 AUG = MKC ANNUAL MEETING (6th) & THE FIBORN KARST PRESERVE DEDICATION (7th), Michigan. Contact Tom Rea for details.
- 12-14 AUG = INDIANA CAVE CAPERS, Delaney Creek Park, Washington Co.
- 27-28 AUG = COON & GROTTO CAVE WORK WEEKEND. Annual clean-up before the bat hibernation closure (see page 13).
- 17-18 SEP = KARST ENCOUNTERS (tentative).
- 01-02 OCT = BUCKNER RENOVATION FALL CAVE-IN (see page 14).

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 informed, and to document past, report on current, and announce future IKC activities and business. Submission of articles for publication pertaining to the IKC or any other related conservation subjects are encouraged. Forward material to: *IKC Update*, PO Box 461, Plainfield, IN 46168.

RAMBLINGS FROM THE PRESIDENT...

As you will see upon reading this issue, the IKC has many many projects concurrently under way or planned in the near future. These projects just don't get accomplished by themselves, they need volunteers. Not being one to solicit actions through guilt, I thought I would let Johnathan Beard of the Ozarks Highlands Grotto do it with his essay:

PAYMENT FOR OUR PRIVILEGE *

To cave is not a right; it is a privilege, a privilege:

Given to us by a landowner. What does the landowner receive in return?

Given to us by fellow grotto members (they invite us, accept us, give us cave locations, give us training). What does the grotto get in return?

Given to us by the cave itself (we trample its floors, disturb its wildlife, muddy its streams, photograph its beauty). What benefit does it receive in return?

Caving is a privilege with which we are rewarded by caving by established rules and regulations, and by doing "work" we do related to caves. The rules, we should all know and abide by now; but often we may not be aware of the "work" we have to do to earn our privilege.

It is up to organized cavers (NSS members, grotto member, etc.) to conduct this "work", for there is no one else willing to do it. The "work"? Conservation. Protection. Restoration. Education. Scientific research. Mapping. Cave file work. Each of us should be involved *regularly* with at least one of these vitally important interrelated areas as payment for our sport caving privileges.

Some of the above items require no formal education. But they do require time and energy. This includes cleaning caves of the effects of vandalism, educating the public so vandalism and groundwater pollution will not continue. Some items may require some kind of training to perform correctly. Scientific research conducted by cave biologists and cave geologist require formal education, but these scientists need help of cavers to gather data and perform field work. Mappers need to be trained, yet even they need the untrained for help. Cavers can contribute to cave files work by locating new caves, new passages, photographing cave features, and writing cave descriptions.

All these "work" related cave activities are never-ending goals with which we should involve ourselves as remittance for the privilege to set foot underground. Let us separate ourselves from selfish cavers who cave strictly for their own selfish wants. Let's leave a legacy of conservation, education, research, and data gathering instead.

I hope our IKC members are already involved in these "work" obligations, but if not, there is no time like the present to set things straight.

- Keith Dunlap

NEWS BRIEFS...

- As detailed in the minutes (starting on page 20), the annual election resulted in all of last year's Board of Directors (Keith Dunlap, Kathy Hornaday, Cindy Riley, Mike Miessen, Lynn Miller, Tom Rea, Noel Sloan) being re-elected, plus an eighth position was added and filled by Ernie Payne. Please communicate your thoughts and views on cave conservation to these Board Members so they can represent the membership.
- As noted in the *NSS News*, the Federal Cave Resource Protection Act was passed unanimously in the US House of Representatives on March 28th. Support must now be given to pass the same legislation (S# 927) in the Senate. *Please contact your Senators today!*
- Since the last issue of the *Update*, we have gained eight new members (see list on page 25). Welcome to the IKC, and please don't be bashful about becoming involved.
- The April 16th Buckner's clean-up day had a good turn out (but we can always use more people). Approximately half the crew hauled trash from the cave. The remainder worked above ground: burying conduit and installing permanent electricity out to the kiosk; roping off some of the most degraded trails to allow them to "heal", spreading grass seed, and hauling away above ground trash. There were many visitors camping for the weekend, and they all seemed appreciative of our activities to make Buckner a better area. Participants for the clean-up included George Cesnik, Gene Pelter, John and Joy Vargo, Keith Dunlap, Angie Manon, Jane and Lynn Miller, Mike and Sherri Miessen, Dick Blenz, and a couple others.
- Mike and Sherri Miessen, plus a couple of BIGers have been spending more time out at the Buckner property trying to repair some of the trails by installing erosion barriers. Neglect in the past has really taken its toll on some of the trails, so their efforts should make a lot of difference.
- The CIG's May grotto trip was a clean-up trip in through the culvert entrance of Donnehue Cave. Using the IKC's haul bags, they netted four good size bags of trash between the entrance and the flowstone blockage, then up to Bergs Squeeze. They also eradicated most of the graffiti in these same areas making quite a difference. Participants included Bill Tozer, Scott Fee, John and Joy Vargo, Ken Janice, Spike Seileg, Mark Laing, Dawn Laing, Robin Fitch, Jack Hissong, Mark Swelstead, Megan Ahlstrom, Bill ?, and Chris ?.
- The IKC has purchased three more trash haul bags from Lost Creek Packs, bringing our total ownership to six bags. The BIG and the NIG also have two a piece. Any grotto or organization that is planning a clean-up should try to borrow these bags, as they are extremely durable and make trash hauling much easier.
- Mike Miessen has been constructing a data base of names of those who have signed liability waivers to visit the caves the IKC manage. In the last two years, the IKC has granted permission to over 300 individuals.
- In the May issue of *Outdoor Indiana*, John Whitaker published a very informative article on the bats of Indiana. Most of the article was devoted to summer bats colonies (one of his current projects). The article is well worth reading. And posing on the cover of the June issue of this same magazine is IKC member Hank Huffman.
- A correction in the last issue of the *Update*, it was Ernie Payne of the EMG that donated \$25 to the Buckner Project.

BATWING CAVE PROJECT UPDATE
by Keith Dunlap

Batwing Cave, as most of you know from previous discussions and articles in the *Update*, serves as a major hibernaculum for the endangered Indiana bat (*myotis sodalis*). The cave had previously been dedicated as a nature preserve and is listed as a "Priority I hibernacula" by the federal Fish & Wildlife Agency. Per the federally sponsored Indiana/Gray Bat Recovery Team, the cave was recommended for gating to protect against winter disturbance by visitors or an intentional slaughter. The responsibility of the gating was given to the Indiana DNR, specifically Scott Johnson of the non-game section of Fish and Wildlife. Having worked with the IKC in the past, Scott formally approached us last September to see if we would be interested in assisting with this project. The merits of the project were discussed at that time, again at the December meeting, and were elaborated upon in the last issue of the *Update*. At the March meeting, the membership strongly supported the proposal to assist the DNR (there were still some feelings that the year-round closure policy should be addressed in the future).

The date set for the gate construction is June 16-19th. The organizing and logistics of the project are to be responsibility of Scott Johnson, and the gate design and construction are under the direction of Dave Dalton of the Cave Conservation Institute (CCI). The main contribution asked of the IKC is to supply manpower (although we are sharing our previous experience in such projects and are assisting with the logistics as much as possible). For those helping, camping will be provided at Wyandotte Woods' Class A campground. Mileage and other incidental expenses may also be reimbursible. Also, on Saturday evening, after we are done working on the gate for the day, those interested may tour this otherwise closed cave.

Actual preparation work for this project has been going on since March when a gate feasibility/site selection trip was made into the cave (several bat and bat gate experts were involved, as well as several IKC members). Scott has had the task of procuring materials, soliciting manpower (in addition to the IKC volunteers), and making arrangements for everyone.

The gate dimensions will be approximately thirteen feet wide, by seven feet high. It will be constructed of four inch angle iron structural steel, oriented horizontally (this has been found optimum to allow the bats to freely pass through). The location of the gate in the cave is just beyond the twilight zone, preceded by the twenty foot climbable entrance pit/slope, a slide under ledge, a fifteen foot diameter by eight foot high room, and a twenty foot long stoopway. The gate will be placed just beyond this stoopway as the passage opens up into the "big cave". This site was selected to provide sufficient cross-sectional area so as not to disturb the air flow nor the bats, provide a large enough area to work during construction, and yet not be too large of area to make the gate too costly. A secondary bypass will also be gated, and a third small bypass tube will be plugged.

Site preparation work was performed May 12-14th. Many *LARGE* boulders had to be moved to provide room for the gate's horizontal foundation, plus space to work. Work was also expended in the entrance pit area to aid in material/equipment hauling into the cave. Mud and debris were removed to

the surface via a bucket and two pulley rope haul system. Participants included Scott and several other DNR personnel, plus IKC members Glenn Lemasters, George Brutchen, Keith Dunlap, Angie Manon, Ernie Payne, Jane Miller, and Lynn Miller.

On Friday, June 10th, the steel will be delivered by the vendor and hand carried to the cave (approximately a quarter mile slightly downhill) by a prison crew. Each twenty foot length of steel weighs approximately 250 pounds and the foundation plate will weigh approximately twice that. The concrete will also be delivered that day, but may be stored at Wyandotte Cave depending upon the weather and available time of the prison crew.

On Wednesday, June 15th, Scott will pick up the rented equipment (welders, torches and tanks, etc...) and other supplies. He may also start moving required equipment and supplies to the cave entrance.

On Thursday, out of state workers will arrive in the morning (Dave Dalton (CCI) and others from Virginia, Bob Currie (USF&W) from North Carolina, and possibly Ron Ressenider (USF&W) from Minnesota). Several DNR people will also be there along with several IKC members to make up a crew of approximately a dozen. Equipment hauling to the entrance is first on the agenda. A haul system must be rigged to facilitate moving supplies into the cave. As soon as possible, work will begin in the cave, consisting of wall and ceiling drilling for the edge anchors, and positioning of the foundation plate.

On Friday, work will continue in the cave. Once all the edge plates are in place, the two main vertical supports will be fabricated and positioned. Next the gate will start to take shape as the horizontal bars are trimmed and added. To be on schedule, a significant amount of the gate should be completed by this evening.

On Saturday, the IKC volunteers replace the DNR workers. Much needs to be done. The metal work needs to be completed on the main gate. The door needs to be fabricated and installed. All the concrete materials (concrete, water, forms, etc...) need to be hauled to the entrance and into the cave. The site needs to be prepped for the concrete foundation to be poured. Work also must begin, and preferably be completed, on the smaller bypass gate.

On Sunday, the concrete will be poured. Anything else that needs to be done will be completed. All equipment must be hauled out of the cave and back to the road. Hopefully, we will finish for an early departure. Should we run out of things to do, or finish ahead of schedule (not likely), more work can be done in the entrance pit. Also, the gate will need to be painted. There is also a small amount of graffiti that could be removed in the cave (contingent upon permission from the Nature Preserve people).

This project is quite an undertaking, but with enough people willing to help, responsibilities can be traded off so no one has to be over-worked. I currently have about a dozen IKC members/cavers lined up for both Saturday and Sunday, plus a few on Thursday and Friday. Should any one else be interested, contact me before Wednesday night, or come to the IKC meeting Friday night prepared to head south.

HOOSIER FORESTS PROJECT COMMITTEE
QUARTERLY REPORT
submitted by Kathy Hornaday

On April 1, 1988, the Memorandum of Understanding was signed by the Forest Service. The draft sent by the Committee was accepted without any changes. On April 6, it was signed by Keith Dunlap, and went into effect.

On May 7, the Committee sent a Position Paper to the Working Group which is meeting to try to resolve the issues under appeal. The Paper was considered at the Group's meeting on May 12. Terry Hoffman, Deputy Forest Supervisor, reported that the paper was unanimously accepted by all members of the group, as presenting a reasonable set of over-all standards and guidelines for surface activity in cave and karst areas. The Position Paper and the Memorandum of Understanding are printed in full following this article.

There have been some changes in the Committee:

- Steve Reesman has replaced Dave Weyrick as alternate for NIG;
- Jack Countryman has replaced Kevin Strunk as representative for ICS (a new alternate will be chosen by ICS at their next meeting);
- Sam Frushour has replaced Dick Powell as alternate for BIG;
- And the newly-formed Harrison-Crawford Grotto has asked to be included in the Committee. Information has been sent to them, along with the forms for designating their representative and alternate.

Tom Rea and Kathy Hornaday met with Forest Service staff on June 2, to clarify procedures, forms, etc. Each participating Grotto will be sent a set of National Forest topos, showing the boundaries of actual Forest Service owned-land. The liability release was accepted by the Forest Service. All participants in the Committee project should sign one of these forms, to be returned to the Committee. At the same time, a National Forest Service Volunteer Agreement is to be signed, to be returned to the Committee, for forwarding to the Forest Service. The forms will be available from the representative for each group.

Forest Service roads are considered open, unless closed by a gate, dirt mound, or sign. Access to gated roads can be obtained by contacting the appropriate Ranger District Office. Contact in the Brownstown District is Larry Mullins, with Bob Aynes as back-up. In the Tell City District, it is Larry Martoglio, with Norm Herzog as back-up. Any activity which will disturb the surface (i.e. digging) must be cleared with the District Office.

Hours should be recorded for any work done on this project, as the Forest Service uses this data in their reports, and we will get credit for it. For now, data on cave locations, etc., should be recorded on the ICS forms and forwarded to the Committee. These forms will then be copied for the master map, and sent on to the ICS, and to the Forest Service after Committee action.

The MOU will be amended to include cave clean-up and restoration as activities included under the agreement.

There will be a joint press release issued in a week or two, announcing the cooperative effort.

POSITION PAPER
on the
MANAGEMENT PLAN FOR THE HOOSIER NATIONAL FOREST

prepared by the
Hoosier Forests Project Committee
of the
Indiana Karst Conservancy, Inc.

The Hoosier Forests Project Committee of the Indiana Karst Conservancy is a standing committee of the Conservancy, made up of representatives chosen from each of the seven major organized caving groups in the state. This includes the five chapters (grottos) of the National Speleological Society, the Indiana Karst Conservancy, and the Indiana Cave Survey. The committee has established a formal working relationship with the Forest Service, in the form of a Memorandum of Understanding, to identify, inventory, and make site-specific recommendations for the protection of the caves on Forest-owned land.

The caves on the Hoosier National Forest represent a unique, non-renewable resource. The formations and ecosystems within the caves are fragile, and easily disrupted. In most cases, the damage is irreparable. Damage to the formations is most often the result of vandalism. Although the Forest-owned caves are not publicized or well known at this time, wide-spread vandalism and heavy visitation could become a problem in the future. Measures need to be taken now to limit or avoid potential problems. None of the caves have been identified as suitable for development for recreational use by the general public.

Damage to the ecosystems, however, can be caused by a variety of surface activities, and can be the result of pollution, siltation, changes in the food chain, changes in water flow and changes in water quality. For this reason, we recommend the following general practices be included in the overall Management Plan.

1. Buffer or no-cut zones with a minimum 150-200 foot radius should be maintained around cave entrances and in-feeder drainages with adjacent slopes of less than 30 degrees. Any slopes steeper than 30 degrees adjacent to entrances should have no surface activity of any kind. This will limit sedimentation of the entrance areas, which are used by many troglobites to complete their life-cycles and to forage for food. It will also preserve the aesthetic value of the cave entrance.

2. Similar buffer zones should be maintained around direct drainage inputs (i.e. sinkholes and swallowholes known to open into a cave's drainage system, or perennial, intermittent or ephemeral streams flowing into a known cave). This will prevent siltation of the cave stream, which radically changes the cave environment. Overland wash of fertilizers, herbicides, etc., which could pollute subterranean habitat and food sources should be precluded.

(continued...)

3. Clearcutting should be prohibited in the vicinity of any cave with a significant bat population. Many bats roost and raise their young in the forest during the summer. Destruction or disturbance of this habitat could cause migration to other areas with large bat populations. This could result in over population for the available environment, or could leave the bats more vulnerable to catastrophic events such as illness, vandalism, or natural accidents which could destroy a large number of bats.

4. In addition to the entrance no-cut zone, caves with significant bat populations should have a forested corridor (no-cut zone) 150-200 feet wide between the cave and foraging areas (riparian woods, or the closest undisturbed wooded area).

5. Areas which contain a fairly dense concentration of caves (e.g. the Tincher Lake/Tincher Hollow area) should be designated natural forest, roadless areas (6a). The environmental and aesthetic integrity of the area should be preserved.

6. Potential riparian foraging habitat should be protected by prohibiting tree harvesting and other significant activity within 75 - 100 feet on either side of perennial streams.

We will be suggesting site-specific modifications to these general recommendations, as appropriate for the protection and preservation of each cave's environment and inhabitants.



Memorandum of Understanding
between the
Forest Service-U.S. Department of Agriculture
and the
Indiana Karst Conservancy, Inc.

This Memorandum of Understanding is made and entered into by and between the Indiana Karst Conservancy, Inc., an Indiana not-for-profit corporation, hereinafter referred to as the Conservancy, and the Forest Service, USDA, hereinafter referred to as the Forest Service, under the provisions of the Organic Administration Act of June 4, 1897 (16 U.S.C. 475), 36 CFR 294.1, and the National Environmental Policy Act of January 1, 1970 (42 U.S.C. 4321).

Purpose:

Caves are a natural resource which have important scientific, recreational, educational, and scenic values. These are unique, nonrenewable resources which are easily destroyed or permanently damaged. All contents of a cave, its speleothems, life forms, cultural, paleontological, and other deposits, and its related karst features are significant to its value and need protection and management. Effective cave management requires resolution of conflicts between cave resource protection and other surface and subterranean activities.

The purpose of this Memorandum of Understanding is to promote the effective protection and management of the caves in the Hoosier National Forest, which are the responsibility of the Forest Service, by involving Indiana cavers, through the Conservancy, which was established to preserve caves and karst features and to promote the study of, conservation of, and education about cave and karst resources.

To achieve this goal, the parties hereto agree as follows:

Definitions:

For the purposes of this agreement, the definitions found in FSM 2356.05 shall apply.

Article I

Subject to the availability of funds, the Conservancy shall:

1. Provide a multi-disciplinary team, transportation, subsistence and materials needed to inventory and investigate the cave and karst resources of the Hoosier National Forest. The multi-disciplinary team should consist of a core team which will be composed of persons with skills and knowledge in the areas of cave biology, geology, and cartography. Persons with other skills and knowledge associated with caves will be used to build additional capability into the inventory team.
2. Establish a Standing Committee, to be known as the Hoosier Forests Project Committee, to be composed of representatives of interested Indiana caving groups, to encourage state-wide participation and input from the Indiana caving community.
3. Provide a coordinator, as a representative of the group. The coordinator will be the chairman of the committee, and will be named in writing by the Conservancy's leadership.
4. Meet at least once annually with the Forest Service to establish priorities for investigation and to exchange such information as may be pertinent to this Memorandum of Understanding.
5. Information developed by the Conservancy will be proprietary (owned by the Conservancy and/or participating group(s)), and may be made available to the Forest Service to aid its management decision making.
6. Upon request by the Forest Service, train team members in basic caving techniques and safety requirements.

(continued...)

7. Provide reports to the Forest Supervisor, or his designee, on its work on the Hoosier National Forest and other selected activities which may be used for support of resource management.

Upon request, provide draft maps of caves that the Conservancy has surveyed and other proprietary information that can be helpful in the protection of caves, interpretation of cave resources or the management of other natural resources.

8. Develop for Forest Service review and approval a plan for the inventory of cave and karst resources. The plan will be reviewed and revised as is deemed necessary.

9. Participate with the Forest Service in administrative studies relating to cave and karst resources.

10. As requested by the Forest Service, coordinate the efforts of others wishing to study the cave and karst resources.

11. Provide the Forest Service with an authenticated copy of the Articles of Incorporation, By-Laws, organization chart, a current list of Conservancy Directors and officers, and a list of the members and officers of the standing committee.

12. Upon request by the Forest Service provide information, educational or interpretive programs for Forest staff and/or the public.

13. Inform the Forest Service of any matters which may affect the administration and/or management of the resources of the Forest.

14. Provide photographs to document inventory findings.

15. Insure that all team members have a properly executed National Forest Volunteer Agreement currently on file with the Forest Service. The volunteer agreement will cover those periods when members of participating groups are conducting inventories and studies on behalf of the Conservancy.

16. Insure that all members of participating groups who undertake activities on the Hoosier National Forest on behalf of the Conservancy will have on file with the Conservancy a properly executed waiver of liability. Members of participating groups who do not have a waiver of liability on file with the Conservancy will be deemed to be acting on their own, and not on behalf of the Conservancy.

17. Provide the Forest Service with copies of the executed waivers of liability, upon request.

18. Agree not to investigate or access areas of any caves supporting known populations of endangered bats during the winter hibernation period of September 1 through March 31, unless entry is for a specific purpose concerning the bats (i.e. censusing, etc.). If any bats which are included on the endangered and threatened list compiled by the U.S. Department of the Interior are observed during investigations, operations in this area will be halted immediately and findings reported to the coordinating Forest Service officer. Further investigative activities will be at the discretion of the Forest Service.

19. Comply with all rules and regulations which apply to the Hoosier National Forest and the Conservancy's activities.

20. Not disturb any prehistoric or historic resources found during its investigations. The locations of caves, along with photographs of cave interiors and any artifacts found lying on the surface of the ground, will be reported as a part of this agreement but no artifacts shall be removed.

Article II

The Forest Service shall:

1. Provide the Conservancy with available information about the cave and karst resources on the Hoosier National Forest.

2. Provide ingress and egress on Forest Service controlled roads for access to National Forest lands to carry out the cave and karst inventory.

3. Provide report format, inventory forms, map scales and similar direction necessary for acceptable quality reports.

4. Provide a Forest service coordinator who shall be named in writing.

5. Provide the Conservancy with information on current State and Federal lists of threatened and endangered species.
 6. Coordinate activities involving any endangered, threatened or sensitive plant or animal species.
 7. Keep the Conservancy informed and consult with the Conservancy when proposed management decisions or actions will impact activities governed by this agreement.
- Subject to the availability of funds the Forest Service shall:
8. Review promptly reports, maps and other data submitted by the Conservancy.
 9. Provide drafting and duplicating services to the extent that personnel or volunteers are available.
 10. Upon request, furnish topographic, geologic and National Forest ownership maps.
 11. Work through the Conservancy's coordinator to provide reimbursement for some incidental expenses incurred under individually negotiated volunteer agreements.
 12. Provide expertise in disciplines not available to the Conservancy depending upon the availability of people.
 13. Provide training and support in the use of surface survey equipment.

14. Manage its cave resources through future implementation plans, based upon certain information provided by the Conservancy. Such plans will be available for public review. However, certain information if released, may prove detrimental to the protection of speleothems, significant archaeological sites, or endangered species that are protected by law. Such information is regarded as working documents or is protected by law qualified under exempt categories of the Freedom of Information Act. Such documents or parts thereof may be withheld from requesters if judged to be sensitive or if such release would be detrimental to resource protection, or create problems in the final decision process.

Article III

Jointly the Conservancy and Forest Service shall:

1. Develop study plans for administrative studies and priorities.
2. Plan incidental expenses to be reimbursed by the Forest Service.
3. Supplement reports with photographs for documentation.
4. Review the credentials of potential team members and agree upon their acceptance or non-acceptance.

Article IV

This Memorandum of Understanding will become effective as of the latest date of signature by representatives of each party. This Memorandum of Understanding may be changed at any time, by mutual agreement of the parties, such amendments to be incorporated in writing as appendices to this agreement. This Memorandum of Understanding may be terminated 60 days after the written request of either party.

April 1, 1988
Date

Ronald G. Abraham
for Forest Supervisor
Hoosier National Forest

April 6, 1988
Date

R Keith Dunslop
President
Indiana Karst Conservancy, Inc.

BATWING CAVE - MAPPING PROJECT
by Keith Dunlap

Independent of the gating of Batwing Cave, the DNR (Scott Johnson) has asked the IKC to conduct a geometric survey of the cave and produce a detailed map. The map will be used during the bi-annual census to document the locations of hibernating bats in the cave. In the last census, there was confusion as to whether some areas of the cave were included in previous census. This would produce false fluctuations in the population data if the same areas are not consistently counted. Also location documentation could be useful for such other long term studies as correlating hibernation locations relative to the entrance as a function of outside winter temperatures.

The only known published map of Batwing was done by Bill Steele in 1971 (and the DNR did not have a copy of it until last year). While the map gives a general flavor of the cave, it lacks much of the necessary detail of the cave, especially in the lower level. There are also several known smaller passages, plus some high leads not included on this map. I also question the vertical control of the previous survey.

The dates selected for the survey trips are July 23rd and 24th. I have volunteered myself as the coordinator of this project and have already contacted several experienced surveyors/IKC members to assist. Other cavers, preferably with surveying and vertical experience, are needed, but the number is limited by our permit and the practical limit needed for the task to be accomplished. If you are interested, let me know.



COON & GROTTA CAVES CLEAN-UP WEEKEND
by Keith Dunlap

The past two years, the IKC has sponsored a weekend project at these two cave just before their closure for the hibernation season (starting September 1st). So as not to break tradition, we plan to do it again with the promotion of the Third Annual Coon & Grotto Caves Clean-up Weekend. The date this year will be August 27 & 28 (please mark it on your calendar). The progress we have made the last couple of years have really improved the looks of these caves, but there is still spent carbide to be removed and graffiti on the walls to be wire brushed. Furthermore, in Coon, there are logs to be removed from the entrance; and at Grotto, there will probably be some minor repairs to the fence needed. Our signs at both caves will also require a little sprucing up (the squirrels seem to like to gnaw on them). One final item we hope to accomplish is the installation of an additional routed informational sign at the pull-off on Spicer Lane.

So plan to attend. Both caves are very enjoyable, interesting, and well worth a visit (they are personal favorites of mine). Take this opportunity to have some fun, fellowship, and to do something worthwhile.

BUCKNER CAVE RENOVATION PROJECT
(YES, ANOTHER CLEAN-UP ANNOUNCEMENT)

by Mike Miessen

The Buckner Cave Renovation Project continues. This epic saga is unfolding at an ever increasing rate plummeting into the future. I can hear you asking yourself - "So what?". Well, I don't know, *BUT*, at least you're not bored yet! The reason I say that is because if I had started off by saying what a wonderful success we have been (I reserved that for my other article in this issue), you would have fallen asleep thinking, "Oh yea, I've heard that one before". Well, I don't think I can fool you about our successes and failures. We have suffered both as time continues to peel back our skin and allows us to examine more closely those problems we seek to absolve.

So again you find yourself asking, "What's Miessen Talking about?" Well, I could tell you that by having everyone into organized caving in Indiana show up for the semi-annual clean-up trips into Buckner Cave would solve all our problems; OR, would you rather hear me say that an effort to get NSS members to visit Buckner during the year, providing personal contact with those individuals visiting on a more casual basis has been a big success. Maybe I should tell you that through the efforts of the masses, justice has been served and we can all rest easy from now on!

I have to admit it sounds good to me. I could just lay back and all would be well. Cool, Relaxed, Calm, A S L E E P.....

OK, OK, Its not all that easy I know, but golly it sounds nice not having to do any thing. But then, Naw, that's boring. Not the kind of thing I as a caver like to do for long. After all, that's what we go caving for, something to do. So this is your perfect opportunity to have something to do. Besides I need the help. I go to Buckner almost every weekend. While I am there, I try to talk to everyone I meet, finding out where they are from and informing them of the possibility of a caving club in their area. I talk to them about conservation and the project. I ask them for their address and promise them more information on caving. This is easy to do and provides them with the feeling that people who care are present at the site. Besides, I've met some nice people at Buckner.

Please come to the next Buckner Cave clean-up. It is scheduled for October 1st & 2nd. This has the possibility of turning into a real good time. Expect a party that evening featuring a cook out around the campfire. Bring your lounge chairs and help me provide an example of high level relaxation techniques. Many of you were not at the last clean-up and missed out on the fun. Don't make that mistake again, come and see for yourself how the project has come along.

THE BUCKNER CAVE RENOVATION PROJECT

EXPERIMENTS IN CONSERVATION STUFF, ONE YEAR LATER

by Mike Miessen

As has been reported in past issues of the *Update*, much has occurred out at the Buckner Property in the past year. Things look much better (at least above ground). Our actions so far seem to have been effective and appreciated. And contrary to predictions, nothing that has been installed on the property has been destroyed.

This past year there were four "official" Buckner Clean-up weekends, with good participation by interested organized cavers. Several more will be scheduled in the upcoming year.

And the BUCKNER CAVE RENOVATION PROJECT continues in between these work weekends, although most of the things that are happening are done in a rather quiet way. The changing of the register and collecting money from the donation box only takes a few moments each weekend and is not a very big event. The donations vary in their amount depending on the weather. Most of the donation money is being put into savings to be spent on property improvements such as signs, trail improvements, and the building of a shelter. The remainder, along with money from the IKC, is spent on stationary supplies, copying, and postage.

Much of my time on this project has been spent corresponding with people who have been caving in the valley and wish to learn more about caving in Indiana. This is the most common question I respond to and as a result, I have put together a computerized form letter to handle this particular situation. The process is now rather automated, needing only the persons name, address, and the nearest club to them. This results in a customized letter complete with a paragraph about the local grotto.

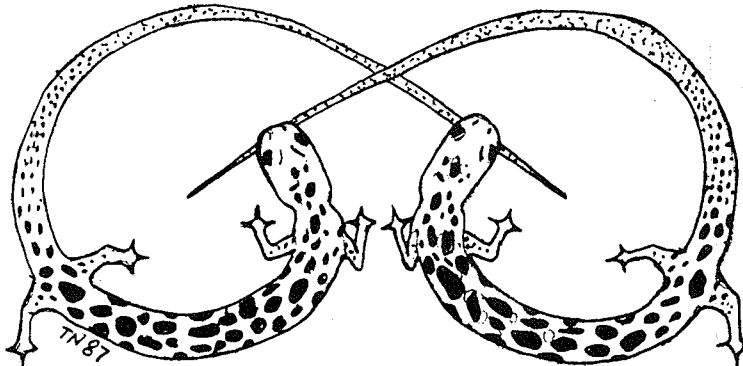
I am currently expanding and developing responses to cavers from out of state that will include information about clubs and activities in their area. Some of the correspondence which we receive from outside Indiana comes from NSS members who read about the Project in the *NSS News*. They are very enthusiastic about what is going on with Buckner and usually offer their assistance. This past summer, NSS cavers from the Chicago area spent their vacation at Buckner participating in clean-up efforts.

In my other correspondence, I have been contacted by several Boy Scout troops and outing clubs as a result of our conservation efforts in the valley. In each case, I have tried to organize their trips into clean-up trips. I respond with as much information as I can about the IKC and the NSS including several pamphlets about the different organizations.

I hope that more grottoes will participate in the planned clean-up weekends, or organize their own. It is encouraging to note, according to the register, that more NSS affiliated cavers are making an appearance at Buckner. This is a good thing and I hope that all those who go to Buckner will do what they can to talk to those unaffiliated cavers they encounter and spread our conservation message. Most of all, we should set an example and make an effort to be seen picking up trash whenever we are there. This is a good conservation practice wherever you may be.

No matter what it is we do, as long as it is of a positive nature, it will benefit the valley and caving in general. Anytime someone sees us picking up trash or reads our material, they are made to become more aware of the situation. Hopefully, they will become more responsible, more caring of the caves they enter, here and elsewhere.

I think that the project has done some good. The area looks much better than it did. A lot of correspondence has been sent, and I have seen some positive changes take place because of this.



MHG Newsletter, May 1988

WHY MEMBERS SHOULD ATTEND DIRECTORS' MEETINGS by Cindy Riley

Lately, very few members have attended our directors' meetings. As a director, this makes my job more difficult for two reasons. Since little or no input is available from members, I am forced to make decisions (i.e., vote) solely on my opinion of an issue. This worries me, given the fallibility of human nature. Anyone's judgment is a lot sounder when she/he has the opportunity to hear diverse viewpoints on a subject under consideration.

Since so few members attend meeting, we directors are pretty much left to ourselves for decision making. In the past, this has sometimes meant that whoever talks the loudest or the longest on a subject get her/his way. This has allowed personal opinion to bias voting. More balanced discussion and decision making occurs with more input. And more input is only possible if *you* attend meetings and voice your opinion on important questions facing the IKC.

To the members who have attended meeting recently, thank you! We appreciate you making our lives a little easier and more balanced.

HOOSIER NATIONAL FOREST MANAGEMENT PLAN UPDATE
by Keith Dunlap

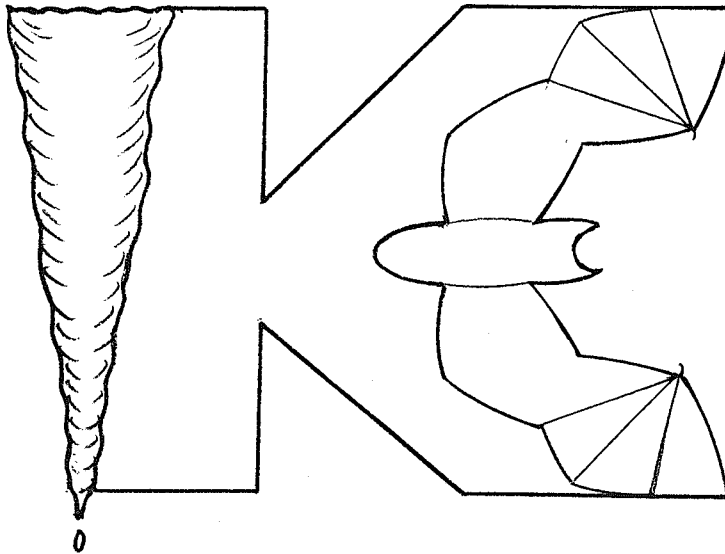
While the IKC's specific involvement with the Hoosier National Forest is directed towards protecting the caves on this 188,000 acres of public land, most of our members are also concerned with the overall forest management plan. As has been noted previously, the original management plan was appealed by several groups soon after it released in September of 1985. The main environmental objections to the plan were its allowance of timbering on essentially all of the forest land and the reliance on clear cutting as the principal harvesting method. The appeal caused a review by the Chief of the Forest Service, Dale Roberson, who agreed with the appellants and suspended the the proposed management plan in July of 1987. The suspension was to provide time for amending the plan to a more equitable and environmentally sound one. The forest management started the amendment process by holding two public meetings in October and December (as reported in the last *Update*, several of our members attended this latter meeting). An eighteen member negotiation team (made up of the various interests) was then organized and has been developing alternatives for the amended plan. A status of their activity was given at a public meeting held on May 12th in Bedford. This meeting was well attended by several hundred people. The IKC/caving community was represented by Keith Dunlap, Tom Rea, Kathy Hornaday, Tem Hornaday, Kevin Strunk, and Jack Countryman.

The presentation started with a general acknowledgment by the current forest management that the original plan was flawed from an environmental standpoint and that changes were clearly necessary. The progress of the working group was summarized as one of mixed accomplishments. Many compromises were made, but there were still many unresolved items. At times, the "team" had made great progress; at other times, their discussions had turned into verbal attacks with members walking out (most often the timber people). The main items addressed to date were land use allocation (where to allow timbering), and harvesting methods (clear cutting verses other methods). Plans were for the committee to continue indefinitely, working on these and other items, but a general impression was given that the forest service had made up their mind on the current issues and that a new management plan may be soon forthcoming.

Members of the negotiation teams were then allowed to make brief statements. Most of the conservationists/preservationists on the team made well prepared, factual speeches. However, their opponents (mostly timber cutters who rape our public forests for their personal economic gains and view the forest only in terms of board-feet) used emotions and misrepresentation to try and bolster support for their side (they portrayed the environmentalist as uneducated tree huggers that wanted to take away their livelihood).

The forest service presented a proposed management plan that addressed the land allocation and timbering harvest concerns. In this new plan, *approximately 30% of the acreage would be set aside and protected from any type of timbering activity, a substantial improvement from the previous plan!* The remainder of the forest would be harvested in small patches (less than five acres in size) using a variety of harvest techniques, but with emphasis away from clearcutting. The areas designated as timberable would still have to undergo site specific environmental review. Thus, if there was a significant feature, such as a cave, determined to be on a tract proposed for harvesting, that tract or a part of it could be excluded from cutting (this is the main purpose of the IKC's Hoosier Forest Committee - to determine the location of the karst features in need of protection from surface activity).

Because there are such vast differences in options on how the Hoosier Forest is to be used and managed, there will never be a complete consensus on any plan. But from this conservationist's point of view, I believe the Hoosier Forest management's attitude has finally begun to lean in our favor. However, it is still very important that we continue to be visible and involved, *so do so!*



EVANSVILLE GROTTO CONSERVATION NOTES
submitted by Ernie Payne

Evansville Grotto members have made a real effort this past year to include some trash bags as part of grotto cave trips. Picking up some trash is not new; but forming the habit to include two or three bags on each cave trip was easy. This helps to remove that much more trash.

Currently, Don Shofstall and Tom Floyd represent the EMG on the Hoosier Forests Project Committee.

INDIANA KARST CONSERVANCY, Inc.
All Funds - Statement of Receipts, Expenditures, and
Changes in Fund Balance for the Quarter Ending 03/31/88

General Fund

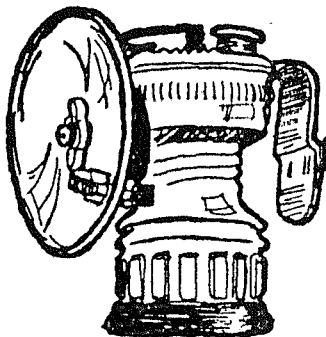
Beginning Balance, 01/01/88		961.59
Receipts		
Dues	395.00	
Donations	51.250	
Interest	<u>14.41</u>	
Total Receipts		460.66
Expenditures		
Postage	54.00	
Postage, bat books	14.98	
HEC dues	20.00	
ACCA dues	15.00	
Secretary of State filing fee	10.00	
Mailing labels	7.29	
Envelopes	2.39	
Receipt book	<u>1.56</u>	
Total Expenditures		(125.22)
Excess to Fund Balance	<u>335.44</u>	
Ending Balance, 03/31/88		<u><u>1297.03</u></u>

Buckner Fund

Beginning Balance, 01/01/88		280.32
Receipts - Donation	<u>25.00</u>	
Ending Balance, 03/31/88		<u><u>305.32</u></u>

HNF Fund

Beginning Balance, 01/01/88		35.00
Expenditures - Postage	<u>(9.27)</u>	
Ending Balance, 03/31/88		<u><u>25.73</u></u>
 Total Balance - All Funds, 03/31/88		 <u><u>1628.08</u></u>



INDIANA KARST CONSERVANCY
MINUTES OF THE ANNUAL MEETING

Indianapolis, Indiana
Indiana World War Memorial
March 26, 1988

Directors attending: Keith Dunlap
Cindy Riley
Lynn Miller
Tom Rea
Mike Miessen
Kathy Hornaday

Directors absent: Noel Sloan

The meeting was called to order at 10:20 a.m. by Keith Dunlap.

1. Name tags, agendas and a sign up sheet were passed around. Introductions were made. In addition to the Directors, 16 members and one guest were present.
2. Elections were the first order of business. Keith Dunlap, Kathy Hornaday and Cindy Riley were all re-elected to their respective positions. With membership at 71 individual members, five Directors are needed. Nominees on the mailed ballots were George Brutchen, Dave Haun, Mike Miessen, Lynn Miller, Ernie Payne, Tom Rea, Noel Sloan, Kevin Strunk. Rusty Riley was nominated from the floor. Rea, Miller, Miessen, Sloan and Payne were elected.
3. Keith gave a brief report of the year's accomplishments. This has been published in the March *Update*.
4. Lynn Miller suggested that next year's election process be improved, primarily by the use of pre-printed ballots.
5. Kathy Hornaday reported on the work of the Hoosier Forests Project Committee, as published in the *Update*.
6. Kevin Strunk reported that, according to Jeff St. Clair, the appeal of the Hoosier National Forest Plan may be resolved this spring. The timber industry has reportedly made major concessions. Of concern to cavers, however, is the fact that the Tincher Hollow, Tincher Lake area may be subject to more intensive timber harvesting than had been proposed earlier. This is the area with the heaviest concentration of known caves in the Hoosier. The Mogan Ridge area is the biggest remaining issue before the Working Group. This area does not have surface limestone, but does have some sandstone, including shelter caves. The use of clearcutting as the primary method of timber harvesting has been minimized in the overall planning.

(continued...)

7. Keith gave a brief report on the history of Batwing Cave as a major hibernaculum for Indiana Bats, and discussed the IDNR gating project. The IDNR has requested assistance from the IKC. Keith identified at least two reasons for the IKC to support this project: conservation of the bats, and visibility/credibility with State Agency people so that we are identified as a source of information and feedback on other caving issues.

Scott Johnson discussed the March 12 trip to Batwing, and the decision making process that was followed. June 16-19 has been set as the date for the installation of the gate. Before that date, the site must be prepared in the cave, and materials must be delivered to the entrance. Because IDNR does not want to develop a noticeable trail, materials will be hand carried, if at all possible.

At some point, an accurate, up-to-date map of the cave needs to be made.

At a minimum, volunteers will be provided with free camping, including toilets and showers.

Hank Huffman provided some additional history on the dedication of Batwing and Twin Domes as Nature Preserves, and the resistance on the part of IDNR to revising the articles of dedication as setting a politically dangerous precedent.

Tem Hornaday requested OSHA considerations for the work in the cave, and asked that the IKC send a letter to Jim Ridenour seeking IKC input into State cave policy, especially in regard to closure and restrictions.

Lynn Miller moved that the IKC support the Batwing gating project. Mike Miessen seconded. A straw vote of the members present indicated unanimous support, as did a formal vote of the Directors.

8. Tem Hornaday moved that the IKC seek to have IDNR establish a Department-wide cave policy, with IKC input into the development of the policy, and the management of the caves. Tom Rea seconded. Kevin Strunk raised the question of whether the State needs to establish regulations regarding citizen input and cave management. The motion was restated, that the IKC contact the Division of Nature Preserves to raise concerns about current policy, and seek assurances that our concerns and input will be addressed in future decision making. In a straw vote of the members, there was one no vote, one abstention, and the balance were in favor. The vote of the Directors was one no, three abstentions and three in favor. Tem Hornaday is to draft a letter for review by the Board of Directors.
9. Keith reported on his conversation in January with Mr. Hancock. He likes what we have done on the property, but is still concerned about the amount of unregulated traffic. He made it clear that we **DO NOT** have authority to grant permission for people to cross the property to get to Salamander Cave. Trips to Salamander will have to seek permission from the landowner to come from Rice Road. It

was suggested that the IKC make another attempt to work out a management/access policy with the owner(s) of Salamander Cave. Mr. Hancock has signed the limited power of attorney, giving the IKC authority to prosecute trespassers.

The wording on the proposed sign will be modified to clarify that the IKC cannot grant access to Salamander. Improperly parked cars will be given warnings, cave vandals will be prosecuted.

Shaft Cave still needs a fence!

10. Mike Miessen reported on the BIG's Buckner Project. The next work weekend is scheduled for April 16, with work being done primarily in the cave. Mike has written a form letter to respond to the many requests for information. The letter refers people to the NSS, and to the nearest grotto that Mike can locate. Buckners is still getting an average of 200 - 250 people a week, at least on the property, if not in the cave. A future work weekend will probably be scheduled in July, for above ground work.
11. New projects suggested included Sullivan's and Devils Graveyard. Sullivan's is closed, except by special permission from Mrs. Owens (given to cavers she knows). Tom will investigate her willingness to sell the cave. Devils Graveyard is still of interest to the NIG, but the IKC needs to look into ways to help protect the cave. There has been an increase in trash in the entrance area, and the possibility of a gate needs to be considered.
12. Keith asked if the members had any suggestions as to changes in direction, publications, etc. The Directors are interested in hearing of suggestions or concerns. The only discussion was about meeting times and places for the quarterly public meetings. The Next meeting was set for Bloomington, at 7:30 p.m. on June 17.



INDIANA KARST CONSERVANCY
MINUTES OF THE BOARD OF DIRECTORS MEETING

Indianapolis, Indiana
May 13, 1988

Directors attending: Tom Rea
Lynn Miller
Mike Miessen
Keith Dunlap
Kathy Hornaday
Cindy Riley

Directors absent: Noel Sloan
Ernie Payne

Others present: Scott Fee
Angie Manon
Jackie Allen
Sherri Miessen
Jane Miller

The meeting was called to order at 7:50 p.m. by Keith Dunlap.

1. Keith reported on the Batwing Project. Site preparation is scheduled for May 14, with the actual gating still on line for June 16-19. There will be free camping at Wyandotte Woods, and a possibility of reimbursement for mileage and meals.
2. Kathy reported on the progress of the Hoosier Forests Project. The MOU was signed April 1 by the Forest Service, and April 6 by Keith. The committee is working on setting priorities for verifying cave locations. Kathy is seeking a meeting with Forest Service staff to work out logistics: report forms, procedures, releases, volunteer agreements, etc.. A position paper was sent to the Working Group, which was unanimously accepted. The Directors approved the draft of the release form which will be shared with the Forest Service.
3. Membership renewals need to be acknowledged. Kathy will send letters and cards this month. Cindy was given the membership list, and asked to confirm the information, or send corrections to Kathy.
4. Cindy reported that the treasury has a balance of \$1,672.92.
5. The NIG wants to pursue protection of Devil's Graveyard. The Directors agreed to assist with this project. NIG will be sent a copy of our NSS grant proposals, and the IKC will match any NSS grant, up to the cost of the gate.
6. Mike reported on the Buckner Project. Steps have been built where the trail is steep, but further trail maintenance needs to be done. The trash has been removed, but there is no indication that Dick intends to prosecute. The plans for the shelter are still moving along. The next organized clean-up will probably be in September.

7. Because a counterfeit letter of permission has been observed in cars parked at the Hancock property, the Directors decided to have Keith countersign all permission letters in red ink. Tom will draft a new letter, which will be the "official" letter of permission. It will include the phone number of the conservation officer(s) to be contacted if people are found violating the closure period for Coon's and Grotto.
8. It was decided to table further action in regard to the correspondence with Doug Love's attorney. Noel is to follow up, and Keith will mention to Mr. Hancock what has been going on, especially since Love's book specifically suggests that landowners not be contacted for permission.
9. Lynn and Jane Miller were appointed to a By-Laws Committee, to improve the election procedures for next year.
10. The IKC will donate 2 or 3 framed photos for Cave Capers door prizes. It was decided not to hold a raffle, since there is no specific need for extra funds at this time.
11. The IKC will have brochures at Convention, in addition to the paper being presented at the Symposium on Management of Privately Owned Caves. There was some discussion of preparing a travelling display, similar to the one used by the MKC, but it was decided that there was not enough time to prepare one for this year that would be up to the standards we want.
12. Kevin Strunk has volunteered to chair the Scientific and Research Committee. The Board asked for a specific proposal of how he sees that committee, and what role he would expect to take as chair.
13. There are tentative plans for the annual clean-up at Coon's and Grotto to be held August 27-28. The fence at Grotto is in need of repair (again), and the first group in Coon's this spring found beer cans in the cave.
14. The next public meeting will be June 17, in Bloomington. Hopefully, this will encourage people to continue South after the meeting, to work on the Batwing Project. Keith will send out post card reminders.
15. The deadline for articles, reports, etc. for the next *Update* is June 3, with June 1 preferred.
16. The sign for the Hancock property is in progress. The lock on Wayne's is due to be changed. Mike is preparing a list of people on record as having signed releases. He will be entering this data on his computer, and will keep the list updated as much as possible, with cooperation from others.

The meeting was adjourned at 9:53 p.m.



*** NEW MEMBERS ***

(20MAR88 thru 08JUN88)

John Ahlberg
19054 Sherman Street
Lansing, IL 60438

Kenney Carrigan
9955 Zionsville Road
Zionsville, IN 46077

William B. Combs
112 W. Jefferson Street
Crawfordsville, IN 47933

Jeff Jackson
5548 US 27 North
Richmond, IN 47374

Sherri Miessen
3541 Festive Drive
Bloomington, IN 47401

William Maul
327 Bingham Street
Lansing, MI 48912

Jeff A. Secor
3417 Hazel Lane
Hazel Crest, IL 60429-1611

Great Lakes Adventure Club
c/o 605 Schuring, Apt D
Portage, MI 49002

KNOWN ADDRESS CHANGES

(PLEASE advise the
Secretary of changes)

Rusty Riley
2023 N. Moreland
Indianapolis, IN 46222

Jeff Cody
1250 E. King Street
Franklin, IN 46131

Glenn Lemasters
3947 Cherry Glen Drive
Indianapolis, IN 46227

Nicholas W. Noe
507 Valley Drive East
Chittenango, NY 13037



Ken Henderson
©The Northeastern Cover 7(4)105

"ON THE BUBBLE"

(drop list if dues aren't paid by 01JUL88,
PLEASE note and advise the Secretary of corrections)

Mike Miessen
3541 Festive Drive
Bloomington, IN 47401

Chris Blackwell
P.O. Box 454
Chokoloskee, FL 33925

William E. Goshen, Jr.
5656-B Brendon Way, West Drive
Indpls, IN 46226

David E. Haun
2711 Maynard
Indianapolis, IN 46227

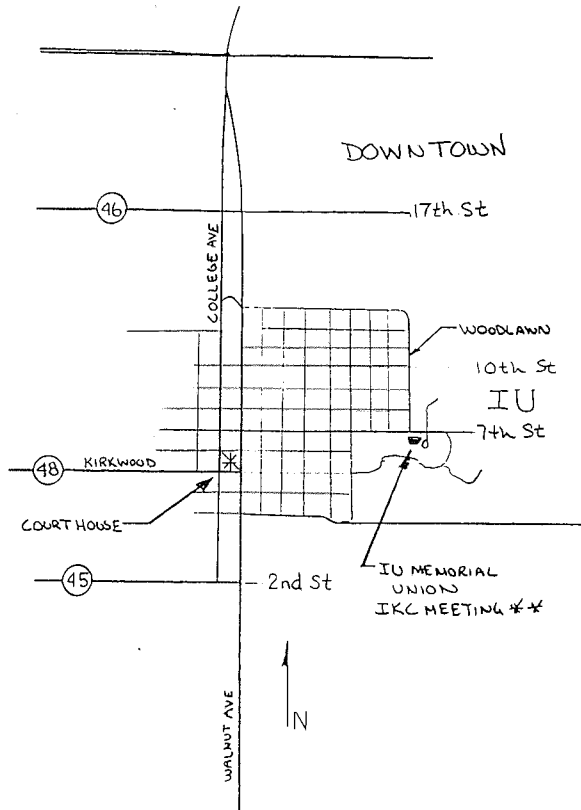
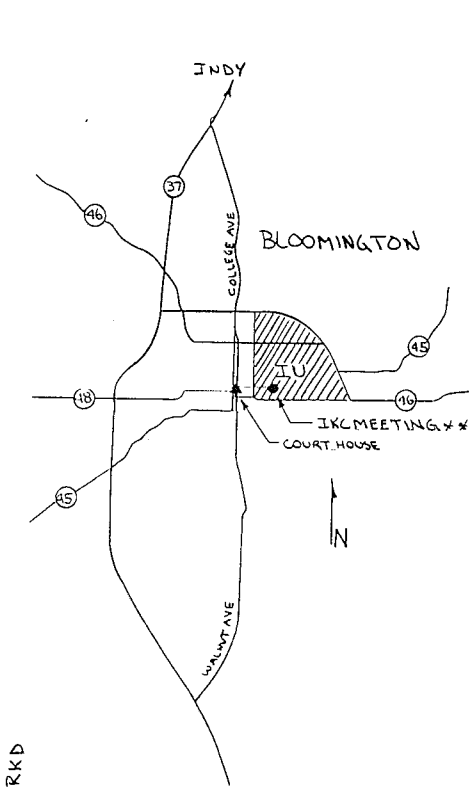
Rusty Riley
2023 N. Moreland
Indianapolis, IN 46222

Richard H. Cole, Jr.
2904 Moore Road
Muncie, IN 47202

MAP AND DIRECTIONS TO THE IKC QUARTERLY MEETING

FRIDAY JUNE 17th, &:30 PM

Head towards downtown Bloomington to courthouse. Take Walnut one block North to 7th Street. Head East on 7th for approximately eight blocks. Just past Woodlawn Avenue (a four way stop), turn South (right) into the Memorial Union's Parking Lot. Enter the Union through the entrance on the circle drive. Proceed in and up the staircase to the mezzanine level. Continue straight past the elevators, then left down the hall. Alimuni Room is on left as the hall turns right.



INDIANA KARST CONSERVANCY, INC: PO Box 461, Plainfield, IN 46168
I would like to help the IKC conserve Indiana's unique cave and other karst features.
Enclosed is:
\$ _____ for IKC membership at \$15 per year (dues expire March 31st each year, you may pro-rate @ \$1.25/month, if you wish).
\$ _____ donation to the general IKC fund.
\$ _____ donation restricted to a specific IKC project. Please specify: _____
_____ I know an area worthy of protection. Please contact me.
_____ I would like to volunteer to help.
Name _____
Address _____
City/state/zip _____
Suggestions for other interested persons (names and addresses please):

Make checks payable to the INDIANA KARST CONSERVANCY and mail to the IKC TREASURER, PO Box 461, Plainfield, IN 46168. The IKC is an IRS recognized 501(c)(3) non-profit organization with membership dues and donations tax deductible. A cancelled check is considered an acceptable receipt, but if you wish a separate receipt, check here []



BATS



NEED FRIENDS

THE INDIANA KARST CONSERVANCY, INC.
PO BOX 461
PLAINFIELD, INDIANA 46168