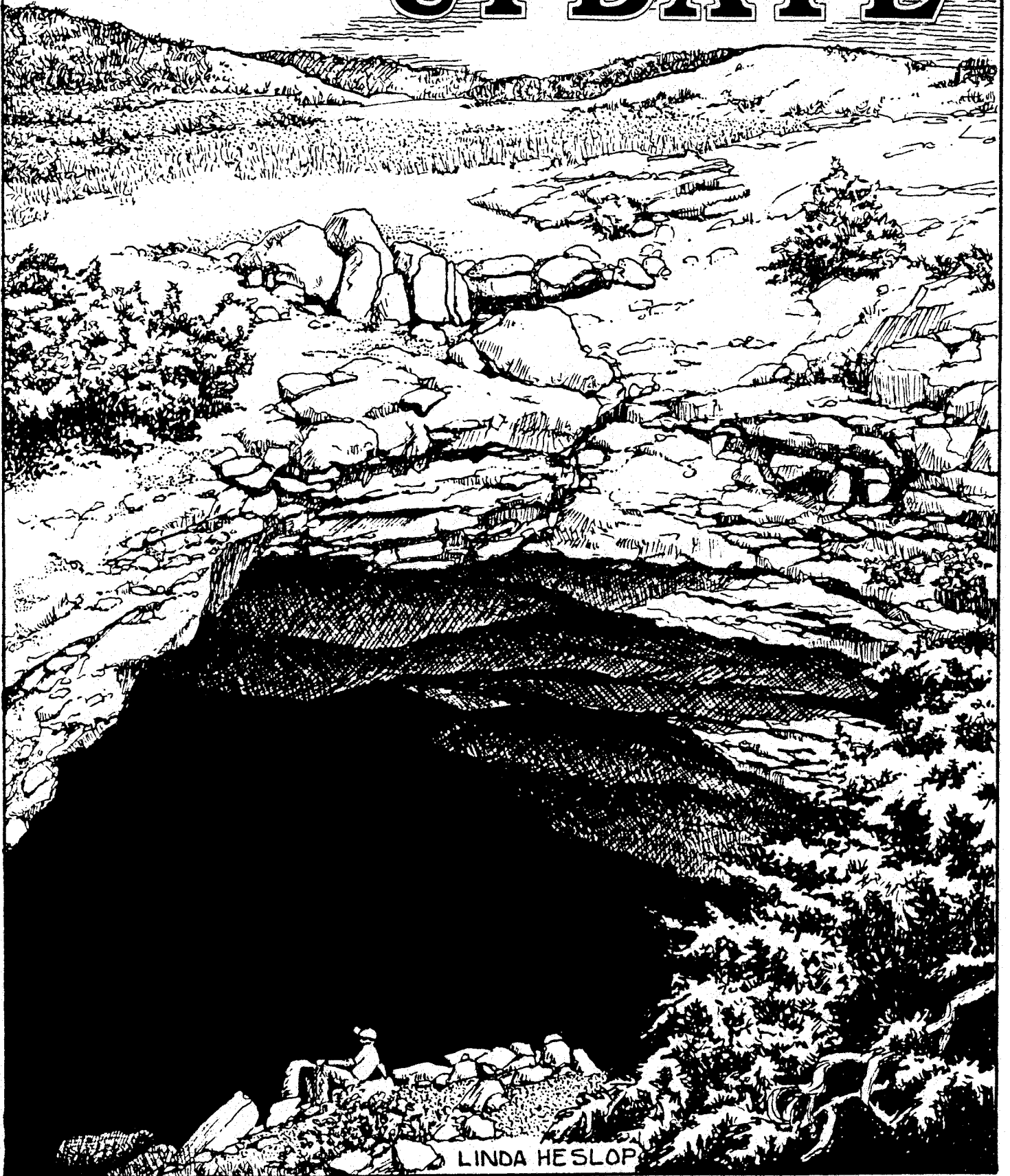


TKC

No. 18 - September 1990

UPDATE



LINDA HESLOP

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 *****

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 Grotto Cave/ Mike Miessen (317) 897-1668
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Cover artwork by Linda Heslop, Horsethief Cave, Wyoming

Publishing facilities courtesy of the Central Indiana Grotto; Editor and Publisher Keith Dunlap, Assistant Angie Manon.

QUARTERLY MEETING/COOKOUT REMINDER

**SATURDAY, SEPTEMBER 29th, 10:00 AM
INDIANAPOLIS, INDIANA
MILLER'S ACRES, 4020 SOUTH RURAL**

The quarterly meetings are for members and other interested persons to have an open forum for talking about 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 meetings are informal, and everyone is encouraged to attend and participate.

Following the meeting (approximately noon), the Officers will be hosting a cookout. This will hopefully allow members and their families to become better acquainted with others interested in cave/karst conservation. The cookout will be held rain or shine; please bring lawn chairs. Additional salads or desserts would be appreciated, but are strictly optional.

Preliminary Agenda Items: Brief recaps of summer restoration activities; Committee reports; HNF Management Plan, cave management plan, inventorying status; Bat projects; IKC managed caves status; HEC Congress and HEC business meeting; Devil's Graveyard activities; Proposed bylaw revisions; and more!

Meeting directions: See inside back cover.

EVENTS CALENDAR

- 29 SEP = IKC QUARTERLY MEETING, Indianapolis (see above).
- 29 SEP = IKC MINI-WORK AFTERNOON, Bloomington (see page 3).
- 12-14 OCT = SPELEO-RENDEZVOUS, Bloomington (see page 7).
- 20 OCT = DEVIL'S GRAVEYARD GATE INSTALLATION (see page 5).
- 20 OCT = HEC CONGRESS, Indianapolis (see page 4).
- 21 OCT = HEC ANNUAL BUSINESS MEETING, Indianapolis (see page 4).
- 20-21 OCT = MKC WORK WEEKEND, Michigan (contact Tom Rea).
- 28 OCT = 1992 NSS CONVENTION PLANNING MEETING, Indy area (contact Scott Fee)
- 09-11 NOV = NSS BOG MEETING AND RELATED ACTIVITIES (see page 5).
- 08 DEC = IKC QUARTERLY MEETING, Bloomington (tentative).
- 09 DEC = IKC/CIG ANNUAL WAYNE'S RESTORATION TRIP.

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 the *IKC Update*, PO Box 461, Plainfield, IN 46168.

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RAMBLINGS FROM THE PRESIDENT...

The subject for this issue's column deals with a simple and obvious suggestion made by Larry Mullins (digressing somewhat as he would - I have found Larry to be a good source of ideas and a very interesting and well traveled person to talk with - if you have not yet had the pleasure to meet and talk with Larry, you should make a point to do so). Anyway, his proposal is that *all* cavers should *always* carry wire brushes with them to remove non-historic graffiti in what ever caves they might visit. The premise is that all vandalized caves start with just one thoughtless act, that tends to "encourages" other others to do the same. This quirk of human nature is seen everywhere, from carved initial in trees, to the toilet stalls in restrooms. Larry's best example and first hand experience with this phenomena was working for the Forest Service with the responsibility of maintaining picnic areas. He would notice that as long as you kept the picnic tables painted and without graffiti carved in them, they would stay that way for a long time. But as soon as one person would carved their initials in the table, the table seemed to be "fair game" and within weeks, the entire table would be defaced. His solution was to check the tables as often as possible, occasionally replacing any carved on boards, and always keeping the tables painted. This pro-active maintenance was considerably less than the previous re-active maintenance. This worked he theorized for several reasons. First, most people are not "creative" enough to think about carving on the tables, but if they see someone else's initials, that sparks their imagination and they think it is a good idea and will do it too. Second, no one wanted to be the first person deface some one else's property, but if it is already defaced, what's one more set of initials. Finally, keeping the tables maintained shows that some one cares, so the would be "carvers" are more likely to respect the tables because some one is showing stewardship for the tables.

In every aspect, caves can be analogous to the picnic tables in the above example. Most visitors will respect caves that have not been vandalized, but feel compelled to add their initial to the back of the cave if everyone has already done it. To take this to an extreme, there seems to be a fierce competition among some Buckner "cavers" to see who can create the largest "artful" vandalism (there is a five by twenty foot green monster painted on the wall near the volcano room).

The IKC and others have taken on projects in a few heavily vandalized caves, but that still leaves over 2000 that are not getting any direct attention. In order for cavers to make any real long term conservation progress, we must start by nipping the vandalism problem in the bud in these caves. So as we go caving, where ever it might be, we must make an asserted and conscious effort to remove these "seeds" of graffiti from the cave walls, so it will prevent the little known, "almost pristine" caves of today from becoming the Buckner caves of tomorrow.

- *Keith Dunlap*

PS - Grottos that have "Check Lists" for beginning cavers should add a wire brush to the list - what better way is there to emphasize conservation to a first time caver!

IKC MINI-WORK AFTERNOON

Following the September 29th Quarterly meeting and cookout, a short afternoon trip is planned to Bloomington to make needed repairs out at the Hancock Property. The planned activities entail resetting three cable posts and two sign posts along Spicer Lane that have been vandalized. Two or three volunteers would be appreciated and the project should not take more than a couple hours, plus travel time. Contact Keith Dunlap if you are interested in helping.

HEC CONGRESS 90

TOWARDS A SUSTAINABLE SOCIETY: ORGANIZING FOR SURVIVAL

by Jane Miller

The Hoosier Environmental Council (HEC) will hold its annual Congress on Saturday, October 20th at the Turners Athenaeum (401 E Michigan St) in Indianapolis. This year's Congress promises to be exceptionally good with its focus on organizing and maintaining a sustainable society.

Workshops on the Ecology of Indiana, Sustainable Development, Energy and It Ashes, the Population, the Culture of Garbage, Organizing Effective Grassroots Action, and two children's workshops will use national and local experts to focus on reversing environmental degradation in Indiana. The keynote speaker will be Scotland's George McRobie, the father of the sustainable development movement and author of *Small is Possible*. Other speakers will include Joseph Collins, Co-founder of the Institute For Food and Development Policy; Neil Seldman, President of The Institute For Local Self-Reliance; Pat Baldi, Director of the Population Program for The National Audubon Society; James Aisala, Policy Analyst for the Institute For Sustainable Agriculture; and Michael Totten, energy expert and Administrative Assistant to Congresswoman Claudine Schneider. The luncheon speaker will be Senator Richard Lugar, and the dinner speaker will be Governor Evan Bayh. The after dinner entertainment will feature the Tim Brickley Quartet for three hours of music and dancing.

This Congress will leave attendees with anger, some hope, and a commitment to make *at least your* personal contribution to solving environmental problems. It is strongly encouraged to attend and will be a day well spent. Contact the HEC (317-923-1800) for more information or registration materials.

[ed - The prepaid registration fee is \$25 for the daytime Congress including lunch, \$15 for the Dinner event, or \$35 for both (at the door fees are \$28, \$18, and \$45, respectively). The IKC will be sponsoring a booth at the Congress and will have our karst ground water/cave fauna display setup. Susie Sweeney has volunteered to coordinate this effort and represent us at the booth, but additional volunteers would be appreciated (contact Susie at (317) 253-5395).]

HEC ANNUAL BUSINESS MEETING

by Jane Miller

Following the Congress on Saturday, The HEC will hold its Annual Business Meeting at Holliday Park on Sunday, October 21st. At this meeting, HEC's leadership will receive annual reports, approve an Action Plan for 1991, and elect its Directors for the upcoming year. As a member organization, the IKC is entitled to one voting delegate. While the Business meeting is not as stimulating, perhaps, as the Congress, attending is an interesting and informative experience. If you would like to volunteer to serve as the IKC representative, please contact Keith Dunlap or myself.

In previous years, Lynn & I have had the opportunity both to attend the Congress and the Business Meeting. We have learned a great deal, been frustrated and somewhat inspired, and become acquainted with some delightful, dedicated, and interesting people. Schedule conflicts preclude us from attending this year. Why not give serious consideration to going?

THINK ABOUT IT!

NEWS BRIEFS...

- The Eastern Indiana Grotto, with support from other Indiana grottos, will install a gate on Devil's Graveyard. This action was prompted by numerous reports of vandalism in this "classic" Harrison County cave. The gate will be a "Sullivan's" design to allow unrestricted air and water flow. Access for organized cavers should not change. The Ohio Valley Region has allocated \$100 for the project with funding pending from the NSS and the IKC. Site preparation will probably be performed on the weekend of October 6th, with the actual installation scheduled for October 20th. Volunteers are needed for both days - contact Tom Reynolds (317) 873-2725 for more details.
- The Bloomington Indiana Grotto is pursuing the feasibility of controlling access to the Blair Cave System. Vandalism and safety concerns are the main reasons, as "spill-over" from Buckner Cave is increasing. Negotiations with the land owners are underway and preliminary work is being planned. One aspect of the project is the determination of the entrance(s) used by the *myotis lucifugus* (little brown bat) colony which hibernates in the cave. This will be done with the assistance of Scott Johnson of the DNR through the utilization of a night vision scope to view the bats' activities at the entrances after dark this fall.
- The NSS Board of Governors will hold their fall meeting in Indianapolis on Saturday, November 10th, starting at 9 AM. The meeting will take place downtown at the War Memorial and is hosted by the Central Indiana Grotto. The BOG meeting is an excellent opportunity to see how the NSS governing body functions. There will be a "howdy" party Friday night as well as a Saturday night social gathering (both to be hosted by Tom Rea, starting at approximately 7 PM) to allow NSS members to meet and communicate with their Directors. Sunday the Directors plan to travel to the ACCA's Cave and Karst Center in Horse Cave, KY. Participation in all these events is strongly encouraged. For further details, contact Scott Fee (317) 885-8759.
- As was reported in the last issue of the *Update*, a consulting firm studying potential routes for the SW highway corridor connecting Indianapolis and Evansville contacted the IKC for cave locations that might be affected by the project. The IKC referred the consultant to the Indiana Cave Survey which originally provided approximately 400 known cave locations in the proposed routes. An additional 30 locations were provided as further alternatives were considered. According to Bill Baus, ICS president, the consulting company seems genuinely concerned about mitigating/avoiding any potential damage to known karst features. As the proposed route alternatives narrow, additional information will be provided.
- The afternoon before the June IKC Quarterly meeting in Bloomington, several volunteers (Keith Dunlap, Angie Manon, Chris Carpenter, Ernie Payne, Kent Wilson, Tom Rea, Larry Reece, and Eric Schmidt & family) met out on the Hancock property to perform a little maintenance work. At Mr. Hancock's request, a new cable and sign was installed across the path at the pull off to Grotto and Shaft. Also a sign was installed on the cable at the end of Spicer Lane. The wooden sign at Grotto Cave is slowly being eaten away by squirrels, so we installed sheet metal around the edges to impede their gnawing. We also repainted the sign, except for the letter [*which was done on a later date*]. The fence at Grotto was in good shape, but we did pile some rocks along one section to prevent people from sliding under, until something more permanent could be done. The wooden "NO PARKING" sign at the second pull off to Grotto was also "replanted" as someone had "uprooted" it [*it has seen been pulled out again, along with three cable posts*]. Ernie and Larry stopped over at Buckner to update/replace the information in the kiosk. Several others went over to the Wayne's gate to grease the hinges and oil the lock.

- ❑ Just as a reminder, Twin Domes, Batwing, Ray's, Jughole, Parker's Pit, Grotto, Coon, and Clyfty caves are posted as closed during the bat hibernation season (September 1st to March 31st). Furthermore, many of the caves are closed year around by their land owners. Responsible cavers have been honoring these closures, but other have not - so we should do our part to discourage would be violators. There are also the potential for cash rewards should someone be caught and prosecuted.
- ❑ The Bloomington Indiana Grotto requested and now has a second liaison to the IKC. In addition to Dave Everton, Anmar Mirza can now grant access to IKC managed caves, and communicate IKC information to the BIG. The rationale for a second liaison were principally a matter of backup access in the case of an emergency (Anmar is a primary contact on rescue call outs) and convenience for the Bloomington-based cavers.
- ❑ The DNR's non-game habitat poster series, featuring cave fauna as its first poster, is nearing completion and is expected to be printed later this year. Approximately 5000 posters will be printed and distributed as educational material primarily to schools via the DNR's Project Wild program.
- ❑ The IKC was awarded an honorable mention award in the 1990 NSS Graphics Arts Salon for its *Update* #12 cover. The cover was of a photograph by Greg McNamara who will receive the ribbon. Congratulations to Greg and thanks for submitting the photograph. As always, the *Update* is in need of original photos/artwork for covers, preferable related to Indiana caves. Contact the publisher if you would like to contribute.
- ❑ IKC member Janet Thorne has retired from the position of NSS Conservation Committee Chair. Her responsibilities have been assumed by Mark Laing (a former Indiana caver now residing in Florida). Mark can be contacted at 11136 Duncan Avenue, Seminole, FL 34642 (813) 392-3617. Janet will remain active on the Committee, serving as Director of Government Affairs Division, responsible for activities related to Federal and state governments.
- ❑ IKC sources have not been able to determine the current status of regulations for the Federal Cave Resource Protection Act, passed in 1988. The last anyone has heard, the regulations were in the approval process, but that was several months ago. The regulations (the actual language as to how the Act is to be implemented by the various Federal Agencies) have been in a constant dispute since the Act was passed. We will let you know something as soon as we know something.
- ❑ The second year of the *myotis sodalis* (Indiana bat) winter weight loss study will get under way soon with the fall "sampling" to be conducted at three hibernacula. The study, being funded by the DNR, hopes to show a relationship between weight loss and winter disturbance. The methodology to determine this association is basically to weigh a population of bats in the fall before hibernating, and again in the spring after hibernating, and statistically compare differences at the three caves with various levels of "natural" disturbances. Interested volunteers should contact Keith Dunlap.
- ❑ John Whitaker, professor of life sciences at ISU, has requested Indiana cavers to be on the lookout for banded bats in caves. As part of his summer habitat study, he has tagged several thousand bats (primarily *myotis lucifugus* and *myotis keenii*) in the past couple years. Knowing where these bats winter would also be of interest to him. Should you see a banded bat, record: the color of the tag, the tag number (if it can be obtained without disturbing the bat), the wing to which it is attached (left or right), any other identifying characteristics (relative size, fur color, size of ears, etc...), the date, the cave name and location, and location within the cave. Report your observations directly to Professor Whitaker (812) 237-2400, or to Keith Dunlap.

continued...

- ❑ The DNR has preliminary plans to remove the vertical bar type gate on Wyandotte Cave and replace it with a "bat friendly" style. Wyandotte is a major hibernacula for *myotis sodalis* with an increasing population since the prior air-restricting gate was replaced in the late 70's. The new gate will hopefully encourage and stimulate even greater utilization by the bats. The replacement will occur sometime next summer, and caver volunteers will probably be solicited to help, as was done at Batwing Cave in 1988. The *major* difference will be the simplified logistics because of the *easy* access to the cave's entrance.
- ❑ Two central Indiana computer bulletin boards now carry echo mail on caving. The purpose is to provide a forum where people may share their impressions and enthusiasm for subterranean activities. Both boards operate at 1200 baud, 8 bits, even parity. Neither require connect fees, but a \$10/year stipend is encouraged to cover expenses. To join or obtain more information on either or both echoes, connect by phone modem to the Ordovician Ooze BBS (317-636-7406, sysop John Hartman), or the Southside BBS (317-882-9330, sysop Brain Murrey). All aspects of caving may be discussed, except the location of cave entrances, since posting this information may encourage trespassing or abuse of the caves.
- ❑ IKC Director Tom Rea has a new home phone number, as does BIG liaison Dave Everton, please check the inside front cover for the new numbers.
- ❑ The long awaited IKC Special Reprint #4, Blatchley's *Gleanings from Nature*, is still on the back burner while your publisher attempts to upgrade the printing facilities currently being used. Realistically, printing probably won't happen until the end of this year due to other commitments on the publisher's schedule.

SPELEO-RENDEZVOUS

OCTOBER 12-14th

The "Speleo-Rendezvous" will be a weekend event to be held at the "Bent Arrow" cave supply shop grounds located on west Eller Road, Bloomington, Indiana. The Rendezvous, hosted by the *Indiana Scientific Speleological Association* (ISSA), will be an opportunity for persons interested in activities related to caving and climbing, to come together for the purpose of sharing knowledge, experience, and techniques with one another and to have a lot of outdoor fun in doing so.

Activities, such as a race through a cave [*editor's note - this is not an IKC supported activity due to conservation and safety considerations*], rope climbing challenges, and a map reading/compass course, are planned, along with demonstrations on rope climbing techniques, safety, and CPR training by "The American Red Cross". Biologists, geologists, and conservationists will be available for campfire discussions. There will also be opportunities to purchase equipment and supplies related to caving and climbing, as well as to sell and trade equipment that you wish to bring with you.

There will be space for primitive style camping on the grounds and your one time admission fee (\$10 adults, children under twelve free) will cover all three days.

The ISSA encourages group participation and support of this effort to bring together serious speleological groups in support of cave preservation, conservation, and safety.

For further information, contact the ISSA: c/o Bent Arrow Cave Supply Shop, 7888 West Eller Road, Bloomington, Indiana 47401.

HOOSIER FORESTS PROJECT COMMITTEE UPDATE

by Kevin Komisarck

The Memorandum of Understanding (MOU) between the IKC and Forest Service (FS) has been modified to reflect changes in the way cave studies will be performed, cave management plans will be written, and cave location information will be handled. Also an agreement between the IKC and Indiana Cave Survey (ICS) has been written to spell out such issues as proprietary rights to cave information and the transference of cave information to and from the ICS and Forest Service. *[both documents are reprinted, following this article]*

Some changes in the MOU reflect the desire of the Forest Service to actively direct the forest-wide inventory of karst resources. The Forest Service is recruiting volunteers from among cavers to participate in this program. Tom Rea has volunteered to act as liaison between the caver volunteers and Forest Service and to help Larry Mullins, the cave resource specialist on the Forest, coordinate the inventory program. In addition, the FS will attempt to train cavers interested in helping out in the biological, geological, and hydrological parts of the inventory. The exact mechanics of the inventory process have yet to be finalized.



The new MOU also states that the FS team which actually writes the individual cave management prescriptions will include a member of the IKC. In addition, the final management plan for each cave will be signed by both the Forest Supervisor and the IKC. This is an important and rare opportunity for cavers to be included in the decision-making process.

If anyone is interested in participating in the HNF inventory, contact your Hoosier Forest Project Committee representative, Tom Rea, or Larry Mullins.

[Editor's note: The IKC and the HNF have discussed organizing "cave inventorying work days" to serve as an additional catalyst in organizing volunteers. It is envisioned that these workdays would be publicized and promoted similar to our cave restoration work trips, and encourage strong grotto participation. While no specific dates have been finalized (due to Tom Rea being "on tour" with the Russian cavers), we will probably schedule at least one late this year, or early next year and see how thing go. In the meantime, those interested in participating should fill out the inserted form and return it to the Hoosier National Forest, 811 Constitution Ave, Bedford, IN 47421, or call Larry Mullins on (812) 275-5987.]

BE SOMEBODY...

BE A MEMBER OF THE

**KARST
ANALYSIS,
RESEARCH, AND
SURVEY
TEAM**

MOU-09-11-90-18

Memorandum of Understanding
between the
Forest Service-U.S. Department of Agriculture
and the
Indiana Karst Conservancy, Inc.
(As Amended August 8, 1990)

This Memorandum of Understanding is made and entered into by and between the Indiana Karst Conservancy, Inc., an Indiana not-for-profit corporation, referred to as the Conservancy, and the Forest Service, USDA, referred to as the Forest Service, under the provisions of the following:

Organic Administration Act of June 4, 1897 (16 U.S.C. 475), 36 CFR 294.1,

Volunteers in the National Forest Act (16 USC 558),

Federal Cave Resources Protection Act of 1988 (16 U.S.C 4300-4309, 102 Stat. 4546),

National Memorandum of Understanding (between the U.S. Department of Agriculture, Forest Service, and the National Speleological Society,

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. 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 caves and karst resources.

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

Definitions:

For the purposes of this agreement, the definitions found in Forest Service Manual 2356.05 shall apply.

Article I

Subject to the availability of funds, the Conservancy, through it's designees, shall:

1. Provide results of an IKC directed surface inventory of karst features, cave locations, inventory of cave resources, and information derived from a literature search for cave resource information for identified project areas upon specific request by the Hoosier National Forest Supervisor through the Forest Cave Resource Specialist.

2. Assist in the development and execution of the Hoosier National Forest directed systematic inventory and study of karst and cave resources on the Hoosier National Forest. Such support could include, but not be limited to, the provision of 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 will ordinarily 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 capabilities into the inventory team.

3. Establish a standing Committee, to be known as the Hoosier Forest Projects Committee, to be composed of representatives of interested Indiana caving groups including the Indiana Cave Survey, to encourage state-wide participation and input from the Indiana caving community.

4. 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.

5. Meet at least once annually with the Forest Service to exchange such information as may be pertinent to this Memorandum of Understanding.

6. Stipulate that 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.

7. Provide cave location and inventory data. Under an agreement between the Indiana Karst Conservancy and the Indiana Cave Survey, the names, location, and all inventory information for every cave known to the Indiana Cave Survey within the Hoosier National Forest Purchase Unit Boundaries will be provided to the Hoosier National Forest through the Hoosier Forest Projects Committee.

Each cave information sheet containing a cave location and associated name will be stamped, "Property of the Indiana Cave Survey provided under agreement with HNF."

The Hoosier Forest Projects Committee coordinator is responsible for the security and handling of this information. In this capacity this individual coordinates with the Hoosier National Forest Cave Resource Specialist in matters pertaining to cave file security.

The database of Indiana cave locations and inventory data provided to the Hoosier National Forest shall be kept current and updated with new information, including newly discovered cave locations and, shall be passed along on an ongoing and timely basis as it is acquired by the Indiana Cave Survey operating through the Hoosier Forest Projects Committee.

8. Stipulate that information developed by the Hoosier National Forest thru its employees, contractors, or other cooperators will be proprietary (owned by the Forest Service) unless placed in the public domain. Cave location information provided to the Conservancy shall be with maintained as confidential with the assurance that any disclosure will not create a substantial risk of harm, or destruction to a cave(s). The Hoosier National Forest Cave Resource Specialist will be consulted in any such decisions where such risk is potentially present.

9. 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 and/or participating groups 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.

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

11. As requested by the Forest Service, coordinate the efforts of others wishing to study the cave and karst resources. Applications for cave location information by Federal, State, educational, or research institutes will be referred to the Indiana Cave Survey through the Hoosier Forest Projects Committee.

The Conservancy will supply the Forest Service a current list of caving organizations. Individual publics desiring cave location information will be referred to these groups. The general karst area within the Forest will not be maintained confidential, but will be treated as public information.

12. 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 Hoosier Forest Projects Committee

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

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

15. Provide photographs to document inventory findings.

16. Insure that all team members working under the direction of the Hoosier Forest Projects Committee and this MOU have a properly executed National Forest Volunteer Agreement currently on file with the Forest Service.

17. Agree not to investigate or access areas of any cave 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.

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

19. 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 (and the Indiana Cave Survey through the Hoosier Forest Projects Committee coordinator) with current cave location data and information acquired by the Hoosier National Forest on a timely basis, regarding cave and karst resources on the Hoosier National Forest.

2. On a case-by-case the Forest Service will 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 direction and guidance for a proactive cave inventory program on the Forest. The Forest will recruit, direct and support caver volunteers for a comprehensive inventory of Forest cave and karst resources.

4. Provide a Forest Service coordinator under the title of "Cave Resource Specialist" who shall be named in writing.

5. Provide the Conservancy with information on current State and Federal lists of threatened and endangered species. Coordinate activities involving any endangered, threatened or sensitive plant or animal species.

6. Keep the Conservancy informed and consult with the Conservancy when proposed management decisions or actions will impact activities governed by this agreement.

At least one representative from the Conservancy will participate as a team member for writing individual cave management plans. The President of the Indiana Karst Conservancy, or the Hoosier Forest Project Committee coordinator as designated in writing will sign individual cave management plans along with the Forest Supervisor and Ranger.

The Hoosier Forest Project Committee coordinator will be notified, on a timely basis, of proposed projects and planning actions with the potential to impact karst areas on the Forest. Consultation will also be made in actions pertaining to designation of Significant Caves under the Federal Cave Resources Protection Act.

7. Provide Cave File Security procedures as follows:

The Forest will assign one individual as "Cave Resource Specialist." This individual will be accountable to the Forest Supervisor for cave file maintenance and security. The files will be maintained under lock and key with access controlled by this individual.

This responsibility is handed over to "The District Cave Resource Coordinator" for the period of time file information is available for use in planning and administration on the District.

Cave location information is made available to individuals, caver volunteers, and teams on the Forest on a need-to-know basis. Files must be returned to the Cave Resource Specialist on a timely basis. Cave file information will not be maintained on the district or outside the the protected cave file system.

On rare occasions cave locations may need to be revealed when a cave is endangered by a proposed project and public input is required. In these instances the HFPC Coordinator will be consulted prior to any such action.

Subject to the availability of funds the Forest Service shall:

8. Review promptly reports, maps and other data submitted by the Conservancy.

9. Provide duplicating services to the extent that personnel or volunteers are available for Hoosier National Forest karst related projects.

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 and training 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 The Hoosier National Forest Land and Resource Management Plan, Hoosier National Forest Cave Management Implementation Plan, Individual Cave management plans, and other planning documents, based upon certain information provided by the Conservancy, and National Forest directed Karst Analysis and Resource Survey Team volunteers. Such plans may be made 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, and other cave resources. Such information is regarded as working documents or is protected by law qualified under exempt categories of the Freedom of Information Act, or The Federal Cave Resources Protection 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:

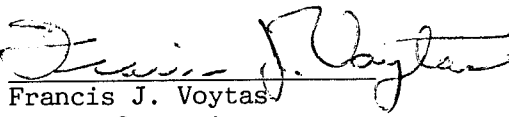
1. Develop plans for administrative studies and priorities.
2. Plan incidental expenses to be reimbursed by the Forest Service.
3. Supplement reports with photographs for documentation.
4. Review the credentials of potential team members and agree upon their acceptance or non-acceptance.

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.

USDA Forest Service,
Wayne Hoosier National Forest

By:

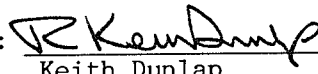

Francis J. Voytas
Forest Supervisor

Date:

8/7/90

Indiana Karst Conservancy Inc.,

By:


Keith Dunlap
President

Date:

Aug 8, 1990

AGREEMENT
between the
INDIANA CAVE SURVEY
and the
INDIANA KARST CONSERVANCY, INC.

August 1990

This agreement is entered into between the Indiana Cave Survey (ICS) and the Indiana Karst Conservancy (IKC) for the purpose of making cave locations, descriptions, and other relevant information available to the Forest Service, U.S. Department of Agriculture, for its use in the Hoosier National Forest (HNF) pursuant to a Memorandum of Understanding (MOU) between the IKC and the Forest Service.

A. General:

1. The IKC shall enter into and maintain a Memorandum of Understanding with the Forest Service which shall establish procedures for handling information about caves in or near the HNF. The IKC is responsible for maintaining an MOU that ensures compliance of the Forest Service with all provisions of this agreement.

2. The IKC shall maintain a standing committee to be known as the Hoosier Forests Project Committee (HFPC) to be composed of representatives of interested Indiana caving groups, including the ICS.

3. The ICS representative on the HFPC shall always be designated as the secretary of the committee.

B. Ownership and scope of information:

1. All information which is supplied by the ICS to the IKC and/or the Forest Service pursuant to this agreement remains the property of the ICS.

2. All information provided to the ICS by the IKC, the Forest Service, or any of their affiliates becomes the property of the ICS. The ICS shall have the right to use, disseminate, or refuse to disseminate all such information at its discretion, subject to the terms of this agreement, the MOU between the IKC and the Forest Service, and other agreements. The person or organization which originally created any particular information retains the right to use and disseminate that information, but this shall not restrict the rights of the ICS to use and disseminate the information.

3. Each document sheet provided to the Forest Service will be labeled "Property of the Indiana Cave Survey provided under agreement with HNF".

4. The ICS will provide all relevant information in its possession about caves located in the HNF Purchase Unit Boundaries.

C. Handling of information:

1. Information will normally be provided to the HNF by way of the secretary of the HFPC passing the information to the Forest Cave

Resource Specialist. If information is urgently needed and the secretary of the HFPC is unavailable or unable to provide the information when needed, the president of the ICS may pass the information directly to the Forest Cave Resource Specialist or may direct other ICS personnel to do so, with a timely explanation of the circumstances given to the HFPC secretary.

This information shall be given to HFPC members for use during the inventory and management planning process. This information shall not be disseminated to anyone outside the HFPC without the specific written permission of the ICS.

2. All new information received by the ICS on caves located in the HNF Purchase Unit Boundaries will be passed along to the HNF on an ongoing and timely basis. The ICS representative to the HFPC and appropriate officers of the ICS will consult with the Forest Cave Resource Specialist as needed to ensure that delivery of information is handled in a timely manner.

3. Except as provided below, all information relating to Indiana caves developed by the HFPC, the Forest Service, or their affiliates will be given to the the ICS on an ongoing and timely basis. This will normally be accomplished by providing the original or a copy of all information to the ICS representative on the HFPC.

4. The Forest Service may withhold information on the existence of archaeological, paleontological, or historical sites in caves if the Forest Service believes that withholding this information will provide greater protection for those sites.

5. All information developed by the HNF and provided to the ICS will be treated as confidential and will not be disclosed in such a way as to create a substantial risk of destruction or harm to any cave.

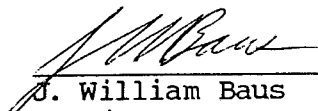
6. The Forest Service will assign one individual as Cave Resource Specialist. This individual will be accountable to the Forest Supervisor for cave file maintenance and security. The files will be maintained under lock and key with access controlled by this individual.

This responsibility is handed over to the District Cave Resource Coordinator for the period of time file information is available for use in planning and administration in the district.


Cave location information is made available to individuals, caver volunteers, and teams in the Forest on a need-to-know basis. Files must be returned to the Cave Resource Specialist on a timely basis. Cave files will not be maintained in the district or outside the protected cave file system.

On rare occasions cave locations may need to be revealed when a cave is endangered by a proposed project and public input is required. In these instances the HFPC Chairman will be consulted prior to any such action.

7. This agreement may be terminated 60 days after written notice by either party. In case of termination, all information subject to this agreement which is the property of the ICS shall be returned to the ICS.


J. William Baus
President, ICS

27 Aug. 1990
Date


Keith Dunlap
President, IKC

30 AUG 1990
Date

GROTTO & COON CAVES WORK WEEKEND RECAP

by Keith Dunlap

The fifth annual IKC sponsored cave restoration projects in Grotto and Coon caves were successfully held on August 25th and 26th. There were record numbers of participants, 27 on Saturday for Grotto, and 30 on Sunday for Coon, representing at least ten caving organizations (AuAg, BIG, CIG, EIG, EMG, IKC, MHG, MIG, NIG, & WCG) from three states (IN, IL, & MI). The diversity of personalities and experience levels of cavers make these trips very enjoyable for everyone. With this many people, a lot can be accomplished without overtaxing anyone. This year's participants for one or both day included: James Adams, Bruce Barnes, Bruce Bowman, Cecilia Bowman, Jerry Brickley, Wendy Brickley, Larry Bundy, Linda Bundy, Chris Carpenter, Kenney Carrigan, Jeff Cody, Jayson Collins, Stephen Collins, Scott Cummings, Keith Dunlap, Chris Fields, Jeff Grant, David Hibbard, Penny Hibbard, Tem Hornaday, Blair Jones, Gary Leindecker, Mike Lorange, Angie Manon, Cheryl Miller, Mike Miller, Jeniffer Mirza, Tom Moore, Ernie Payne, Matt Reece, Ray Rough, Michael Rubin, Jay Savage, Walt Serabran, Serena Smith, Randy Snider, Susie Sweeney, John Vargo, Larry Weiskirch, Kent Wilson, Terry Harley Wilson, and John Woodward.

Activities on Saturday started off on the wrong foot when it was discovered that the trip leader (aka your president) left the brown-washing buckets and wire brushes at home. Penny and Serena volunteered to head for K-mart while the rest of us worked on entrance projects, most notably the re-lettering of the Grotto sign (by Jenny), and the mixing and pouring of four bags of concrete in a low spot under the fence where people had been sliding under. When the "supply crew" returned, everyone entered the cave and basically divided into three groups. The majority of cavers concentrated on graffiti removal and mud washing the areas just beyond the stream and into the first couple of breakdown rooms. A second, smaller group pushed on into the POC area for trash removal in the lesser traveled, and more difficult areas of the cave. The third group proceeded up the scallop climb (with the aid of a cable ladder) and into the upper level of Richard's Extension. This passage had not been visited before on a restoration trip, and luckily was found to be in very good condition, requiring only minimal trash and graffiti removal.

On Sunday, our attention turned to Coon Cave. With the pollen count "pegged" in the parking area, everyone was glad to get to the entrance as quick as possible. Steve Collins and his group, along with the Mid-Hoosier cavers had arrived early, rigged the entrance, and were already in the cave. It took over an hour to belay the remaining cavers down the cable ladder at the entrance. We concentrated on mud washing with six or seven brush teams in the cave, and numerous "runner" hauling water from the back of the cave. Several "hardcore" cavers ventured into the lower levels (and the lower, lower levels) to recover and remove several bags of trash. Most of the participants observed a sizable cluster of bats (25 to 50). The final reward for those exiting first was the sawing up and removal of the yearly accumulation of speleo-logs from the entrance pit.

My assessment of the progress made in the last five years is that Grotto is about 90% "restored" and Coon is about 75%. Both caves will always retain signs of their past heavy visitation, but our restorations have significantly lessened the obvious visible abuses. And more importantly, our managed access policies are keeping the new vandalism to a minimum. There are still occasional signs of unauthorized visitations, and I'm sure there are instances of authorized visitors harming the cave out of ignorance. But unequivocally, the caves and participating cavers are better for the effort, and we shall continue as long as there are cavers willing to support these projects.

One final note, in Grotto cave we observed what appears to be evidence of 20-50 bats being shot. The remains were very decomposed, and one can only speculate that the incident occurred sometime last fall or winter. This action only reiterates the vulnerability of these endangered animals and adds justification to physically protecting the bat caves during the hibernation season.

PROPOSED BYLAWS REVISION NOTICE

The Bylaws Committee (Keith Dunlap, Jane Miller, & Lynn Miller) meet on September 11th. Prior to the meeting the committee members had spent some time over the summer reviewing the bylaws of several other similar organization to assist us with certain topics our current bylaws do not address or which could benefit from clarification.

The committee has put together the recommended changes to be distributed at the September quarterly meeting. There will be an allotted amount of time for discussion of this issue, but no vote will be taken. Should further discussion be deemed necessary, a separate Directors meeting will be called to resolve any problems. The vote to accept the revised bylaws proposed revisions is scheduled for the December quarterly meeting, and the new bylaws, if accepted, will be published in following issue of the *Update*.

A synopsis of the significant recommended changes are as follows:

Article III - "Membership". The bylaws have previously only addressed one membership classification - the individual. The committee proposes to establish a class of membership (and criteria for acceptance) with voting rights for *organizations* that are interested in joining. The committee also proposes a mechanism for expelling members (individual and organizational) from the IKC for conduct in conflict with our purposes and goals.

Article IV is currently titled "Management of the Conservancy". It proposed to be renamed "Board of Directors" and will elaborate in more details the duties and responsibilities of the Board members.

Article V - "Officers". This section is proposed to be renamed "Officer's responsibilities". Again, the duties and responsibilities of each of the three officers will be detailed.

Article VI - "Elections". The existing language concerning duration of term will be moved to this section and will be expanded and clarified.

The committee is also recommending numerous changes related to the overall format of the bylaws (to make them more logical), the rearrangement of some sections into other Articles, the removal of non-inclusive language (making it gender-neutral), the hopeful clarification of some ambiguous sections, and in general, the improvement of the readability of the bylaws to the extent practical.



recycled paper

SPRING MILL PROJECT REPORT

by S. J. Collins

The cave mapping project currently in progress in Spring Mill State Park has a two fold premise. The first is to produce accurate plan and profile maps of all the caves within the park for both the park service and the Indiana Cave Survey. The second objective is to produce new and/or more efficient cave surveyors.

Previous reports published in the *CIG Newsletter* have covered trips through January of 90. This report outlines work completed since then through the end of August 90.

On Saturday, March 3rd, after having been flooded out of Whistling since December 3rd, a very determined crew of four (Jeff Miller, Ray Sheldon, Kenney Carrigan, and Stephen Collins) set out to enter Whistling Cave. As Jeff and Ray ventured in to see if the cave was "open", (it sumps shut about 30 feet in) Kenney and Stephen moved some flood debris to help the cave drain. Jeff pushed through a 20 foot long near sump to "larger" air space. He returned to the entrance with a little less skin on his nose but reported it "doable". One by one with helmets off and laying on their backs they braved the 3 inch wide by 2 inch high airspace. It's an eerie feeling to have one's eyebrows rub the ceiling!

Their aim was to continue a downstream push of the I-survey. During the course of the survey Ray's carbide light started to go out and it became apparent he had no flint in the striker or light to relight it if it was extinguished to change the carbide, (the others with him were "all electric"). As he was setting point with his lamp they quickly formulated a plan to keep it going. All four lined up in the narrow passage and prepared for a "Flaming Carbide Change". With a couple of unused pages from the survey book for "kindling" the paper was lit from the dwindling flame on the lamp by Kenney. Jeff and Stephen then jumbled the burning paper as Ray quickly changed lamp bottoms to one with a fresh load of carbide. The switch was made and the lamp relit, the survey continued! They set 36 stations for 849 feet of passage which ended in a sump. They exited the cave and were delighted to find that the water level near the entrance had dropped nearly 4 inches.

On Saturday, March 17th, Tom Miller led Kevin Wools and Tom Reynolds into Upper Twin Cave. They entered via the 2nd entrance and proceeded to mop up pesky side leads while working their way to the Boat Docks (entrance #1). Their efforts produced another 490 feet of survey.

Dave Black led Steve Reesman, Bambi Erwin and Paul Johnson into Hamer Cave. They produced 1,846 feet of surveyed passage in 34 stations.

Whistling was again "open" and Stephen Collins led Ray Sheldon and Craig Williams in to begin mopping up the multitude of side leads off of the I-survey. With "acceptable" water levels they produced 701 feet of surveyed passage in 22 stations. They finished a total of 3 side leads but the 4th one had more "energy" than they. The trio exited the cave without finding the "Bitter End" of #4.

On Sunday, March 18th, Hamer Cave saw Dave Black leading Craig Williams, Bambi Erwin and Kevin Wools in for another day of surveying. During their "stay" they produced 489 feet of surveyed passage in 17 stations. This total brought Hamer's surveyed length to 3,426 feet. This also completed the lower (and larger) cave leaving an upper level to pursue.

Whistling was again "caver friendly" and Stephen Collins led Ray Sheldon and Tom Reynolds. Their task was to locate and survey a large upper room off of the main

passage (the A-survey). They started at station A-99 and surveyed up 20 feet in elevation and to a large chamber with a funnel shaped floor. This "funnel" led to a small hole which tied back into the main passage, resulting in a survey loop closure (something that excites only a surveyor). Their efforts produced 405 feet of survey in 16 stations. This footage combined with Whistling's previous totals puts the cave at 13,983 surveyed feet.

Upper Twin Cave saw a brief glimpse of two of our Geologist type cavers (Tom Miller and Paul Johnson). They entered and experimented with a level tube to try to pin down a suspected error in elevation which occurred during the survey of that cave. They had mixed results.

On Friday, April 13th, Dave Black led Jeff Farr and Ray Sheldon while Stephen Collins led Keith Dunlap, Kevin Wools and Angie Manon into Hamer Cave for a day of surveying. The two crews entered together and proceeded to the Upper Level. This passage supposedly connects hydrologically to Wind Cave, (another cave in the park). A 2 inch rainfall the previous Tuesday still had Whistling Cave in flood; however, Hamer's was still quite safe but a little more work to "get into". The current was against them on the way in and it was quite interesting for them to experience what salmon must endure on their trip upstream to spawn. The two teams split up and "leap frog" surveyed for a collective total of 2,343 feet with Dave's crew setting 42 stations while Stephen's crew set 39 stations.

On Saturday, April 14th, with Whistling still in flood Stephen Collins, Craig Williams, Ray Sheldon, and Kevin Wools set 43 stations in an overland survey above that cave. They accumulated 2,577 feet of survey for their effort. (The overland totals are not included in Whistling's total footage.)

On Sunday, April 15th, Stephen Collins spent a few pleasant hours alone walking the land over Whistling Cave in an effort to become better acquainted with the cave's relationship to what lies above.

On Saturday, June 16th, Dave Black led Tim Burns, Stephen Collins, Ray Sheldon, and Tina Shirk into Hamer Cave. Working in the upper level their first effort started out as a crawl 2 feet high and 3 feet wide but quickly disintegrated into a 10 inch high by 3 feet wide mud and cobble mess. Tim, who was on point, and Stephen, who was doing back sites, worked their way into this backwards as there was no room to turn around. After 146 feet the passage mercifully ended in a "chamber" 3.5 feet high by 6 feet long and 3 feet wide choked with breakdown.

Their second effort of the day was just a bit roomier and wetter than the first. This passage was shaped like an upside down T with the top part just big enough to sit up in. This passage size remained fairly constant for 126 feet before they broke out into a larger room with a 7 foot ceiling. Across the room the stream crawl continued in its previous form. Another 97 feet of stream passage was surveyed before the passage started to take many turns forcing the survey crew down into the "larger" bottom half of the passage, shared with the stream. After 4 or 5 stations on their bellies, Stephen who had taken over point, announced that the floor was rising and the "Bitter End" was surely near.... or so they hoped. A few more "unpleasant" stations were set and to everyone's surprise they popped up into a 25 foot high dome room. It seemed like a good place to stop, especially since the continuation was a wet crawl. They exited the cave with 45 stations set for a total of 613 feet of surveyed passage.

On Sunday, June 17th, Hamer Cave again saw "action" as two crews were put together. A minor upper level crawl ending in a breakdown choke near "Hamer Spring" at the rear of the main lower cave was today's target. Stephen Collins and Tim Burns entered with the intent of finding a way through the choke while Dave Black led Tina Shirk and Ray

Sheldon in behind the others in the crawl. Dave and company were to survey up to and hopefully beyond the choke. The breakdown choke proved far too unstable to work in and produced a few tense moments for the push team, the survey was terminated at the choke. The teams exited the cave with 106 feet of survey in 7 stations. This day's total brought Hamer's surveyed length to 6,522 feet with a few more know areas yet to be surveyed.

On Sunday, July 1st, Stephen Collins led Kenney Carrigan and Ray Sheldon into Whistling Cave to continue an I-survey side lead started March 17th. Around 200 feet in from the entrance, a drowned bat was noted still clinging to the wall by one foot. He had picked a poor spot to sleep and became a victim of the recent floods. Further into the cave, in a drier area, Stephen had left a dry pair of gloves to use when surveying. However, when he went to retrieve them today he found that a rodent had taken a real liking to them and chewed several holes in them! It was soon noted that this "resident rodent" also had a taste for the survey flagging tape left marking trails and stations. They left the "Rat's Nest" and proceeded to their goal. Their efforts produced 1,117 feet of dry crawl survey in 25 stations. Their efforts had just pushed Whistling's length over 15,000 feet.

On Thursday, August 2nd, Whistling saw Stephen Collins and Ray Sheldon. The two man survey crew's task was to continue mopping up the I-survey side leads. This required the pair to move here and there along the I-survey which is 5,160 feet in length. They finished three of the remaining leads along this section. A 4th lead was surveyed for a distance of 120 feet before the passage became too small for these surveyors. This passage was seen to continue as a 9 inch high by 3 foot wide crawl for 30 to 50 feet, a good lead for a smaller crew. They exited the cave with 248 feet of surveyed side leads in 11 stations on a thirteen hour trip.

On Saturday, August 18th, whistling Cave saw three survey crews enter. Scott Fee led Kevin Wools and Marcella Chastain while Stephen Collins led Jeff Miller, Craig Williams and Lisa Isenhower. These two teams were sent to continue surveying in separate upstream leads, the A and K surveys respectively. The third team was led by Ray Sheldon and included Bill Baus and John Danovich. Their task was to push downstream in the I-survey to the sump and check a final lead in this remote area. They were to survey any passage found and then to begin to photographically document this section of the cave on their way out. The lead didn't go and the remainder of the day was spent exposing film. Scott and Stephen's crews produced 742 feet (in 22 stations) and 1,556 feet (in 33 stations) of survey respectively.

On Sunday, August 19th, Whistling Cave was again visited, but by only one survey team. Led by Stephen Collins, it included Kevin Wools, Ray Sheldon, and Marcella Chastain. they entered with high hopes of finishing up a side passage that had been "hanging" since last October. This is the G-survey and had been noted as an unimpressive upper level dry crawl off the main passage. It had been left unfinished as more promising leads were pushed; that of course is when it was dry enough that one could even get into the cave. The previous survey crew had set 5 stations for 402 feet in passage averaging 1.5 foot high by 7 feet wide. This day's team set 6 more stations in similarly sized passage, but at the 7th (G-11) a drastic change in the passage occurs. The survey crew popped out into a wet canyon passage from the previously dry crawl. This canyon starts out with a 6 foot ceiling but that quickly jumps to 16 feet with a narrow slot in the floor leading to what appeared to be a wet lower level. Seventy-five feet further into the canyon an 18 foot dome room was encountered. At this dome the passage continued ahead as a crawl, or up the dome via a climb. The Sunday time limit was nearing and the team was still reeling from the shock, (they were sure they would finish this passage). So they packed up and headed out after setting the day's final station, G-15, for 334 feet of survey. This total pushes Whistling's working length to 17,771 feet.

Within the time span of this report there were eleven efforts to survey in the park. However, the extensive rains Indiana has experienced this year have resulted in several complete washouts and changed the planned trips on many of the other weekends. Two trips in February and one each in May and July were canceled as everything was in full flood. The repeated rains have not only slowed the work but have also dampened the spirits of many of the once eager project participants. However, despite all, much has been done in, and learned about, the caves of the park. Upper Twin has only two viable leads left to pursue and is "waiting" to be drawn up. Lower Twin and Shawnee (Donaldson/Bronson) are virtually complete but are still being drafted. Hamer Cave is near completion. There is also a small cave or two (under 100 feet) to be mapped in the park; five other small ones have been mapped and drawn. Whistling is by far the most incomplete and the most difficult to complete. The restricted entrance, constant flooding for long periods and travel times nearing two hours one way to all sections still in need of crews with survey equipment have Whistling's finished map a good way off. The aforementioned Whistling difficulties are also beginning to limit access to only the more aggressive cavers with stamina and determination.

In the coming months things should be winding down in the project with the possible exception of Whistling. If you would like to participate and think you "fit the bill" contact Stephen Collins RR1 Box 155; Daleville, IN 47334 Phone 317-759-6124 or Dave Everton 7240 Zikes Rd; Bloomington, IN 47401 Ph. 812-824-4380. The longer you wait the harder the trips will be.

The next project weekends are:

October 20-21
November 17-18
December 1-2

MAKE YOUR MARK THE RIGHT WAY -

MAKE A MAP!

1990 MAMMOTH CAVE FIELD CAMP

by Larry Reece

The second annual NSS Mammoth Cave Restoration Field Camp was held on July 29 through August 3, 1990. The camp was based at the Maple Springs Research Center in Mammoth Cave National Park. This facility consists of a bunkhouse with around 30 bunks, a former residence with another 18 or so bunks and a small kitchen and four toilet/shower rooms and a converted garage that houses a cooking and dining area. All three buildings are air conditioned and heated. The Park Service provided the facilities for our use during the Field Camp. The NSS provided the manpower for the project. The CRF loaned us the cooking and dining utensils needed for the week. Food was purchased with funds paid by each participant.

SUNDAY - Arriving at the park around 2 PM, Matt and I met Norm Rogers (Field Camp Coordinator) and a van load of cavers on the road to Maple Springs Campground. They were headed for the cave for a quick tour of the areas where we would be working. We turned around and followed them. We met Bob Ward (Park Cultural Resources Specialist), our Park Service host for the week at the service elevator entrance and spent about 2 hours in the cave looking at the Cathedral Domes and Snowball Dining room areas. After the tour we sat around at the Maple Springs facility and told lies until supper time about 7 PM. After supper we had an overview of the upcoming weeks' projects and a slide show of park scenes and last years field camp presented by Bob Ward.

MONDAY - Breakfast at 7 AM and then off to the cave in order to arrive at our work areas before the first commercial tours began. In the cave projects were started in three separate areas. #1 was lining the trail in Cleveland Avenue from the Snowball Dining Room towards the Carmichael entrance with rocks removed during the elevator shaft and dining room construction many years ago. The supply of rocks was a pile about 5 feet high, 6 to 8 feet deep and 50 to 100 feet long located just before the Snowball Dining room along Cleveland Avenue. The purpose of this project was to encourage the tourists to stay on the trail away from gypsum formations near the walls. #2 project was the rigging of Thorpes' Pit and removal of debris from the bottom in addition to removal of the remains of old stairs at the bottom of Cathedral Dome. The purpose of this project was to remove unsightly materials from tourist areas as well as to remove unnatural food sources from any cave life in the area. #3 project was removal of wood debris from the far side of Crystal Lake in the Frozen Niagara area of the cave along with tourist litter in the same area. The purpose of this project was the same as #2. After Supper today we had a slide show on Floyd Collins and Cave Wars presented by Ranger Bob DeGross. It was an interesting program.

TUESDAY - We started the day with a bang at 2:30 AM! Most of the people in the bunkhouse were awakened when the lights came on in the middle of the night. It seems one of the group decided to turn over and fell out of the top bunk. He survived with only minor bruises to his body and ego. Back in the cave around 8 AM we reviewed our progress from yesterday. We had lined about 1/4 mile of trail on Cleveland Avenue but the NPS expressed concern over the way we had done it. They requested that we have rock only one layer high and that we insure it did not move if stepped on. Their concern was due to potential injury of tourists who might walk on the rocks. It seemed to me anyone dumb enough to walk on the rocks deserves what they get. Anyway, we spent part of the day rearranging the rocks to minimize any potential hazard. Yesterday the #2 group completed work in Thorpes' Pit and made good progress in Cathedral Dome. #3 group made good progress in Crystal Lake but caused the greatest disruption in tours as the tourists wanted to lean over the railings and watch the people on rope and in the lake below. With tours about every 30 minutes, guides frequently had to urge tourists to continue on down the trail to avoid conflict with the next tour. Today part of group 1 and part of group 2 exchanged places to try something different. Most agreed both jobs were equally difficult and tiring. Today we learned that a "John Rock" was big, heavy and only loved by John Vargo who seemed delighted to put as many of these monsters as he could in a wheelbarrow for someone else to wheel down the trail! A TV reporter from Glasgow, KY came in today and filmed work in the Cleveland Avenue area which was broadcast on the evening news in Glasgow. By 3 PM everyone was very tired and we left the cave around 4 PM. The program tonight was an interesting slide show and talk by Dave Foster from the American Cave Conservation Association on his organization's purpose and plans for the ACCA Museum in Horse Cave, KY.

WEDNESDAY - Today's review of progress to date indicated that about another 1/8 mile of trail in Cleveland Avenue was completed. Due to time spent reworking Monday's trail work and the increasing distance from the rock pile to the end of prior work, visible progress on this area was slowing but the same amount of labor was required. Several people joined the Crystal Lake group for a change of pace and scenery. It was decided that with the remaining people in group #1 and group #2 we could complete the Cathedral Dome area in about 3 to 4 hours. We proceeded to Cathedral Dome and finished that project around 11 AM. After lunch a few more people went to the Frozen Niagara area to help with the work at Crystal Lake while the rest went back to moving rocks along Cleveland Avenue. This afternoon a TV crew from WHAS in Louisville, KY. came in and filmed work in progress. They had some excellent shots of the vertical work and the boat work in Crystal Lake. This was shown on the evening news and provided good publicity for the NPS and NSS. (Sure beats cave rescue news!) Today in Mr. Roger's neighborhood we learned a new word, TURON. For those of you who are unfamiliar with this word, it is a person that is a cross between a tourist and a moron. They are reported to frequent commercial caves. After today's work our evening program was a slide show by George Gregory, Park Natural History Specialist on the geology of the area. It was a very good program. We were also joined for the program

by Assistant Superintendent Vaughn Baker. Following the program, an after-hours tour in the New Entrance and out the Frozen Niagara entrance was held for those who had not been working in that area and others who wanted to go back to look around. Almost everyone went on the tour and found it very nice.

THURSDAY - Today's progress review finds work completed at Crystal Lake and a little over 1/2 mile of trail completed on Cleveland Avenue. A new project cleaning several pits near the New Entrance is started while the Cleveland Avenue project continues. (Didn't they abolish slavery in Kentucky?) Today is to be a half work day with recreational caving in the afternoon. We left the cave around 11:30 and went back to camp for lunch. Prior to today we have been carrying lunch into the cave with us and eating in the cave. Its nice to see the sun! After lunch we had a short talk by David Mihalic, the park Superintendent, who thanked us for the work we were providing. He also covered the position of the NPS on several cave related issues. After the talk by the superintendent we left for scheduled wild caving. Five people went to Ganter Cave and 34 went to Great Onyx Cave to explore and take pictures. In Great Onyx Cave (the site of last year,s project) a 90 foot pit that we did not know about last year was visited by some of the group. It was viewed from the top but ,as far as I know, not descended. While most people left Great Onyx by 8:30 PM, one party of nine stayed in the cave while four of their members descended the pit we worked in last year to look at the lake and check out a rumor that someone had made it beyond the lake. One result of this was that they did not get out of the cave in time to make the last ferry to camp at 10 PM and had to make about a 40 mile drive around to get to camp from the north side. When they arrived at camp around 1 AM, they said they didn't mind the drive as they had found the way past the lake, over an 8 foot man-made dam and into passage not on the map. Due to the lateness of the hour when they got past the lake, they did not fully explore the passages beyond. Who knows what might be found?

FRIDAY - The last day and we are all tired! We continued with trail work in Cleveland Avenue with a total of about 3/4 of a mile done this year. The area where we finished is around where the natural breakdown tends to keep tourists on the trail so this project is essentially complete. The vertical crew in the Frozen Niagara section completed their work around 2 PM, about the same time as the trail crew. Removing the tools and remaining trash we left the cave about 3 PM. As no activities were planned this evening, we had an impromptu slide show and spent the rest of the time packing up and telling more lies (or were those cave stories supposed to be real?).

SATURDAY - Field camp was over, but for those who were interested several trips were planned. A two hour tour of the former tourist section of Crystal Cave (site of the famous 1954 NSS expedition) was held with an additional 2 hours in the more remote parts of the cave for those desiring to see more. There was the opportunity to join CRF teams working on various projects in Mammoth Cave and some people were planning to take a regular tour in Mammoth covering an area they had not seen before.

SUMMARY - This was the second week-long NSS Field Camp at Mammoth Cave. We had 42 people in attendance and accomplished a lot of work during the week. Deserving of special recognition were both Norm Rogers, camp coordinator, for his efforts that made the camp successful and Melody Durbin, our cook, who planned and provided some of the best meals ever seen in the entire State of Kentucky. Everybody helped wherever needed and we all got along well. While we did not remove as much debris from the cave as last year, we put in a lot more work. Sometimes it seemed we were trying to move the entire cave one rock at a time as we worked on the trail (Please no more John Rocks). I feel we made an improvement in the condition of the cave that would not have been otherwise done due to the limited manpower the NPS has for projects of this type. This cave is large enough to continue to provide these types of projects for many years. With 175 years of prior human visitation there is a lot that needs to be done. I'm sure the National Park Service appreciates our efforts and I look forward to doing it again next year.

[ed - This article originally appeared in the September issue of the CIG Newsletter]

INDIANA KARST CONSERVANCY, INC.

**Statement of Receipts, Expenditures, and Changes in
Fund Balance for the Quarter Ending 06/30/90**

GENERAL FUND

RECEIPTS

DUES	761.25
DONATIONS	63.00
INTEREST	23.32
TRANS BUCKNER FUND	232.66

TOTAL RECEIPTS 1080.23

EXPENDITURES

POSTAGE, GENERAL	88.49
INK, REPAIRS	53.02
UPDATE POSTAGE	118.75
HEC DUES	25.00
DEPOSIT STAMP	8.82
EARTH DAY DISPLAY	17.25
EARTH DAY PRINTS	54.00
ED IMAGES SLIDES	37.95
SULLIVAN CLEANUP	65.14
PAPER, STENCILS	173.40

TOTAL EXPENDITURES 641.82

EXCESS TO FUND BALANCE 438.41

FUND BALANCE 3/31/90	2158.62
FUND BALANCE 6/30/90	2597.03

BUCKNER FUND

TRANSFER TO GENERAL FUND PRIOR QUARTER

HANCOCK PROPERTY

RECEIPTS 0.00

EXPENDITURES

LOCKS, KEYS	11.95
CLEAN UP SUPPLIES	46.40

TOTAL EXPENDITURES 58.35

EXCESS TO FUND BALANCE 0.00

FUND BALANCE 3/31/90	394.87
FUND BALANCE 6/30/90	336.52

TOTAL BALANCE - ALL FUNDS 3/31/90	2786.15
TOTAL BALANCE - ALL FUNDS 6/30/90	2933.55

IKC QUARTERLY MEETING MINUTES

Saturday, June 23rd, 1990
Bloomington, Indiana

DIRECTORS PRESENT:

Keith Dunlap
Glenn Lemasters

Tom Rea
Ernie Payne

DIRECTORS ABSENT:

Lynn Miller
Jane Miller
Mike Miessen

The meeting was called to order shortly after 7 PM. Introductions were made. Ten members/visitors were present.

EARTH DAY / UNDER EARTH DAY - On Earth Day the IKC set up a booth at Military Park in downtown Indianapolis with a display depicting karst systems and their effect on the total environment. The American Cave Conservation Association (ACCA) had a display set up in the adjoining booth. Under Earth Day was a huge success at Sullivan's cave, with over 90 cavers turning out for the clean up effort.

CAVE MANAGEMENT SEMINAR - Both seminars, one for the HNF management and one for cavers and cave owners, were very successful and well received. The seminars were informative and educational. The HNF management should be commended for sponsoring the events.

HOOSIER NATIONAL FOREST - The HEC is out canvassing, asking for people's support in the form of letter writing for Alternative A, the conservationist's plan. Cavers are encouraged to write letters in support of the cave management section in Alternative F, which was developed with the assistance of cavers. If enough opposing letters are received, it could be overturned.

CAVE INVENTORYING /CAVER VOLUNTEERS - To initiate the inventorying system, two information meetings will be held. The first will take place at Tom Rea's house in July. The second will be held at Larry Mullins' house in August. Anyone interested in participating is encouraged to attend one or both meetings.

HENDERSON PARK - The city of Salem has sold timber from Henderson Park. There are three substantial caves that could be adversely impacted by this decision. Tom Rea was supposed to meet with them, but the meeting did not occur due to conflicting schedules. It has not yet been rescheduled. Keith Dunlap wrote a letter to the mayor, but no response has been received. The timing for their decision is a poor one with the NSS convention to be held there in 1992.

GROTTO AND COON CLEANUPS - The annual cleanups are scheduled for August 25th and 26th, the weekend prior to their closing for the bat hibernacula season. Participation is encouraged.

IDNR ACTIVITIES - The first results from the Bat Disturbance Project have been tabulated. The preliminary results appear to show a correlation between weight loss and disturbance, but no conclusions will be drawn until the second year of the project. The DNR is funding two summer habitat studies for the Indiana bat. One is in northern Indiana, the other in the HNF. Virgil Brack, project coordinator, is looking for volunteers. The cave fauna poster is underway and is being done by artist and caver Christine Marie Gerace from Linton, IN.

EXPANDING MANAGEMENT SITES - Keith Dunlap has not yet talked to the landowners for Salamander Cave. Kent Wilson, Tom Rea, Keith Dunlap, and Angie Manon talked to the landowner of Green Eye Pit. He is concerned about liability. Different options were discussed with him, and we are to contact him later with some recommendations. The EIG is proceeding with the plans to gate Devil's Graveyard in light of the recent vandalism problems. Keith Dunlap has volunteered once again to build the gate. The EIG may request funding from the IKC.

GLEANINGS FROM NATURE - All of the text has been typed in. It now needs to be formatted and reprinted.

FEDERAL CAVE RESOURCE PROTECTION ACT - The signing process is supposedly underway. No other news on it progress.

CAPER'S DOOR PRIZES - The IKC will donate two framed photographs for door prizes. A fund raising raffle was suggested, but was dropped when no one volunteered to organize it.

ADMINISTRATIVE ITEMS - The Bylaws committee will review and make recommendations by the next meeting. A bulk mailing authorization was obtained. This will allow the IKC to mail at a much reduced cost with the CIG's permit.

NEXT MEETING - The next meeting will be held in Indianapolis at the end of September.

ITEMS FROM THE FLOOR -

- o Incidental expenses for the HF project committee can be reimbursed by sending bills to the treasurer.
- o It was suggested by Tom Rea that a PO box be obtained in Indianapolis so it will be more convenient in responding to our mail.
- o The BIG has requested a 2nd key holder, which was approved - paperwork will be sent to Anmar Mirza, their appointee, as soon as possible.
- o There has been discussion about HF project committee representatives not being IKC members - the consensus was that IKC membership should be encouraged, but not required.
- o The IKC and ICS will have a formal agreement pertaining to cave location information to be supplied to the Hoosier National Forest.
- o The BIG is determining the feasibility of gating the Blair System to reduce the amount of vandalism - methods on allowing for caver access were discussed. Kevin Komisarck is coordinating the effort. Funding from the IKC is probable.
- o Reeves Cave is for sale - contact Tom Rea for more details.

The meeting was adjourned at approximately 9 PM.

Submitted by Angie Manon, Acting Secretary.

NEW MEMBERS

(as of 16SEP90)

Richard Horn
7156 East Payne Road
Indianapolis, IN 46239

Bruce & Deborah DeVore
6008 Moeller Lot 218
Fort Wayne, IN

CHANGE OF ADDRESSES

Dave Everton
7240 Zikes Road
Bloomington, IN 47401

Scott Fee
6042 Georgetown Road
Indianapolis, IN 46254

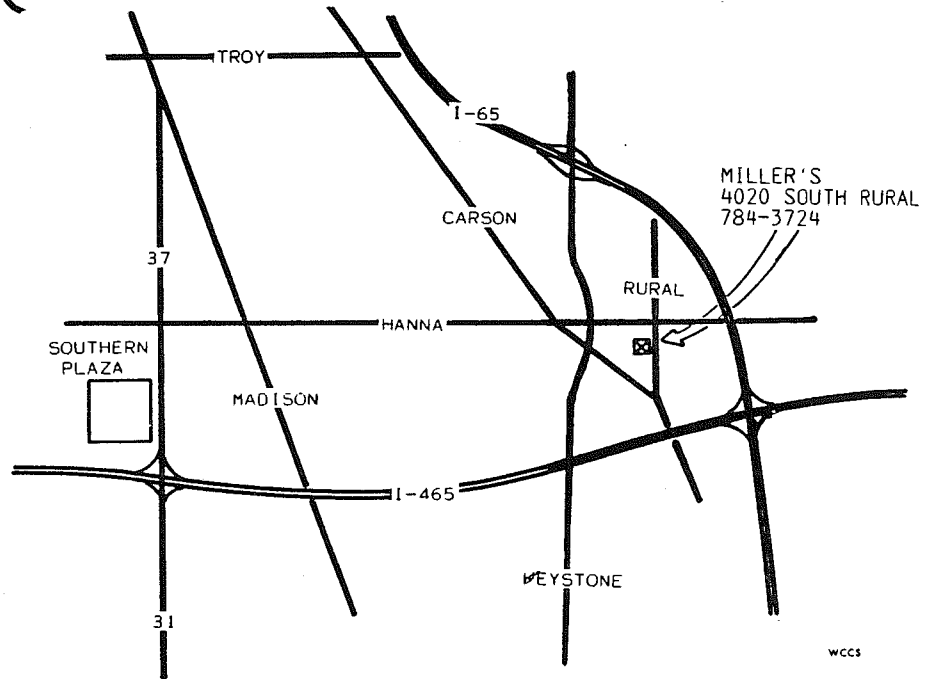
DIRECTIONS TO THE IKC QUARTERLY MEETING

SATURDAY SEPTEMBER 29th, 10:00 AM

LYNN & JANE MILLER'S
4020 SOUTH RURAL, INDIANAPOLIS
(317) 784-3724



South of downtown Indianapolis on I-65 to Keystone Exit (one exit north of I-465). South on Keystone to Hanna (the first traffic light). East (left) on Hanna to Rural (the first cross street). South (right) on Rural 1/2 block, 2nd house on west (right) side of road.



wccs

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 _____

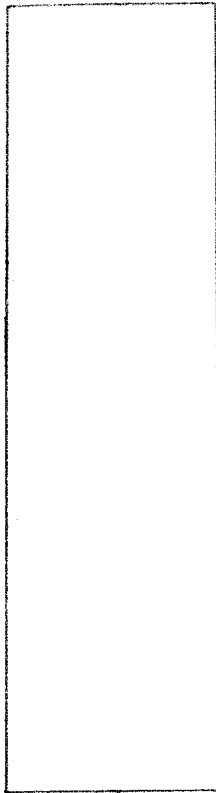
Make checks payable to the INDIANA KARST CONSERVANCY and mail to the IKC TREASURER, PO Box 461, Plainfield, IN 46168. The IKC is an IRS recognized 501(c)(3) non-profit organization with membership dues and donations tax deductible. A cancelled check is considered an acceptable receipt, but if you wish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

Suggestions for other interested persons (names and addresses please):

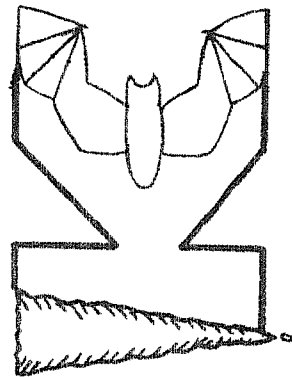
Indiana Karst Conservancy
PO Box 461
Plainfield, IN 46168



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