

A black and white photograph of a person standing in a cave. The person is wearing a headlamp and a dark jacket, standing on a rocky ledge. The cave walls are covered in large, textured stalactites and other rock formations. The lighting is dramatic, highlighting the textures of the rock.

No. 20 – March 1991

TKC

UPDATE

# INDIANA KARST CONSERVANCY, INC.

PO Box 2401, Indianapolis, IN 46206-2401

*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
Shaft Cave/ Keith Dunlap .....	(317) 882-5420
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Central Indiana Grotto/ Mike Miessen .....	(317) 353-6624
Eastern Indiana Grotto/ Brian Leavell .....	(317) 552-7619
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Cover photo of Carol Frakes in Marengo Cave (Crawford Co) by Scott Fee.

Publishing courtesy of **Myotis Press**; Editor and Publisher Keith Dunlap.



# ANNUAL BUSINESS MEETING REMINDER

**SATURDAY, MARCH 23th, 10:00 AM**

**INDIANAPOLIS, INDIANA**  
INDIANA WAR MEMORIAL  
PATTON HALL

The Annual Business meeting is specifically called to elect Officers and Directors for the Conservancy. It is also a time to reflect upon past accomplishments, discuss current projects, and plan for future projects. As always, IKC meetings are open to members and anyone else interested in cave and karst conservation. The meetings are informal, and everyone is encouraged to attend and participate.

Partial agenda: Elections; Committee reports; HNF Ridgewalking/Inventorying activities; Under-Earth Day II project; HNF Management plan status; Natural Areas Conference; National Cave Management Symposium; Bat projects; and more!

Meeting Directions: The War Memorial is located four blocks north of the circle in downtown Indianapolis. It is bounded by Michigan, Pennsylvania, Vermont, and Meridian streets. Enter by the north doors. Patton Hall is in the NE corner.

## EVENTS CALENDAR

- 23 MAR = IKC ANNUAL BUSINESS MEETING, Indianapolis (see above).
- 24 MAR = IKC RIDGEWALK/INVENTORYING IN HNF (see page 4).
- 30-31 MAR = SPRING MILL PROJECT SURVEYING (Contact Steve Collins).
- 13 APR = HNF INVENTORYING WORK DAY (Contact Tom Rea or Larry Mullins).
- 21 APR = UNDER-EARTH DAY II, Sullivan's Cave (see page 11).
- 12 MAY = 1992 PLANNING COMMITTEE MEETING (Contact Scott Fee).
- 18 MAY = NATURAL AREAS CONFERENCE AND FIELD DAY (see page 5).
- 22-26 JUL = MAMMOTH CAVE RESTORATION WEEK (Contact Norm Rogers).
- 23-26 OCT = 1991 NATIONAL CAVE MANAGEMENT SYMPOSIUM (see pages 8 & 23).

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 2401, Indianapolis, IN 46206.

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## RAMBLINGS FROM THE PRESIDENT...

Last month marks our five year milestone since the IKC was officially incorporated as a conservation organization (although we were actually formed in 1985). During the "early" years, we were somewhat controversial, focusing on heavily visited caves and attempting different approaches to cave conservation and protection. The philosophy was that if our actions failed, we were at least the wiser for it, and anything was better than no action at all. Luckily now we can reflect back and see numerous successes (and yes we have had a few failures too). While many of our original cave "management" techniques were not original, they were new to Indiana, thus stirring emotions, fears, criticism, and skepticism. Now five years later, we see many of the organized cavers embracing pro-active conservation and becoming involved in their own similar protection strategies.

Also over the past five years, the IKC has established itself as a creditable resource and organization outside the caving community. We have established a working rapport with several state and federal agencies, and have served as an information source for other environmental organizations, consulting firms, and individuals. While sometimes our reputation exceeds our abilities or volunteers to follow through on all requests, for the most part we are making beneficial contributions. And we have our membership to thank for this.

Where do we go from here? After the new Board is elected, we need to plot our strategies for the years ahead. Unfortunately, this is easier said than done. With most of our Board and active members already involved and committed to a "full plate" of responsibilities, we may be asking and expecting too much to expand upon our current activities. One possible solution is to increase our membership base and find ways to get these new members involved. As I grow older, I am pleased to see that there is a "new generation" of conservation-minded cavers, now all we must do is find a way to harness their enthusiasm.

- *Keith Dunlap*

PS - You may have noticed that the *Update* was printed with a different process this time, hopefully for the better. Please forgive the Publisher if some of the pages are a little sub-par, as he is still in the experimenting and learning phase that should eventually lead to a higher quality newsletter.

I am saddened to announce that on March 2nd, Chris Yeager died in a caving accident during the Cheve expedition in Oaxaca, Mexico. Chris was a close friend and caving companion to several of our members. His enthusiasm and love for caving were matched by few. During his short caving career, he contributed much in the areas of exploration and conservation ethics. He was an inspiration and will be notably missed, but he will remain in our thoughts and in our prayers. *RKD*

## IKC RIDGEWALKING/INVENTORYING TRIP - HNF

MARCH 24th

The IKC activity associated with the March meeting will be a ridgewalking trip on the day following the meeting. This trip will be on the Hoosier National Forest and is part of the ongoing inventorying work. In addition to the primary objective of helping the Forest, this trip will also be an educational experience for those wishing to learn the finer points of orienteering (navigating one's way through the forest while hopefully not getting too lost), and a chance to spend a beautiful spring day observing nature at its best (good weather is promised).

For those unfamiliar with the karst inventorying activities on the HNF, and the forest in general, let me digress. The HNF is 188,000 acres of public land located in south central Indiana, stretching from near Bloomington to the Ohio River. The land is managed by the Forest Service and traditionally they had emphasized maximizing commodity production (i.e.; timbering). However, over the past few years, and with the formal release of their new management plan this month, the Hoosier Management has redirected its efforts to better balance the use and protection of all the resources. One of these resources is the cave and karst features spotting the forest. The new Management Plan extensively addresses the protection of the cave and karst resources; however before they can be managed and protected, they must be identified and inventoried. The method chosen to accomplish this task is primarily through volunteers interested in contributing to this project. Since last fall numerous cavers have been working in designated areas on the Forest locating cave and karst features, mapping caves, and documenting their results. More volunteers are needed, and a secondary purpose of this IKC trip is to increase interest in the inventorying activities.

The particulars of the trip are as follows: we will leave from the west side McDonalds in Bloomington at 9:00 AM and caravan to the HNF Office in Bedford for a short briefing of the days activities, division into teams, and assignment of areas. Each team will have someone experienced with reading topo maps and will assist those less experienced. Once out in the field, the team will systematically ridgewalk their area, flagging and documenting their findings, and reporting the results back to the Forest Service. While this may sound a little overly structured, it really isn't, and everyone will have a good time.

The tentative plan is to work an area in the "experimental forest" just south of Paoli. No special equipment is needed, but bring a compass and flashlight, if you have them. Dress appropriately for the weather, wear sturdy boots, and bring gloves as there may be some briars. If you would like further information contact Keith Dunlap (phone numbers on page 1), or Larry Mullins at the Forest Service Office. Finally, floor space can be arranged for out-of-towners who need a place to stay Saturday night.

*[Editor's note: On March the 10th, the CIG Grotto trip was to this same area. Three groups of five spent five hours walking their areas. The group I was involved with found two caves, one which we explored for over one thousand feet before turning around in going passage! The other groups found some good stuff too. Hopefully we will be just as lucky on the 24th.]*



## NATURAL AREAS CONFERENCE AND FIELD DAY CORYDON, INDIANA SATURDAY, MAY 18

The Natural Areas Conference is an annual event hosted by the Division of Nature Preserves (NP) of our Department of Natural Resources (DNR). The purposes of the conference are to celebrate the preservation successes the Division has had, to learn more about current activities, and to visit some of the preserves in the area of the conference. This year's conference is in the karst-rich area of Corydon and should be of interest to cavers and nature lovers alike. The IKC has signed on as a co-sponsor (more on our role later) along with the Indiana Academy of Science, the Indiana Audubon Society, the Knob and Valley Audubon Society, The Nature Conservancy, the Harrison County Chamber of Commerce, the US Forest Service, and the DNR's Divisions of Fish & Wildlife (F&W), Forestry, and Indiana State Museum and Historic Sites.

The schedule of events include a morning session of presentations, afternoon field trips to various sites of interest, an evening barbecue, and evening programs. Specifics of the morning session are as follows:

Conference Welcome - Frank O'Bannon, Lieutenant Governor  
A Naturalist's Tour Through "Little Appalachia" - Cloyce Hedge, Coordinator, DNR Natural Heritage Program  
Protecting Natural Areas on State Forest Land - Burnell Fischer, State Forester, DNR Forestry  
Sinkholes, Chert, and Grass -- Indiana's Big Barrens - Michael Homoya, Botanist, DNR NP  
The Nongame Program -- What It Means to Southern Indiana - Katie Smith, Nongame Supervisor, DNR F&W  
Fish and Mussels in the Blue River - Bill Forsyth, Professor of Biology, IU Southeast  
The Changing Role of the HNF in Protecting Natural Areas - Frank Voytas, Forest Supervisor, HNF  
Natural History of Indiana Caves - Dr. James Keith, Senior Ecologist, WW Engineering and Science  
Large Ecosystem Protection Opportunities -- Think Big! - Denny McGrath, Director, Indiana Nature Conservancy

After a break for lunch, the following field trips will be offered:

Agave Glades - explore the glade, surrounding forest, and the nearby West Branch of Mosquito Creek  
Teeples Glade NP - one of the largest and finest examples of a limestone glade in the Indiana, other flora  
Carnes Mill NP - situated on a talus slope above the Little Blue River, unusual flora and wild flowers  
Hardin Ridge - excellent example of the rugged topography of the Knobstone Escarpment and its unique flora  
Corydon and Hayswood Historic Tour - tour of our first State Capital and surrounding historic sites (easy)  
Flint Barrens & Three-way Sedge Sinkhole Pond - best examples of Big Barren grasslands & sinkhole wetlands  
Post Oak-Cedar and Leavenworth Barrens NP - glades, barrens, and dry upland forest, rare flora species  
Yellow Birch Ravine NP - sandstone cliffs, rockhouses, water falls, interesting flora  
Hemlock Cliffs - the greatest concentration of sandstone cliffs in Indiana, rare plants and cultural features  
Oil Creek Cliffs - sandstone cliffs, rock shelters, and grottos draped with moss, ferns, and uncommon plants  
Blue River Canoe Trip - journey down the scenic Blue River through the heart of Indiana's cave country (\$5.00)  
Wyandotte Cave Tour - "explore" one of Indiana's finest caves while observing rare cave formations (\$1.50)

Following the afternoon field trips, the conference will re-assemble at Wyandotte Woods SRA for a barbecue dinner (meat or vegetarian) and socializing. Later in the evening, two optional activities will be planned including a Naturalist Program (subject to be announced) and a slide show presented by the IKC tentatively entitled "Indiana Caves and Conservation" (Glenn Lemasters and Lynn Miller are organizing this program).

This one day conference is an excellent way to learn about and visit some of Indiana's most unique features, as well as to find out about the ways and means to preserve them. The conference is well attended by the "movers and shakers" of the preservation movement, and thus is a good way to meet others interested in saving our heritage for future generations to enjoy.

Because of the limited facilities, registration is limited to 300, so **pre-registration is a must!** The registration fee is **FREE**, although there is a cost for the evening meal (\$8.75 for adults, \$6.75 children 12 and under). For more info, contact the Division of Nature Preserves, IDNR, 402 W. Washington, Rm 267, Indianapolis, IN 46204; or call for a brochure (317) 232-4052.

## AN EARLY ACCOUNT OF CAVE EXPLORATION IN INDIANA

by Hank Huffman

Recently while conducting research on the life and work of Dr. Asahel Clapp, Mike Homoya, a colleague of mine at the Indiana Natural Heritage Program, came across the following account of an early caving expedition that I thought fellow IKC members would appreciate. Dr. Asahel Clapp (1792-1862) was one of our state's earliest physicians, practicing medicine in New Albany beginning in 1817. Although he evidently lacked a formal medical or scientific education, Dr. Clapp was known as an accomplished and knowledgeable physician and was a renowned pioneer botanist and geologist. From Dr. Clapp's journal we have:

Thursday March 28, 1839

Set out about noon, in company with Drs. Cobb, Flint, Herricks, and Sloan, and Captain Edmunds, Strader, Riddle, and my son William, for Redfield's Cave near Palmyra. Raining toward night, arrived at Redfield's a little before 8 o'clock. Entered the cave a quarter before nine, and returned a little past 12. We explored the cave to the extremity, or as far as it was practicable to go. It required nearly an hour to return from the extremity to the mouth of the cave, but our progress was slow, owing to the stepping and often muddy rocks that we were obliged to ascend and descend in the passage. The water in some places was several feet in depth. Towards the farther end were numerous stalactites and stalagmites. We collected a few white translucent crawfish, several bats, etc.

Note in particular this last line in Dr. Clapp's account and his mention of what apparently is the troglobitic crayfish *Orconectes inermis inermis*. This species, familiar to most every caver in Indiana, was "discovered" and initially described scientifically in 1871 from Siebert's Well Cave (Crawford Co). Thus Dr. Clapp actually appears to be the first to have "discovered" this species, some 32 years previously. Unfortunately, Clapp was not nearly as knowledgeable in zoology as he was in botany or geology and thus failed to recognize the importance of his observations.

[Editor's note - To learn more about the life of Dr. Clapp, pick up a copy of the March 1991 issue of **Outdoor Indiana**. Also for those curious about Redfield's Cave (also known as Redman Cave), it is now under the water of Hawaco Lake.]

### TILLERY HILL PLAN

The Army Corp of Engineers has issued its long-awaited draft Environmental Impact Statement (EIS) on Patoka Partner's plan to build an \$80 million theme park on Patoka Lake. The EIS offers three alternatives: 1) the proposed resort complex, 2) a smaller state park type development; and 3) No action, at least for the near future. Alternative 1), and to a lesser extent alternative 2), would essentially destroy almost 2,000 acres of public land purely for the benefit of the resort investors. Further more fishing in Patoka Lake and eagle habitats would be jeopardized, as would the tranquility of this southern Indiana area. The IKC has a copy of the DEIS available for review.

You are strongly urged to comment on this proposal before the March 25th deadline. Address a postcard to US Army Engineer District, Mr Keith Hoss, PO Box 59, Louisville KY 40201 and simply state that you are in favor of alternative 3), no action.



## NEWS BRIEFS...

- ❑ Wayne's Cave has a new "patron" -- Serena Smith. At the December meeting, Serena expressed an interest in serving as a patron for one of the IKC managed caves. After talking with the current patrons, Tom Rea volunteered to turn over the responsibility for Wayne's after serving as its patron for more than four years. Serena is conveniently located on the west side of Bloomington and may be reached at (812) 333-4971. Visitation to Wayne's may be coordinated through her, or one of the grotto liaisons. Anyone else (preferably in the Bloomington area) that would be interested in "adopting" a cave should contact Keith Dunlap.
- ❑ Another key IKC personnel change is Kevin Struck resigning as Science and Research Committee Chair. Kevin stepped down to allow himself more time to pursue his professional career and to serve two recent governmental appointments. Kevin will be serving on the Advisory Council of the Bureau of Water and Minerals, reviewing policies and other matters pertaining to the DNR Divisions of Water, Oil, and Gas; Reclamation; Geological Survey; and Fish and Wildlife. Kevin was also appointed to the White River Greenway Task Force whose purpose is to review and suggest policies and projects for the White River Corridor within Marion County. We wish to thank Kevin for his efforts and wish him well in his new endeavors. He plans to remain an active and involved member.
- ❑ During the biannual bat census, a wallet was recovered in Grotto Cave that belonged to someone who had illegally visited the cave during the seasonal closure. The IKC Board, the owner of the cave, and the DNR Fish & Wildlife Division all agreed that prosecution should be pursued. Thus, the matter was turned over to the DNR's Law Enforcement Division. A Conservation Officer visited the owner of the wallet and he admitted to being in the cave along with two others. A follow up found that one of the other two is now in the service, and the other one is denying involvement -- but his credibility is lacking as he has been in trouble with the law on numerous occasion. While no charges have been filed yet, one or more of the following statutes could be applied: the Federal Endangered Species Act; the Indiana Endangered Species Act; the Indiana Cave Protection Act, fauna harassment; the Indiana Cave Protection Act, vandalism; the Indiana Cave Protection Act, gate/fence damage; and Trespassing.
- ❑ The Spring Mill Surveying Project is still continuing. While the Shawnee System and Hammer Cave are almost done, Whistling Cave just keeps going with more new leads every trip. Whistling is now over 25,000 feet with most of the surveying now in virgin passages. Weather permitting (the entrance floods very easily), trips are scheduled at least once a month. Contact Steve Collins for more details.
- ❑ The other organized surveying project currently underway is on the Hoosier National Forest. Several dedicated groups have been ridgewalking and inventorying the caves and karst features on the Hoosier in cooperation with the HNF management. New caves have been showing up in various grotto newsletters (Mid-Hoosier Grotto, Eastern Indiana Grotto, and Central Indiana Grotto to name a few), and more caves are being discovered and mapped each week. Contact Larry Mullins at the Forest Service if you would like more information on becoming involved.
- ❑ The HNF Management Plan is to be released late this month. The original 1985 Plan was very commodity oriented, caused considerable controversy, and was eventually withdrawn. This new plan is a culmination of several years of hard work by the Forest Service to satisfy the multiple-use needs of the public and private interests. Of particular interest to cavers is the Plan's extensive attention towards cave and karst management. Frank Voytas, the Forest Supervisor is planning on attending the IKC's annual meeting to address any questions that our members may have about the Plan.



- ❑ A call for papers for The 1991 National Cave Management Symposium has been announced with a May 1st abstract deadline. The symposium will be held in Bowling Green, KY from October 23-26. A wide variety of topics for papers will be accepted and it would be appropriate for the IKC to put on a presentation -- if someone will volunteer to organize this effort. The hosts this year are the ACCA and the National Parks Service - Mammoth Cave. More information can be obtained from David Foster (502) 786-1466 (there will also be brochures at our Business meeting).
- ❑ In December, the IKC renewed its lease of the property that contains Coon, Grotto, and Shaft caves for another five years. Mr. Hancock, the owner, has been very pleased with our management and is appreciative of our efforts to reduce unauthorized visitation and our restoration commitments.

- ❑ At the December meeting, the IKC was presented a Certificate of Appreciation from the Non-game and Endangered Wildlife Division of the Indiana Department of Natural Resources for our cooperative efforts in studying and protecting the Indiana bat and other cave-dwelling species. Members should be proud of this recognition, as it was only the second time this Division has presented such an award.



- ❑ Two Land Trusts have formed in Indiana recently. The Central Indiana Land Trust, Inc. is focusing on properties in Marion, Johnson, Shelby, Hancock, Hamilton, Boone, Hendricks, and part of Morgan county. The Sycamore Land Trust is concentrating on Monroe, Owen, Green, Lawrence, Brown, and the remainder of Morgan county. Both organizations have a similar goal -- to protect land from destruction and development through ownership, long term leasing, and conservation easements. The Nature Conservancy and the DNR's Division of Nature Preserves have the same basic goals, but their focus is strictly on properties with endangered species' habitats or other quality features. The Central Indiana and Sycamore land trusts will preserve the properties that do not meet the TNC/NP's criteria which are currently being lost (*such as properties with caves!*). To obtain more information on the CILT, contact Dan Zay (317) 251-1304. For information on the Sycamore Land Trust, contact Hank Huffman (812) 333-0509.
- ❑ The final sampling periods for the two year "winter weight loss" Indiana bat study will be conducted during April. The purpose of the study is to see if there is any statistical correlation between body weight loss during hibernation and the amount of disturbance the bats receive. Anyone interested in learning more about this project or assisting, may contact Scott Johnson (812) 334-1137, or Keith Dunlap.
- ❑ The NSS now has an electronic bulletin board for cavers to utilize for such items as maintaining a nation wide caving calendar, exchanging cave related software, etc... The bulletin board is based in Plainfield, so it is a local call to many of our members. Tom Rea is the SYSOP and the phone number is (317) 745-2197. Those interested can initially log on and leave your name and some other information. After your NSS membership is verified, your security code will be increased to allow you full access to the board.

- ❑ The task of re-printing Blatchley's *Gleanings from Nature* is proceeding with publication now scheduled for late April (after Earth Day activities). The preliminary layout is complete and is being proofed by several individuals. Final layout should be done by the end of March, then it is just a matter of printing, collating, and binding (although this is no small job as the re-print is 74 pages long). Distribution will be free to all current and new IKC members. There will also be a limited number of copies for sale, with proceeds going to the IKC to help recover the costs of production.
- ❑ Another membership "perk" is also behind schedule -- the distribution of three cave conservation posters. The IKC has obtained the Virginia Cave Board's "What Goes Down, Must Come Up" karst lands poster, and the Missouri's "Cave Life" poster, but production of Indiana's "Cave Habitat" poster is not yet complete. All three posters need to be distributed at the same time in order to minimize our bulk mailing expenses. Distribution will be as soon as possible after the Indiana poster is available.
- ❑ During the Indiana bat census at Ray Cave, the participants got into a debate on whether the "back" entrance to the cave has enlarged itself over the years. If you have recollection of this entrance, or better yet a photo, please contact Keith Dunlap so we can settle this argument. Furthermore, this information is needed as we are trying to determine if the air flow through this entrance has increased and is providing for a better hibernacula.
- ❑ The Division of Fish and Wildlife of the DNR has undergone considerable re-organization to better focus on managing Indiana wildlife resources. As part of this "New Direction", Wayne Bivans, formerly in charge of the Planning, Environmental, and Non-Game Section, was named Director of the Division. His appointment follows Gary Doxtater's appointment as Deputy Director of the DNR earlier last year. Quoting from a recent F&W newsletter, "the New Direction is a broader philosophy of fish and wildlife management than we've known in the past. We have focused for many years on traditional fish and wildlife management. That is our tradition, and we will continue that tradition. But we need to shift some priorities into five areas: regulatory responsibilities, land acquisition, private land management, environmental review, and working with Hoosiers to understand their needs. Managing fish and wildlife is our traditional job, but if we don't protect what we have, we won't have anything to manage. As the needs of society and natural resources change, we have to be ready to change with them."
- ❑ As part of the "New Direction" discussed above, the F&W Division held a day long "public input" meeting on December 15th that was attended by Keith Dunlap. About eighty individuals representing various organizations attended this invitation-only meeting (this was done to prevent biasing towards groups that could "pack" the meeting and dominate the discussion). The meeting was very well organized and facilitated. In the morning session, the attendees broke into ten groups to discuss topics of concern pertaining to Indiana's fish and wildlife. These topics were prioritized and the top ten from each group were presented when the participants re-convened. We then voted for the overall top ten topics. Each topic was then assigned to a facilitator and attendees picked a topic to participate in during the afternoon session, discussing the selected topic in detail. Strategies and suggestions were formulated on each topic and the outcomes were presented at the end of the day. All the information was documented by the DNR and a summary was published and mailed to the participants. While it is not clear what actions will be taken from this input, it was at least a commendable start by the "new" F&W Division.
- ❑ The Indiana Department of Transportation held a public information and comment meeting in Bloomington last December to explain the progress being made on the environmental impact study for the proposed Indianapolis to Evansville highway. The consulting firm of Bernardin, Lochmueller & Associates is handling the northern most section of the project, starting from Bloomington and ending near Newberry. To date, four alternative corridors have been identified and the process of determining what will be impacted has begun. The Indiana Cave Survey has been cooperating with the consulting company and has supplied them with a

tentative list of several hundred caves. Approximately twenty caves were located within the four proposed corridors which will be investigated in more detail as the project narrows down its alternatives to one proposal with the least amount of overall impact to the various items of concern (caves, karst features, wetlands, archeological sites, cultural sites, endangered plants and animal habitats, etc...). The proposed schedule calls for the Draft EIS to be completed in December of 1991, with the Final EIS to follow approximately one year later. While a lot of work is being done in preparing this study, it is unclear at this time how this highway construction project will be funded considering the state's economic situation and a negative feasibility study that will prevent federal funding.

- ☐ While on the topic of the state's fiscal problems, the Governor had a little bit of an embarrassing situation when he imposed a state wide budget and hiring freeze, including the dedicated non-game fund last year. This fund is solely financed by donations, and is provided to support such non-game projects as the eagle re-introduction project, the peregrine falcon release program, and the Indiana bat census. The freeze initially interfered with hiring of a project coordinator for the falcon project, but approval was finally granted. The bat census project was also in jeopardy since this is handled as a contract. Thanks partially to such groups as the Amos Butler Audubon Society and their phone tree activities, the Governor succumbed to public pressure and removed all restrictions on this fund. The Governor's spokesperson claimed it was all just a little "misunderstanding" and that the fund was never really meant to be frozen (despite the fact that the DNR had been fighting internally for six months to get the fund unfrozen).
- ☐ The Windy City Grotto is hosting a pre-convention weekend prior to the 1992 Convention in Salem. The WCG has selected Bloomington as their site, featuring many of the popular caves in Monroe and Lawrence counties. Coon, Grotto, Shaft, and Wayne's caves will be on their list, and it will be a good opportunity for NSS members to witness some of the accomplishments of the IKC, comparing these "managed" caves to unmanaged ones such as Buckner's and Trapdoor.
- ☐ Late last year, Keith Dunlap had the opportunity to accompany several DNR personnel to the property that contains Ashcraft Cave in Greene County. The property was bequeathed to the DNR, but the family was contesting the will. The general opinion was that this mile long cave is worth holding on to. The IKC drafted a letter to that effect and sent it to the Director of the DNR. His reply was pretty vague as to what action they were planning to take.
- ☐ To celebrate the NSS's 50th anniversary, the National Cave Association (the association of commercial cave operators) is giving 50% discounts to NSS members. The participating caves in Indiana include Blue Springs (near Bedford), Marengo (north of Corydon), and Wyandotte (west of Corydon). Wyandotte is operated by the DNR (taxpayer subsidized) and regularly costs \$2.75 for the Little Wyandotte tour and \$3.75 for the two hour Big Wyandotte tour. With 50% discounts for NSS members, it is a real steal to one of the best caves in Indiana.
- ☐ At the December IKC meeting, Jay Savage from the WCG submitted a proposal to help fund the new bat/mammal display being planned for the Chicago Field Museum. The IKC elected to make a matching challenge grant to the WCG of up to \$200. It was also stipulated that there must be assurance from the museum that no bats will be killed for the display. A follow up letter from the museum addressed our concerns with the bats coming from their extensive archives. Their letter went on to say that "we believe our treatment of bats in the exhibit will help to "demystify" the public perception of these often elusive nighttime creatures. The accessibility of the bats in this display format should serve to dispel visitors' hesitancy to become acquainted with bats and increase their appreciation of them as integral members of our natural world."
- ☐ Welcome to new members Charles and Nancy Tubbs. Also welcome our new organizational members: the Central Indiana Grotto, the Harrison-Crawford Grotto, the Northern Indiana Grotto, and the American Cave Conservation Association.

## UNDER EARTH DAY II - THE RETURN TO SULLIVAN'S CAVE

by Keith Dunlap

Earth Day is a special day to do something good for the environment. As cavers, it seems logical to do something good for a cave -- and we will. Last year we descended upon Sullivan's Cave for the start of a massive restoration effort (see article below). Participation was beyond belief and much was accomplished in this initial effort -- but much is left to do. Thus we will once again gather *en masse* on Sunday, April 21st and demonstrate that Mid-Western cavers really care about cave conservation.

For those that are unfamiliar with Sullivan's, it is Indiana's third longest cave with over nine miles of passages. It is also one of Indiana's most heavily used non-commercial caves. While it has experienced its fair share of abuse and vandalism, it has still remained an enjoyable cave for novice and experienced cavers alike. As we did last year, we plan to concentrate on trash removal, judicious wire brushing, and mud painting. Haul bags and other necessary tools will be provided, but feel free to bring your own restoration "tool". Most of our efforts will be concentrated in the more heavily traveled areas (e.g., Back-breaker, Mountain Room, etc.), but we encourage those familiar with the cave to venture up and down stream. The cave can be strenuous, but it is still appropriate for beginners and older children. ***All we ask is that everyone have a helmet and adequate light sources.***

We plan to meet at the cave entrance at 10 AM. For those who do not know the way or would like to car pool, we will be leaving the Bloomington west-side McDonald's at 9:15. Questions about the trip should be directed to Keith Dunlap (phone numbers on page 1).

## SULLIVAN'S CAVE CLEANUP

by Emily Butterbaugh and Julie Thorp

On April 22, 1990, all who gathered for a cave cleanup at Sullivan's Cave near Bloomington, Indiana shared a successful Earth Day. It was a gorgeous day as dedicated individuals, concerned with conservation and protection of our caves, gathered near the entrance of Sullivan's Cave to discuss the day's program. To ensure a safe and efficient trip, we divided into groups. Then, we were ready to begin our adventure.

After the brief orientation sessions, we charged up our lanterns and gathered the tools we would need. Wire brushes and cloth hauling bags were on hand to help in the cleaning effort. We waited in line as the 93 cavers slowly entered the cave through the two-by-two-foot hole at the base of the tree. A recently installed metal gate over the opening proved to be useful in helping us maintain our balance as we lowered ourselves down through the narrow entrance. It was not long after we entered that the damage of the vandals could be found; graffiti covered the walls and litter scattered about. We spread out in order to cover the entire cave, with some groups remaining near the entrance and others moving further into the cave.

We chose to venture further in. Our first obstacle was the "Back-Breaker," a 4-foot-high and 800-foot-long passage. After travelling a few feet, we understood how it received its very appropriate name. Here the disturbing evidence of vandals covered the walls and ceiling. As we continued on past the Back-Breaker and through the Mountain Room, we encountered a waist-high, ice cold stream and an immense amount of mud, which served as a slide on a few occasions. After about an hour and a half trek, we entered the large, muddy Quarry Room, where we began to clean the graffiti from the walls and ceiling. The work continued for many hours, and we accomplished much. We emerged from the cave exhausted, having dragged our very large quantities of trash, as well as having scrubbed paint and carbide soot from the walls and formations.

The Earth Day cleanup helped us realize just how fragile our natural surroundings are. Having seen first hand the extent to which people abuse caves, we gained a deeper sense of the need to protect them for others to enjoy.

[Reprinted from **PHOLEOS** (Wittenberg University Speleological Society), June 1990.]

## WAYNE'S CLEANUP TRIP REPORT

by Jay Savage

An IKC cleanup trip was held in Wayne's Cave the weekend of December 8th. On Saturday, groups of cavers assembled in the Bloomington McDonald's. After some initial confusion, we found out the actual cleanup was scheduled for Sunday (*ed - the mixup was due to an ambiguous notice that was sent out*). A key was available, however, and everyone decided to go clean up anyway. Extra trashbags, wire brushes, and spray bottles are now becoming standard caving equipment.

The lock opened easily and about twenty-five cavers entered, including groups from WCG, NIG, and MIG. We collected three bags of trash and removed much graffiti, concentrating on Old Wayne's. The largest area of graffiti also contained the NSS number of the vandal artist. The crawlway had a fair amount of trash. This was mostly batteries, duct tape, and some glass. Several people made it as far as Camp II before returning. The main cleanup task in Wayne's is the removal of years of carbide dumps. One dump I found was eighteen inches across and four inches deep. Take your putty knife to Wayne's.

Sunday, another wave of cavers went into Wayne's. They continued the cleanup and pushed past Camp II and other areas. Between the two days, at least forty cavers participated. Wayne's is in much better shape now. I enjoyed caving more when I don't encounter trash dumps, broken glass, or graffiti. This is now possible in Wayne's. My thank to those who turned out.

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## WAYNE'S CLEANUP TRIP REPORT, PART II

by Keith Dunlap

Because of the mixup of the date of the cleanup and a "warning" announcement by the trip leader to beginner cavers at the CIG grotto meeting, the turn out on Sunday at Wayne's was relatively light with eleven cavers meeting at the McDonald's. Participants included Eric Schmidt, George Cesnik, Lorlie Esterly, Jim Adams, Keith Dunlap, Kathy Tozer, Bill Tozer, Brad Lunsford, Willie Lunsford, Missy Lunsford, and Barb Metcalf. Eric and George decided they were going to concentrate their efforts between Camp II and III, so they entered first and were probably out of the crawlway before the rest of us had even entered it. After the rest of the group started the crawl, claustrophobia soon took its toll (as it always does in Wayne's) on part of the group, so the survivors at the other end of the crawl consisted of Lorlie, Jim, Keith, Kathy, and Bill. After exploring around Camp I, we headed for the "Wells" area. The "Wells" are a series of very high domes, the farthest of which contains two of the finest examples of moon milk anywhere. Next we headed for the "RPI" discovery. Last year this was also our goal, but we could not locate the correct route. This year we had "Old Scout" Tozer with us to blaze the trail and we reached the "candles" in record time. Now came the work -- the five of us slowly worked our way out, collecting trash, wire brushing what graffiti there was, and removing/burying carbide. We spent two to three hours transversing the thousand or so feet back to Camp I. Everyone was still in good shape so we decided to venture part way to Camp II before heading out since Lorlie, Jim, and Kathy had not been in Wayne's before. The crawl out was, as always, much longer than on the way in, especially while dragging trash bags. As we approached the gate, George was there to greet us, having made it to Camp III and back, only to have to wait three hours for us to exit.

Progress is being made in cleaning up Wayne's, but there is still new trash and graffiti being left despite the gate and managed access. Those granting permission to Wayne's are screening groups as carefully as they can, and the situation is much improved from five years ago so I guess I shouldn't complain. But, what bothers me the most is that those still doing the damage haven't figured out that they are ones we are trying to protect the cave from and the reason for the gate in the first place. Hopefully someday they too will develop a conservation ethic, or find some other hobby.

## EVANSVILLE METRO GROTTO CONSERVATION ACTIVITIES

by Ernie Payne

As 1990 draws to an end, we can look back on a busy year for conservation activities by the Evansville Metropolitan Grotto and its members.

Barry Smith, Larry Christian, Mary Kausch, Bob Sergesketter, and Richard Vernier assisted with restoration work in Gothic Avenue of Mammoth Cave National Park on the weekend of April 7 and 8.

April 22 found nine EMGers helping to clean Sullivan's Cave as part of the Indiana Karst Conservancy's Earth Day Activity. The nine EMG participants were Bob Sergesketter, Steve Weinzapfel, Don Shofstall, Ernie Payne, George Mundy II, Barry Smith, Jim Hall, Denis Hadley, and Keith Hendershot.

Ernie Payne helped on the IKC Hancock property cleanup workday on June 23 and attended the IKC Quarterly meeting.

Mike Lawrence spent a whole week in July on the Restoration Camp in Mammoth Cave. This was Mike's second summer to participate in this week long activity. He knows it is worthwhile! Ask Mike about it.

On August 25, Ernie Payne helped on the IKC cleanup of Grotto Cave.

In addition to helping on the organized cave cleanup trips, all EMG members regularly pick-up pieces of trash they find as they go caving. In fact, the plastic trash bag has become a part of the standard caving pack carried by EMGers. Their efforts haven't been limited to in-cave trash; they also have cleaned the parking areas for cave visitors as well as the paths to the caves.

EMG members support many cave conservation groups such as the NSS, IKC, OVR, CRF, CKKC, ACCA, and BCI by being members and/or helping with labor and financial support. They have found their efforts to be fun and rewarding as well as making new friends and contacts in the process.

[Editor's note - Reprinted from *The Petroglyph*, Vol 26-2.]

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## MID-HOOSIER GROTTO CLEANUP OF DONNEHUE CAVE

by Jeff Cody

Every year the Mid-Hoosier Grotto puts on some kind of cleanup trip. Grotto members on an earlier trip into Donnehue Cave reported lots of graffiti and trash, mostly near the Boat Club entrance.

On Sunday, December 9th, grotto members Mark Webb, Scott Cummings, Jeff Cody, Larry Bundy, Cheryl Miller, Mike Lorance, Erin Howell, and Clay Whitaker were the participants. Armed with wire brushes, mud paint, and haul bags, part of the group entered the culvert entrance. While some wire brushed and mud painted, others picked up loose trash near the culvert and the upper level. The remainder of the cavers went to the Boat Club entrance, wire brushing and mud painting. Very little trash was found at the boat club entrance, primarily because of the way that section of the cave floods, flushing all the trash out the river.

After five or six hours, most of the wire brushing and mud painting was done. Two haul bags of trash was removed from the culvert entrance. The Doghill section of the cave was not checked, so another grotto trip will be planned to finish what is left. Thanks to all the MHG members who participated and to the IKC for the use of their haul bags.

## 1991 INDIANA BAT HIBERNACULA CENSUS

by Keith Dunlap

As part of the Federal Recovery Plan to save the federally listed endangered Indiana bat (*Myotis sodalis*) from extinction, a coordinated winter census is conducted every two years. This census information is the best measure of the status of the species and helps to evaluate the effectiveness of the actions taken to save the Indiana bat. The coordinator of the biannual census is Richard Clawson, Leader of the Indiana Bat Federal Recovery Team. Richard is responsible for censusing the seven hibernacula classified as Priority I (recent populations of more than 30,000 *sodalis*) in the United States (2 in Indiana, 2 in Missouri, and 3 in Kentucky). The hibernacula classified as Priority II (30,000 to 1,000 bats) and Priority III (less than 1,000 bats) are then censused by someone within each individual state (IN, KY, TN, MO, WV, and several fringe states). The census in Indiana is sponsored by the non-game section of the Fish & Wildlife Division of the Indiana Department of Natural Resources (DNR). The actual work is contracted out (underwritten by the non-game dedicated fund) to a qualified biologist. Since 1981, this census work has been supervised by Dr. Virgil Brack with various assistants to help with the field work. This year, assisting Virgil were Scott Johnson (DNR non-game biologist), Dr. Karen Tyrell (biologist and professor at Univ of Tenn), and myself (no special expertise or fancy title). On several cave trips, we were also accompanied by Steve Collins (IKC) and Craig Stihler (biologist from the West Virginia DNR). All told, we visited 21 caves in seven days. The following is a brief account of the trips (*note: The census consists of counting and recording individuals or clusters onto data log sheets along with locations and temperature data. The exact totals are later tabulated and double checked. As of the date this article was written, Virgil had not released the official counts, so the population estimations in this report were only our perception at the time of the visit, and may or may not be correct. Also, populations seem to fluctuate from census to census, so general trends are hard to categorize on many of the newer caves added in recent years.*):

Jan 31 - I met Virgil, Scott, and Karen near Wyandotte Cave at just about dusk. Earlier in the day, Virgil, Scott, Karen, and Richard Clawson conducted the surveys in the two Priority I classified caves, Twin Domes and Batwing. Their consensus was that Twin Dome's population was stable or slightly increased from the previous census, and that Batwing's population might be down again slightly (this would put it at the lowest level since it has been known as a hibernacula). Our original plan was to visit Wyandotte, but because they were running behind schedule, we elected to census Saltpeter Cave (Crawford) instead. Richard and property manager, Roger Gleitz, accompanied our crew. The population in this cave appeared to be about the same as in the past (between 300 and 500).

Feb 01 - We started the morning at Wyandotte (Crawford), again accompanied by Richard and Roger. Virgil had brought a super-high power spot light and binoculars which made the counting much more accurate, as most of the bats are high on the ceiling in Washington Avenue. The bats were scattered more than usual and a considerable number of bats were found in the Rugged Mountain passage. Our guess was that the population may have been down some from the 10,000 bats counted last time. We did find two silver-haired bats (*Lasionycteris noctivagans*) hibernating in the entrance, doubling the previously known state population (only one was found in '89).

Our second cave of the day was Robinson's Ladder (Crawford). This cave was new to the census in 1989 with approximately 100 bats located in the main dome. This time, we found bats in the main dome, the upper passage to the rest of the cave, and an alcove off the main dome across from the upper passage; thus the population for the cave doubled or tripled.

The final cave of the day was Wallier Cave. This was a new cave to check at the suggestion of a local caver. I did not do this cave due to a prior commitment (an IKC Board meeting in Indy). Virgil, Scott, and Karen found the cave just about dusk. One small cluster was discovered, significant only in that it is one more known Indiana hibernacula.

continued...



Feb 2 - Today was our "vertical" day. Steve Collins was to meet us about noon to accompany Virgil and I into Parker's Pit (Harrison), then all of us later were going to Jughole (Harrison). Karen had not done vertical work before, so the morning was spent at Borden's Pit practicing (we also checked the cave for Indiana bats, but none were found). About noon, we moved our rigging over to Parker's, and Virgil and I descended to the bottom to count the bats there. We then ascended to the alcove across from the main balcony to count those bats. By then Steve arrived, and descended and swung over to the balcony. Virgil, then I got back on rope and had Steve pull us over. Very few bats were found on the balcony ceiling (unlike '87). We dropped the second pit, squeezed through the S-bend, the 45-degree slot, and the X-canyon to the third drop into the ei Room. The bats were very active in this room, probably due to the spring-like weather outside (don't ask me how they know) and the advance notice they had hearing us struggle through the obstacles. All of us agreed that the cave gets easier the more times we visit. The bat population was about the same or down slightly from the 1100 bats recorded last time.

The five of us headed for Jughole about nine o'clock. Cold came with the darkness, so we quickly rigged the pit and rappelled in. We again used the super-light and binoculars as most of the bats are high on the ceiling. The bats were scattered more than during the previous two counts, so it was hard to tell if the population was up or down, but our guess was up from the 6500 bats in '87. We exited the cave and got back to Corydon about 1 AM.

Feb 03 - Today we decided to check Wildcat Cave (Crawford). This cave had a small population documented in the early 80's, but the last check in '87 turned up no *sodalis*. This time the bats were back and numbered several hundred along with a like number of little browns (*Myotis lucifugus*). We also visited nearby Sharpe Creek Cave, but found no bats other than a few common pips (*Pipistrellus subflavus*).

Our next goal was to visit Cave River Valley in Washington County. We had made arrangements to meet Kathy and Bert Engler (the owners) at 3 o'clock and we were right on time. Bert had never been in River Cave before, so we invited him along. The only problem was that we had five persons and only a three person canoe. Rather than shuttle everyone in, I put on my wet suit and floated in while the other four crowded into the canoe. In 1982, River had approximately 100 *sodalis*, but in '87 only five were found. This time we found only one and he was "lost", being in the much warmer section of the cave rather than towards the entrance where they have traditionally hibernated. After River, Scott headed home, while the rest of us decided to check out Endless Cave despite the fact that only two *sodalis* were found in '82, and only one in '87. But luck was with us as we located several hundred in a cluster under a ledge approximately 1000' into the cave (again in an area much warmer than they traditionally like). This cave concluded our first weekend of caving.

Feb 8 - The four of us along with Craig Stihler met Friday morning at the Bloomington McDonald's to start the "northern" tour of caves. First up was Ray Cave (Greene), one of our favorites due to the ever increasing population in this cave (over 28,000 in '89). Virgil had done much of his thesis work at this cave in the early 80's, and more recently has been one of the sites for the winter weight loss study. We entered the cave and started counting. It was soon apparent that the population was up again, elevating the cave to the status of a Priority I hibernacula. We also observed a significant increase in the number of bats located near the small "back" entrance to the cave. Upon further examination, Virgil believes the entrance has gotten bigger, possibly letting more air in to that section of the cave. Finally, since 1985, a single albino *sodalis* had been noted in this cave during each census. This year was no exception, but apparently the albino bat has been doing more than just hibernating in the cave, as several more nearly white bats were noted along with one that was all dark except for a single white stripe across its head!

Our next cave was Clifty (Greene) which has had a small but steadily increasing population (approximately 400 *sodalis* in '89). This year though, the population was obviously down, possibly as a result of the rescue in the cave last winter.

Next we drove down to Mitchell to meet with the supervisor of the Mitchell Crushed Stone Quarry to check out a new lead, but he was not home, so we drove back up to Hobbieville to visit Sexton Cave (Lawrence). Sexton was a potential hibernacula turned in by a Bloomington caver. We had tried to check this cave out last year, but the water was too high. This year the water was down, but it soon became apparent just a short distance in that a wet suit was needed as the water was several feet deep with only six inches of air space and it was getting lower. Thus we aborted our trip.

Feb 9 - The first cave for today would be Salamander (Monroe). This cave was documented in the early 80's to have a small colony of *sodalis*, but a check in '87 revealed none. This time we also found none.

Next was Grotto Cave (Monroe). The population in this cave has randomly fluctuated between 2,700 and 4,200 *sodalis* during the last five census with 3,000 bat counted in '89. This time the bats were scattered more than usual and further back in the cave. Our guess was that the population was down.

Believe it or not, Buckner Cave (Monroe), despite all its abuse, still maintains a small population of Indiana bats in the entrance room. The three counts during '83 to '87 had an average of 400 bats, but it dropped drastically to only 24 bat in '89. This year approximately 50 bats were found, with half of those being in a very vulnerable crack just a few feet away from the crawlway.

Our second attempt to meet with the supervisor of Mitchell Crushed Stone Quarry proved successful. He gave us directions, but it was now dark, so it took us over an hour to locate the cave. Mitchell Crushed Stone Company Cave (Lawrence) is basically a single high canyon that meanders for over a mile. We did find a small colony of *sodalis*, but more importantly, we found several hundred Big Brown bats (*Eptesicus fuscus*), making it the largest known Big Brown hibernacula in Indiana.

Feb 10 - The first cave today was Leonard Spring Cave (Monroe). This cave was found to be a hibernacula in '89 with a small population of 135 bats. This year there seemed to be a few less.

Next was Saltpeter Cave (Monroe). This cave had been visited twice before, with the last count of only 19 *sodalis* in '87. This time we found about fifty bats between the natural entrance and the large dome room. Virgil on his previous two times in the cave had noted a tight 30' pit but had not dropped it before, so this time we decided to bring the gear to do it. This proved to be productive, as we found several hundred more bats at the bottom.

The last cave of our 1991 census was Coon Cave (Monroe). For some reason, Coon is the groups sentimental favorite of all the caves we census. Coon traditionally had a population of less than 1000 bats, but jumped substantially in '87 to almost 3,000, then dropped to 2,100 in '89. This year, it was very evident the colony was up significantly, probably to around 4,000, surpassing its neighboring Grotto Cave for the first time.

This year's count went very smoothly, censusing more caves in fewer days than in the past. This can probably be attributed to the fact that we kept the same core group during the whole census, with each of us knowing our responsibilities to perform. This is also the third census that Virgil, Scott, and I have worked together, so we have gotten to know each other, as well as the caves that are included in the census.

One final note, many of the caves included in our census are off limits during the winter months (September thru April) because of the hibernating bats, while many others are closed year around at the land owner's request. We obtained permission to visit everyone of these caves, but several of the owners were hesitant, even when we explained the significance of this project. Please respect the land owner's rights and always ask permission before visiting a cave on private land.

# BYLAWS OF THE INDIANA KARST CONSERVANCY, INC.

(As amended 08DEC90)

## ARTICLE I: NAME

The name of this not-for-profit corporation is the Indiana Karst Conservancy, Inc. (the Conservancy).

## ARTICLE II: PURPOSES

The purposes of the Conservancy shall be to carry on programs of:

- A) Protection, management, and acquisition of karst features and their environs, with emphasis on Indiana.
- B) Scientific study and conservation education of and about karst features and their environs, with emphasis on Indiana.

## ARTICLE III: MEMBERSHIP

### 3.1 CLASSES

There shall be the following Classes of Membership in the Conservancy:

#### 3.1.1 Individual Membership

Individual members are natural persons who have paid membership dues. Individual members shall have the right to vote for the Executive Board, hold office provided they meet all requirements as outlined in Article IV, be appointed to committees, and chair committees.

#### 3.1.2 Organizational Membership

Organizational members are organizations whose principal goals and objectives are consistent with the goals and objectives of the Conservancy and who wish to support the Conservancy and receive the benefits of membership. Organizational members shall have voting privileges of one vote per organization.

Members shall have all privileges and benefits of membership which may be established and approved by the Executive Board. The Executive Board of the Conservancy may establish other classes of membership which may or may not have voting rights.

### 3.2 Membership Acceptance

Upon application for individual membership and payment of the appropriate annual dues, the applicant is accepted as a member of the Conservancy.

Upon application for organizational membership and payment of the appropriate annual dues, the Board shall decide to accept an applicant for membership.

### 3.3 Member's Declaration of Membership

Upon membership acceptance, an individual or organization may declare itself a member of the Conservancy, subject to annual renewal through payment of dues. Organizational members may designate themselves "a member of" or "affiliated with" the Indiana Karst Conservancy.

### 3.4 Revocation of Membership

Individual or organizational membership in the Conservancy may be revoked by the Executive Board by a 2/3 positive vote. Prior notification of the pending vote will be given to the member in question. Grounds for revocation of membership shall include evidence of action(s) by the member which are inconsistent with and in conflict with the purposes of the Conservancy.

## ARTICLE IV: MANAGEMENT OF THE CONSERVANCY

### 4.1 Executive Board

#### 4.1.1 Numbers

The Management of the Conservancy shall consist of an Executive Board composed of: a President, a Secretary, a Treasurer, and not less than four (4) nor more than twelve (12) Directors. The actual size of the Board, within the limits just described, shall be ten (10) percent (rounding any fraction up) of the total voting membership on the day of the Annual Business meeting.

Each Director shall be a member of the National Speleological Society, or agree to become one upon being elected.

#### 4.1.2 Terms of Office

##### 4.1.2.1 Officers

The three (3) Officers (President, Secretary, and Treasurer) will be elected annually for one year terms.

##### 4.1.2.2 Directors

Directors will be elected for two year terms, except as required to comply with the following election rule: No more than one half (1/2), or a fraction thereof, of the total number of Directors may be elected to two (2) year terms in any given annual election. Additional Director positions, if any, shall be elected for one year terms. This election rule will provide for two approximately equal contingents of Directors.

### 4.2 Responsibilities

The Executive Board shall determine the policies of the Conservancy, set annual membership dues, attend meetings, and authorize acquisition and disposal of properties and leases.

### 4.3 Executive Board Meetings

#### 4.3.1 Schedule and Frequency

The Board shall meet publicly no less than quarterly with the first such meeting designated as the Annual Business Meeting. The date of the next quarterly business meeting shall be set by the Executive Board before the adjournment of each meeting. Meeting dates shall be published in the minutes of the meeting at which they were set and shall be mailed to all Executive Board members.

Except for meetings of the Executive Board specially called for the purpose of amending the Bylaws, notice of which must be given in writing thirty (30) days in advance, additional meetings of the Executive Board may be held at any time.

#### 4.3.2 Quorum

A quorum of the Executive Board shall be necessary to conduct the formal business of the Conservancy and to adopt policies and positions. Two-thirds of the Executive Board shall constitute a quorum.

#### 4.3.3 Telephone Votes

The President may determine that a decision of the Executive Board is required prior to the next scheduled Board meeting and therefore may institute a telephone poll of the Executive Board. An attempt shall be made to contact all Board members for their vote. Two-thirds of the Executive Board must approve the measure before it may be considered a positive vote by the Board. A vote taken in this manner shall be recorded in the minutes of the next Executive Board meeting.

#### 4.4 Establishment of Committees

The Board has the authority to create and dissolve standing committees and/or ad hoc committees and to determine the organizational structure of each. The President has the authority to create and dissolve ad hoc committees.

### **ARTICLE V: OFFICERS' RESPONSIBILITIES**

The Officers shall have the usual powers of Officers in the administration of the affairs of the Conservancy.

#### 5.1 President.

The President's duties shall consist of the following:

- 1) Serve as the Chief Executive Officer.
- 2) Serve as Chair of the Executive Board.
- 3) Represent the Conservancy and act as the spokesperson in public affairs, on the councils of scientific organizations, and in business affairs.
- 4) Coordinate the explorations, scientific research, educational efforts, and land management responsibilities of the Conservancy.
- 5) Serve as an ex officio member of any special advisory committees that may be established by the Executive Board.

#### 5.2 Secretary.

The Secretary's duties shall include the following:

- 1) Assist the President in carrying out his/her duties.
- 2) Give notice of the Annual Business Meeting, other public meetings, meetings of the Board, and other specially called meetings of the Conservancy.
- 3) Maintain the office of the Conservancy and handle its correspondence.
- 4) Prepare records and reports required of the Conservancy.
- 5) Record the minutes of the Annual Business Meeting, quarterly meetings, and meetings of the Board.
- 6) Inform Directors of all Board actions.
- 7) Serve as Membership Committee Chair.
- 8) Distribute ballots in accordance with Election Rules.

#### 5.3 Treasurer.

The Treasurer's duties shall include the following:

- 1) Record, and maintain the receipts of the Conservancy and disburse monies for expenditures in accordance with the policies adopted by the Board.
- 2) Maintain adequate books and records showing disbursements and income, and issue quarterly financial statements.
- 3) Assist the Secretary in completing reports required of the Conservancy.

#### 5.4 Succession of Officers.

In the event of the temporary absence, ill health, or incapacity of the President, the Secretary, and in his/her temporary absence or incapacity, the Treasurer shall carry out the duties of the President.

### ARTICLE VI: ELECTIONS

Election to the Executive Board shall be by ballot. The Executive Board shall select a preliminary slate and a ballot shall be distributed at least thirty (30) days in advance of the Annual Business Meeting. No nominee's name may be included on the ballot without his/her express acceptance of nomination to a specific position on the Board. Final nominations and election of Executive Board members shall be the first order of business of the Annual Business Meeting. The newly elected Board will be seated immediately upon completion of the election. Individual members must register (sign in) prior to the start of balloting. Members wishing to vote by absentee ballot must return the ballot to the designated Teller prior to the meeting. Organizational members must present written documentation of their authority to vote on behalf of the organization they represent.

Each position shall be filled individually (one ballot per office). Individuals elected shall be determined by the candidate receiving the most votes and will proceed as follows: President, Secretary, Treasurer, and Directors. All Board vacancies will be filled on a single ballot with those individuals receiving the most votes being seated, up to the number of Board vacancies. Absentee ballots shall be valid for the first vote only.

#### 6.1 Election Tie

In the event of a tie the following rules shall apply:

In the election of an Officer, when first place candidates tie, a second vote shall be taken; however, only those candidates who tied on the initial ballot will be eligible to receive votes on the second ballot.

In the election of Directors, a tie within the group receiving the most votes shall be discounted except in the event of the tie occurring for the final position(s) to be filled or for the determination of two year and one year terms (per 4.1.2.2). A second vote shall be taken with only those candidates who tied on the initial ballot eligible to receive votes for the remaining position(s).

#### 6.2 Absentee Ballots

To insure the integrity of the secret ballot process, absentee ballots shall be assigned a numeric identification code at random prior to distribution through the mail. The Secretary or his/her designee shall maintain a confidential record of this code. At the Annual Business Meeting the designated Teller will advise the Secretary or designee of the code numbers of the absentee ballots received for inclusion in the voting process. The Secretary or designee shall then compare the registration (sign in) list with the absentee ballot codes. Any absentee ballot(s) received from individual(s) in attendance at the meeting will be disallowed. The Secretary or designee shall notify the Teller of any ballot(s) to be disallowed by code number. The Teller shall not be made aware of the identity of the member(s) by code number, nor will the Secretary have reason to see or learn of the individual votes cast by the Teller.

**ARTICLE VII: VACANCIES ON OR AND REMOVAL FROM THE BOARD**

Should an Officer or Director fail to satisfactorily perform his/her duty, the Board may declare the position vacant by a two-thirds favorable vote.

Should a vacancy occur on the Board, the remaining Board members shall appoint a replacement to fill said vacancy. The person so appointed shall serve only until the next Annual Business Meeting.

**ARTICLE VIII: ANNUAL BUSINESS MEETINGS**

The Conservancy shall hold an Annual Business Meeting each March, notice of which shall be given in writing to the membership at least thirty days (30) in advance. The purposes of the meeting shall be to 1) elect the Officers and Directors, 2) review matters of policy and finance, and 3) update members on the business of the Conservancy.

**ARTICLE IX: AMENDMENT OF BYLAWS**

Amendments to these Bylaws may be proposed by a member of the Executive Board of Directors or by petition of the lessor of twenty-five (25) members of the Conservancy or one-fifth of the total membership.

These Bylaws may be amended by a 2/3 favorable vote after notification to the membership at least 30 days prior to voting that a Bylaw change is being proposed.

**ARTICLE X: NON PROFIT STATUS; POWERS AND LIMITATIONS****10.1 Authority**

The Conservancy is a non-profit corporation. Except as otherwise limited by the provisions of the Articles of Incorporation, the Conservancy shall have all the general rights and privileges and powers that may be conferred upon organizations under the Indiana Not-For-Profit Corporation Act of 1971.

**10.2 Payments**

No part of the net earnings of the Conservancy shall accrue to the benefit of or be distributed to its members, Officers and Directors, or any other private person, except that the Conservancy shall be authorized and empowered to pay reasonable compensation for services rendered and to make payments and distributions in furtherance of the purposes of this organization as set forth in the Articles of Incorporation granted by the State of Indiana.

**10.3 Prohibition on Influencing Legislation**

No substantial part of the activities of the organization shall be to carry on propaganda, or otherwise to attempt to influence legislation and the Conservancy shall not participate in or intervene in (including the publishing of statements) any political statements on behalf of any candidate for public office.

**10.4 Restrictions to Preserve Not-For-Profit Status**

Notwithstanding any other provisions of these Bylaws, the Conservancy shall not carry on any other activities that are not permitted:

- A) by a corporation exempt from federal income tax under Section 501(c)(3) of the Internal Revenue Code of 1954 (or the corresponding provision of any future Internal Revenue Code), or



- B) by a corporation, contributions to which are deductible under Section 170(c)(2) of the Internal Revenue Code of 1954 (or the corresponding provision of any future Internal Revenue Code).

#### 10.5 Member Liability

No individual or participant in a group visiting a cave or property owned or managed by the Conservancy may be expected or required to pay any fees or costs in excess of the actual shared trip expenses. Groups requesting permission to visit Conservancy properties must agree in writing to this policy. Violation of this policy will be sufficient reason for denying any group permission to visit said properties.

### ARTICLE XI: DISSOLUTION

In order to dissolve the Conservancy it shall be necessary to receive the unanimous vote of the membership or their written proxies attending the Annual Business Meeting or a meeting specially called for the purpose, notice of which shall be in writing at least thirty (30) days in advance of such meeting.

Upon dissolution, the assets of the Conservancy remaining after payment of just debts or debts ordered paid by law, are to be turned over to the town, city, or county, respectively, where the particular assets are located, provided said unit is willing to accept same and carry on the purposes of this Conservancy for said assets; otherwise to some similar non-profit organization whose intents and purposes encompass those of this Conservancy such as the National Speleological Society or The Nature Conservancy, providing said organization is willing to accept same and carry on the purposes of this Conservancy for said assets; otherwise, said assets are to be turned over to the State of Indiana. It shall be the duty of the President upon dissolution to make arrangements for the transfer of assets. Under all circumstances, the transfer of assets must be consistent with Article IX of the Articles of Incorporation.

### IKC EXECUTIVE BOARD ELECTIONS

One of the items to be accomplished at the Annual Business meeting is the completion of the elections. The election process starts with the identification and nomination of potential Board members. A ballot is then distributed to the membership and optionally returned to a designated teller. At the meeting, final nominations are accepted and votes are cast. This year as with past years, it has been difficult to find nominees for the three Officer positions, and each candidate is currently running unopposed. Finding interested members to run for the Director positions is an easier task, and it was appreciated that several "new faces" came forward to accept the nominations (although a couple these of candidates later withdrew due to other commitments). However, with the membership growing, the Board will be expanding to several more positions, so the number of nominees is still not over whelming. It is not too late to come forward to serve (and one member has). If you are interested, contact Keith Dunlap.

Nominations thus far are: President, Keith Dunlap; Secretary, Bill Tozer; Treasurer, Jane Miller; Directors, Glenn Lemasters, Mike Miessen, Lynn Miller, Ray Rough, Eric Schmidt, and John Vargo.

# INDIANA KARST CONSERVANCY, INC.

## Statement of Receipts, Expenditures, and Changes in Fund Balance for the Quarter Ending 12/31/90

### GENERAL FUND

#### RECEIPTS

DUES	60.00
DONATIONS	50.00
INTEREST	44.61

#### TOTAL RECEIPTS

154.61

#### EXPENDITURES

DEVIL'S GRAVEYARD	80.84
POSTAGE, GENERAL	86.54
HEC CONGRESS	15.00
BOLT CUTTERS	24.10

#### TOTAL EXPENDITURES

206.48

#### EXCESS TO FUND BALANCE

-51.87

FUND BALANCE 09/30/90

2559.14

FUND BALANCE 12/31/90

2507.27

### HANCOCK PROPERTY

#### RECEIPTS

0.00

#### EXPENDITURES

0.00

#### EXCESS TO FUND BALANCE

0.00

FUND BALANCE 09/30/90

336.52

FUND BALANCE 12/31/90

336.52

TOTAL BALANCE - ALL FUNDS 12/31/90

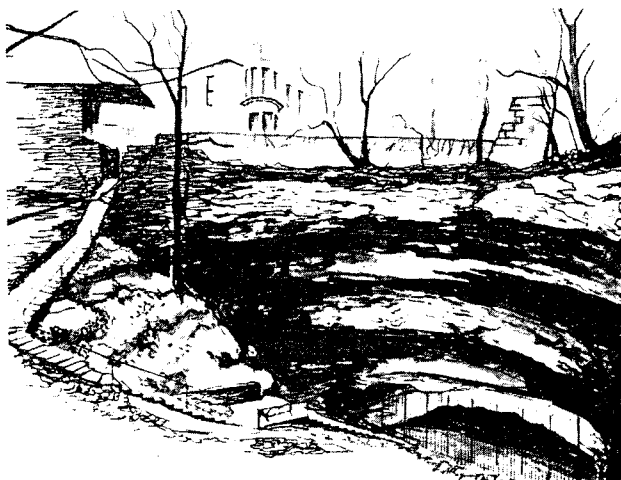
2843.79

The American  
Cave Conservation  
Association announces

## THE 1991 NATIONAL CAVE MANAGEMENT SYMPOSIUM

A symposium designed for cave  
managers, scientists, and cave  
conservationists

OCTOBER 23-26, 1991  
THE EXECUTIVE INN  
BOWLING GREEN, KENTUCKY



## IKC QUARTERLY MEETING MINUTES

Saturday, December 8th, 1990  
Bloomington, Indiana

### BOARD MEMBERS PRESENT:

Keith Dunlap  
Mike Miessen  
Jeff Cody  
Glenn Lemasters

### BOARD MEMBERS ABSENT:

Lynn Miller  
Jane Miller  
Ernie Payne

Tom Rea

The meeting was called to order at 7:15 p.m. Introductions were made. Thirteen members and visitors were present.

**Wayne's Cave Annual Cleanup Trip** - Sunday, December 9, 1990. Anticipating a good turnout.

**Southwest Highway Corridor** - Lots of money being spent on pre-work. A variety of engineering firms have completed studies. Project will probably be gearing up in spring.

**Under Earth Day II** - Our under earth day event was a great success in 1990. We are planning to repeat it again in April, 1991. Sullivan's Cave will again be the location.

**The Great Lakes Adventure Club** - This organization has invited the IKC to attend their February cross country ski, hike trip in Michigan. Contact Keith for further information.

**Hoosier National Forest Activities** - Inventorying project is under way with approximately 30 people working. Activity in Tinchier Hollow and Little Africa. Tinchier Hollow could be designated as a fairly large SIA (Special Interest Area). There will be a training/ orientation program on the forest at the end of the month.

- Tom Miller is doing geologic/hydrologic work on the HNF. He is looking for volunteers/assistants. He will also be training assistants near the end of the month. Contact Tom if you are interested.
- CIG is proposing a ridge walk trip on the HNF in March.
- IKC may schedule a HNF trip on the weekend of the Annual Business Meeting in March.

**Annual Natural Areas Conference** - Will be held in the Corydon area (Harrison-Crawford State Forest) the weekend of May 18, 1991. The conference is organized by the Division of Nature Preserves and will focus on the unusual features of the Mitchell Karst Plain and will contain a variety of speakers on a variety of topics. The IKC has been encouraged to take our information booth to the conference; we have also been asked to be a sponsor of the conference. Hank Huffman suggested that we might want to present a cave program for Saturday evening.

**IKC Informational/Membership Brochure** - We are looking for a volunteer to revise and update this publication. New artwork would also be appreciated. If you are interested in working on this project, please contact any one of the officers.

**Bylaws Revision** - Principal changes include 1) creation of a category of membership for organizations, 2) establishment of a procedure for allowing telephone votes, 3) clarification of the responsibilities of the Executive Board. Keith Dunlap made a motion, seconded by Ernie Payne, to accept the revised bylaws. Motion passed. Complete bylaws will be published in the March UPDATE.

**Nominations for Executive Board** - Anyone interested in serving as an officer or director should contact a current officer. There will be a Board meeting in early February to develop a slate of candidates. Ballots will be mailed in mid-February. Elections will be held at the Annual Business Meeting in March.

continued...

**Sullivan's Sign** - Tim McClain is routing a new informational sign (including a reference to the cave law) to replace the current sign at Sullivan's. We anticipate that this sign will be installed at Under Earth Day II.

**Cave Patrons** - We are looking for volunteers to serve as cave patrons for caves in the Bloomington area. Serena Smith volunteered.

**IDNR Activities** - The state spending and hiring freeze and the freeze on issuing contracts has jeopardized the completion of the bat disturbance project and the Wyandotte gate replacement. The fall population census was done without a contract. The spring sampling is in question.

-- Members are encouraged to WRITE THE GOVERNOR to request information on the basis of the freeze, particularly of non-game donations.

-- A Greene county property which includes Ashcraft Cave has been donated to the State.

-- Ten acres of the Big Spring property has been donated to Nature Preserves.

**Mud Sprayer** - There is a commercially available stucco sprayer available. Keith Dunlap moved and Jeff Cody seconded that the IKC spend up to \$100 to experiment with one of these sprayers. The motion passed with one dissenting vote.

**Science and Research Committee** - Kevin Strunk, the current chair, has resigned his position. Kevin's resignation was accepted by the Board. We are now in need of a volunteer to chair this committee. Please contact an officer if you are interested.

**P O Box** - Our new mailing address is P. O. Box 2401, Indianapolis, IN 46206-2401.

**Poster Distribution** - Keith Dunlap moved and Jane Miller seconded Keith's proposal to distribute three karst related posters to our members: The IDNR non-game karst poster, the Virginia Cave Board poster, and the Missouri cave poster. The motion was passed.

**Gleanings from Nature Reprint** - This publication will possibly be distributed with the karst posters in the spring.

**Federal Cave Resource Protection Act** - No news.

**Annual Business Meeting** - 10:00 a.m., Saturday, March 23, 1991, Indianapolis. Elections and planning for the future.

**Greenspace** - Hank Huffman reported that both the Central Indiana Land Trust (Indy) and the Sycamore Land Trust (Bloomington) are seeking to acquire greenspace. Hank encouraged the IKC to become involved with these groups.

**Certificate of Appreciation** - Scott Johnson presented the IKC with a Certificate of Appreciation from the State Non-Game Program for our assistance.

**Chicago Field Museum of Natural History** - Jay Savage (Windy City Grotto) reported that the museum is undergoing major renovation and is interested in developing displays on bats and/or the life of a cave. However, the bat/cave displays are unfunded at this time. The museum is seeking funds and specimens. The new displays are scheduled to debut in November, 1991. Jay has already contacted several organizations, including BCI, concerning this project. Hank Huffman made a motion, seconded by Keith Dunlap, to donate funds to FMNH contingent upon our receiving written reassurance that bats will not be unnecessarily destroyed to provide specimens for this display. Motion passed. Keith Dunlap made a motion, seconded by Jane Miller, to donate up to \$200 to FMNH contingent upon a matching donation from Windy City Grotto. Jay will take this information back to WCG and will keep us advised.

The meeting was adjourned at 9:20 p.m.

Submitted by Jane E. Miller, Secretary.

## IKC BOARD MEETING MINUTES

Friday, February 1st, 1991  
Indianapolis, Indiana

### BOARD MEMBERS PRESENT:

Keith Dunlap  
Mike Miessen  
Jeff Cody  
Glenn Lemasters

Lynn Miller  
Jane Miller  
Tom Rea

### BOARD MEMBERS ABSENT:

Ernie Payne

The meeting was called to order at 7:42 p.m.

**Officers/Directors** - A potential slate of officers/directors for the upcoming elections was discussed. Keith will contact potential new officers and directors to determine their availability to serve. Membership numbers indicate that we will be adding two new directors and replacing two directors whose terms are expiring.

**Indiana Natural Areas Conference** - IDNR Division of Nature Preserves is organizing the 10th annual Indiana Natural Areas Conference, which will be held in Corydon and Wyandotte Woods on Saturday, May 18th. Hank Huffman is actively involved in the planning of this conference on the unusual features of the Mitchell Karst Plain. The IKC is a co-sponsor of the conference and will present a slide show Saturday evening. Glenn Lemasters and Lynn Miller will be responsible for preparing this slide show. Members are encouraged to attend this conference. Registration begins March 4, 1991.

**HNF Ridgewalk** - IKC is coordinating a ridgewalk on the Hoosier on Sunday, March 24th. All members are encouraged to participate. We will meet at 9:30 a.m. at the Forest Service office in Bedford. There will be a brief orientation session before proceeding to the forest. We will plan to walk approximately 4 hours.

**Under Earth Day II** - Our under earth day event was a great success in 1990. We will repeat it on Sunday, April 21, 1991 at Sullivan's Cave, beginning at 10:00 a.m.

**Annual Business Meeting** - 10:00 a.m., Saturday, March 23, 1991, Patton Hall, Indiana War Memorial Building, Indianapolis. Elections and planning for the future. Members are encouraged to attend.

**Hoosier National Forest Activities** - Project areas are being defined; inventory forms are being developed. Some inventorying is in progress in Tincher Hollow and Little Africa.

- The final copy of the HNF Management Plan should be available at the Annual Business Meeting on March 23rd.
- Frank Voytas, Forest Supervisor will attend our business meeting to present an award to the IKC.

**IKC Information Brochure** - Following elections in March, a committee will be formed to review and update the text of this brochure as necessary. New artwork is needed. Contact Keith if you are interested in assisting with this project or if you have artwork to contribute.

**Bat Census** - The bi-annual bat census is underway currently.

**Membership Renewal/Solicitation/Benefits** - Keith will prepare a letter encouraging grottos and other caving related organizations to become members of the IKC. A second letter will be prepared to the individual members inviting renewal. Both letters will address the advantages of membership. We will soon be distributing copies of three karst posters and our reprint of Blatchley's chapter on caves from his classic book, "Gleanings From Nature."

continued...

**Annual State Filings** - Keith inquired as to the status of our two required filings. Jane reported that the necessary forms have yet to be received from the state. The required documents are the Indiana Department of Revenue Return of a Not-For-Profit Organization Exempt from Indiana Gross Income Tax and the Report of Indiana Non-Profit Corporation which must be filed with the Secretary of State.

**Update Deadline** - The deadline for submission of articles for the March issue of the UPDATE is March 8.

**Mud Sprayer Status** - This apparatus has been purchased. It shows good potential as a mud sprayer. The key remaining issue is identifying a power source for the sprayer.

**Chicago Field Museum Remodeling** - We have received a follow-up letter from Jay Savage of the Windy City Grotto. The WCG will vote soon on our matching donation proposal. The Museum is working on the letter requested to address our concerns about the potential destruction of bats for the exhibit.

**Science and Research Committee** - A questions was raised concerning the status of the sedimentation study report that we were to have received for providing funding. Keith will inquire of Kevin Strunk. Discussion was held to identify a possible new chair for this committee. Preliminary discussions were held to define the responsibilities of this committee: encourage research and scientific publication; generate and follow-up on projects; establish budget and guidelines; conservation and preservation.

**GLAC Invitation** - Jane will contact the GLAC thanking them for their invitation to attend their cross country ski weekend.

**Remember** - Our new mailing address is P. O. Box 2401, Indianapolis, IN 46206-2401.

The meeting was adjourned at 9:20 p.m.

Submitted by Jane E. Miller, Secretary.

---

\*\*\* IKC MEMBERSHIP LIST \*\*\*

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Bloomington Indiana Grotto  
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Bloomington, IN 47401

Hoosier National Forest Office  
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c/o Jay Jorden, Editor  
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Michigan Interlakes Grotto  
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Michigan Karst Conservancy  
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John Tichenor  
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Richmond, VA 23226

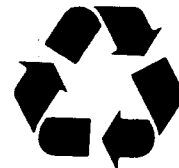
Eastern Indiana Grotto  
c/o Jerry Litaker  
1009 North 18th Street  
Elwood, IN 46036

NSS Library  
Cave Avenue  
Huntsville, AL 35810

Lester L. Zimmer  
115 Bel Aire Drive  
New Whiteland, IN 46184

Fish & Wildlife Service  
Federal Building  
Fort Snelling  
Twin Cities, MN 55111

Wittenburg U Speleo. Soc.  
c/o HH Hobbs,  
Wittenburg University  
PO Box 720  
Springfield, OH 45501



**Recycled Paper**

Fort Knox Grotto  
c/o Steve Gray  
263 Forest Trace  
Radcliff, KY 40160

Evelyn Bradshaw  
1732 Byron Street  
Alexandria, VA 22303

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 ☐

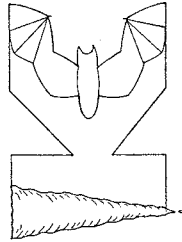
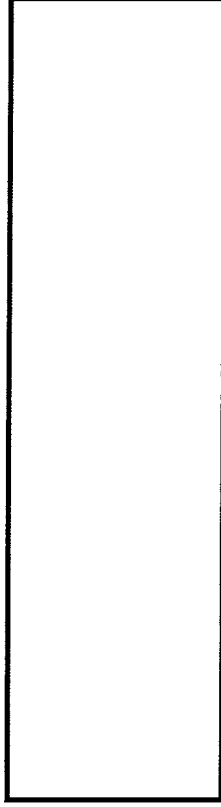
Suggestions for other interested persons (names and addresses please):

\_\_\_\_\_  
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**INDIANA KARST CONSERVANCY**  
**PO BOX 2401**  
**INDIANAPOLIS, IN 46206-2401**

**FORWARD & ADDRESS CORRECTION**

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