

IKC UPDATE

**A Quarterly Publication of The Indiana Karst Conservancy
June 2001 Number 61**

INDIANA KARST CONSERVANCY, INC.

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



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

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Grotto Cave

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Bloomington Indiana Grotto

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Cover: Andrea Anes in Buddha Cave (Lawrence County). Photo by Scott Fee (1991).

Newsletter staff: Keith & Bambi Dunlap



QUARTERLY MEETING REMINDER

SATURDAY, JUNE 9th, 6:00 PM

BLOOMINGTON, INDIANA

IU GEOLOGY BUILDING, ROOM 143

(SAME ROOM AS BIG MEETING)

The quarterly meetings are for the elected Board to conduct business and for our members and other interested persons to have an open forum to talk about cave and karst conservation and related topics. Past, present, and future IKC projects are discussed to solicit comments and input from our members and the caving community as a whole. The meetings are informal, and everyone is encouraged to attend and participate. The IKC Board *wants* your input.

Preliminary Agenda Items: Brief recaps of last quarter's activities; Buddha Property/Cave acquisition, Management Plan (interim and long-term), funding (fund-raising, grants, Indiana Heritage Trust); Bylaw revision proposals; Shaft Pit fence proposal; Sullivan trees and maintenance; DNR abandoned mine gate project; HNF kaolinite mine gatings; Land Acquisition Committee activities, HNF inventorying project; HEC membership renewal; and more....

Meeting directions: The Geology Building is located at 10th and Walnut Grove. Tenth Street runs east/west and is one of the major streets that cut across the IU Campus. Park behind the building, parking permits are not enforced at night. Enter the building from the rear at the west end. The room is halfway down the hall on the right.

ACTIVITIES CALENDAR

- 09 JUN = LEONARD SPRINGS NP WORK PROJECT, Bloomington
- 09 JUN = HANCOCK/WAYNES PROPERTIES WORK DAY, Bloomington
- 09 JUN = IKC QUARTERLY MEETING, Bloomington (see above)
- 16 JUN = HNF FIELD WORK DAY, contact Kriste Lindberg
- 23/24 JUN = DNR ABANDONED MINE GATING, Vermillion County (see page 6)
- 14 JUL = HNF COMMITTEE MEETING/FIELD DAY, contact Kriste Lindberg
- 18 AUG = HNF FIELD WORK DAY, contact Kriste Lindberg
- 15 SEP = HNF FIELD WORK DAY, contact Kriste Lindberg
- 29 SEP = LOST RIVER TOUR, Orleans (contact Bob Armstrong)
- 16-19 OCT = NATIONAL CAVE & KARST MANAGEMENT SYMPOSIUM

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

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

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RAMBLINGS FROM THE PRESIDENT...

The cover photo of this issue of the *IKC Update* shows some of the nice formations in Buddha Cave. Normally, this would not be a particularly big deal; but things are a little different this time. That's because, as of this month, the IKC now owns most of the cave along with 37 acres of property. Cavers who have been around awhile may recognize this as the cave that graced the cover of the *1992 NSS Convention Guidebook*. Buddha Cave has a little bit of everything: a large entrance room, some crawling, exposed climbs, a 20-foot rope/ladder drop, and a very nicely-decorated (although short) stream passage.

But that's not all! The property contains a number of surprises, including a "bonus cave" that has been whimsically (and tentatively) named Hindu Cave. There are several springs, a number of wet-weather swallets, dozens of sinkholes of all shapes and sizes, and two ponds. The property offers excellent opportunities for education, restoration and reforestation, recreation, and conservation. Although we haven't gotten deeply into a management plan yet, an interpretive trail is a definite possibility; and we also anticipate a fairly liberal cave access policy.

Of course, when someone comes up to me and starts speaking of opportunities, that usually means **WORK**. Work to plant trees, work to design and build trails, work to develop and implement a management plan, and work to manage cave access. In this case, it also means work in **RAISING MONEY**. We have found a few benefactors to help us bankroll the initial purchase via short-term loans, but the bottom line is that the IKC now finds itself in debt all over

again. We hope some grant and Indiana Heritage Trust monies will relieve some of the pressure, but such pursuits are always speculative. Therefore, we're asking our membership and other interested parties to pull out their wallets again. Trust me, this property is definitely worth it!!

The Buddha property will be the fourth piece of land that the IKC will hold significant financial interest in, and the third property that we own outright. Don't look now, but we're becoming a real land trust! Please see a related article on page 8 for more information on the cave/property, and the enclosed flyer for instructions on how to make your contribution.

Oh, by the way...I'm President of the IKC again. I'd like to think that my return to the helm had a lot to do with us getting this new property. But the truth is that we've been pursuing this acquisition since before the elections, largely at the initiative of Keith Dunlap. So I'd like to take a moment to thank Keith for his work in this regard, and for his perseverance when we ran into some glitches and setbacks.

Last, but certainly not least, I want to thank the outgoing President, Kriste Lindberg. Kriste has done an admirable job leading this organization over the past two years, and has been instrumental in expanding both our educational outreach efforts and overall visibility. I'm sure that, in her capacities as Secretary and Chair of the Education Committee, she will continue to be very influential in shaping the direction of this organization.

Bruce Bowman



photo by Keith Dunlap

Bruce Bowman and Steve Lockwood at the northwest corner of the Buddha property looking southeast across the karst terrain.

NEWS BRIEFS...

- ❑ IKC elections on March 24th yielded a few changes to the Executive Board. Bruce Bowman was elected President after a two year hiatus (actually he served as a Director and Secretary during those two years). Kriste Lindberg was elected Secretary (after serving as President for the past two years). Keith Dunlap was re-elected Treasurer. Directors elected/re-elected were Bruce Devore, Dave Haun, Nick Noe, Tom Sollman, Dick Vernier, and Kathy Welling. The other Directors serving out their second year of their two-year term include Jim Adams, Steve Lockwood, Tom Rea, Bob Sergesketter, Bill Tozer, and Bob Vandeventer. We would like to express our appreciation to Bambi Dunlap and Don Ingle as out-going Directors.

- ❑ The first of two work weekends for installing bat gates on abandoned coal mine entrances for the Indiana DNR was completed May 12/13th. Sixteen volunteers constructed two gates, one near Nyesville, and the other near Coxsville. Because everyone put in an extra effort and worked late, we finished all the iron work on Saturday with only the painting to be completed on Sunday. The final work weekend will be June 23/24th (see page 6). A complete report on both work weekends will be in the September *IKC Update*.

- ❑ In late March, a number of Indiana contingents attended a three-day symposium on the biology and management of the Indiana bat. The symposium focused on current research and management techniques to promote information sharing and facilitate methods to protect this endangered species. Scott Johnson, Virgil Brack, and Keith Dunlap co-authored a paper on techniques that have been used successfully here in Indiana, including temperature monitoring, winter disturbance monitoring, and access management. Indiana-related attendees included Scott Johnson (DNR), Katie Smith (DNR), Ben Hubbard (DNR), Kelle Reynolds (HNF), Ken Day (HNF), Steve Olsen (HNF), Scott Pruitt (USFWS), Lori Pruitt (USFWS), John Whitaker (ISU), Mary Livingston (Ray's Cave), Virgil Brack (ESI), Keith Dunlap and Bambi Dunlap.

❑ Over the past eleven years, the Indiana DNR and the IKC have been monitoring Coon, Grotto, and Jim Ray's caves for winter disturbances in these critical *Myotis sodalis* hibernacula. This monitoring is done passively with electronic "spelloggers" which are installed near the entrances of the caves and record the date and time of each human disturbance (triggered by light). The information collected is providing a means to determine the effectiveness (or ineffectiveness) of our closure methods in discouraging unauthorized entry. In the fall of 1996 we installed new signage and other deterrents. As you can see, since that time there have been no unauthorized visits into Grotto Cave and only one in Coon Cave. Ray's Cave has had a few more disturbances, but none during the core winter months when the greatest impact would occur. This was the second year the DNR used the new spelloggers designed/constructed by IKC member Dick Vernier. The DNR is also monitoring several other caves using these spelloggers.

Winter	Number of Disturbances		
	Jim Ray's	Coon	Grotto
00 / 01	0 ⁽¹⁾	0 ⁽¹⁾	0 ⁽¹⁾
99 / 00	2 ⁽²⁾	0	0
98 / 99	3 ⁽¹⁾⁽³⁾	0 ⁽¹⁾	0 ⁽¹⁾
97 / 98	1	1	0
96 / 97	0 ⁽¹⁾	0 ⁽¹⁾	0 ⁽¹⁾
95 / 96	3	9	4
94 / 95	8 ⁽¹⁾	8 ⁽¹⁾	5 ⁽¹⁾⁽⁴⁾
93 / 94	-- ⁽⁵⁾	-- ⁽⁵⁾	-- ⁽⁵⁾
92 / 93	7 ⁽¹⁾	3 ⁽¹⁾	8 ⁽¹⁾
91 / 92	6	1	5
90 / 91	4 ⁽¹⁾	8 ⁽¹⁾	n/a

1) Excludes one visit for biennial bat census
 2) Includes two visit for landowner's relatives
 3) Excludes one visit for anabat testing
 4) Spellogger failed on day 182 of 227 days
 5) Data loss due to improper batteries

- ❑ At the March meeting, an ad hoc committee was formed consisting of Bruce Bowman, Keith Dunlap, Tom Rea, and Bill Tozer. The sole task for the committee is to review the bylaws and propose potential changes to revise or clarify various procedures. These proposals will be presented to the Board at the June meeting and those accepted will be communicated to the membership and likely acted upon at the September meeting. The preliminary proposals of the committee to the Board will include: 1) Approve draft editorial changes that clarify the original intent of the bylaws and provide consistent terminology; 2) Change director terms from 2 to 3 years and modify election process to correspond; 3) Stipulate that Robert's Rules



of Order will define our default meeting process; 4) Modify Secretary/Treasurer responsibilities for convenience (same person who takes money also maintains membership database); 5) Add requirement that the Board will approve the election ballot; 6) Change election process so the new Board is seated after the Annual Business Meeting (currently is done immediately after the election in the middle of the meeting); and 7) More clearly define a process to fill Board vacancies.

- ❑ The IKC covers most of its basic expenses and obligations with membership dues. However, we are greatly dependent upon general donations to supplement and support many of our other projects. Since December, thirty-eight individuals/organizations have donated a total of \$1141. Donors include Ken Alwin, David Anderson, Don Bohling, George Brutchten, George Cesnik, Martin Church, Jeff Cody, Bruce Devore, Mike Dewitt, Andrew DuBois, Jeff Farr, Tina Hall, Hal Hemepe, Tim Heppner, Tem Hornaday, Pat Jarboe, Dan Lucas, Dick Maxey, Jon Miller, Nick Noe, Ernie Payne, Charles Perlins, Everett Pulliam, Jan Pursley, Russ Pusilo, Russ Romme, Robert Roundy, Ralph Sawyer, Steve Schuh, Bob Sergesketter, Dave Taylor, Steve Taylor, Dick Vernier, Kathy Welling, Norbert Welch, Scott Worpell, Bob Zatarski, Bluespring Caverns, and Marengo Cave.
- ❑ IKC members also have an opportunity to donate to our cave acquisition fund. This restricted fund as the name implies, is to be used for the future purchase of additional cave/karst properties (which we now know is Buddha). Since December, \$9,030 has been donated, bringing the fund to a total \$10,655. Contributors include Bill Ackerman, Ted Bice, Bruce Bowman, Chris Carpenter, Barb Capocy, Jeff Cody, Bob Decker, Bambi Dunlap, Keith Dunlap, Scott Fee, Tim Heppner, Gary Lester, Kriste Lindberg, Steve Lockwood, Nick Noe, Ernie Payne, Charles Perkins, Everett Pulliam, Jan Pursley, Steve Ragsdale, Tom Rea, Ralph Sawyer, Steve Schuh, Bruce Silvers, Tom Sollman, Norbert Welch, Scott Worpell, and the Dayton Underground Grotto.
- ❑ Eight new members have joined the IKC in the past quarter. Welcome Kelle Reynolds (378), Carita Noe (379), Shawn Noe (380), Sue Vernier (381), Charles Perkins (382), Scott Hammon (383), Randy Synder (245), Berniece Synder (384), and David McGowan (385). The IKC membership now stands at 192.

ABANDONED MINE BAT GATE PROJECT JUNE 23/24

Yes, we are doing it again! The Indiana DNR has contracted with the IKC to gate three more abandoned coal mine entrances this year. In the past, most of these mine openings were closed by bulldozing or grouting with concrete, but the DNR wants to be more pro-bat. Over the past three years, the IKC has constructed fourteen bat gates on mines. In exchange, the DNR covers all the costs of the materials and supplies, some volunteer out of pocket expenses, *plus* appropriately compensate the IKC for our efforts (allowing us to fund other activities and that all important land acquisition). This is a win-win situation, especially for the bats who are now living in these mines.

The work for the upcoming weekend will be at one site just west of Montezuma, Indiana (Vermillion County). We need about 20 hard working volunteers to get the steel transported and the gates constructed (the mine entrances are about 200 yards from the road). Much of the iron work should be completed on Saturday, but it is likely we will need some volunteers on Sunday morning too. Lunch will be provided on Saturday and camping will be available both Friday and Saturday nights (in Rockville). There are plenty of places to eat in Rockville for your other meals.

If you are interested and can help, please contact Keith Dunlap at 317-882-5420 or Keith.Dunlap@juno.com. The meeting time on Saturday will be 9 AM at the worksite. Specific directions will be provided to those who can help.

UNDER EARTH DAY XII

by Keith Dunlap

The twelfth-annual Under-Earth Day at Sullivan Cave was another success. While not all of the tasks got completed, the two key ones were accomplished thanks to the extra effort of everyone there.

The morning started out with a surprising light turnout with only about twenty smiling faces there by 10 AM. We immediately put everyone to work planting trees in the three-acre field towards the back of the property. After a brief training session, volunteers broke into groups of two or three, planting the various hardwood seedlings on a 9-foot by 9-foot spacing. What started out as a bright, sunny spring day, actually turned uncomfortably hot by noon. Sunburn and heat exhaustion became a real threat.

Luckily a few more volunteers filtered in throughout the day and all the trees were finally in the ground by about 4 PM. In all, approximately 1700 trees were planted in the ridge-top field with a mixture of oaks (red, white, black, scarlet, bur, chinkapin), hickory (shagbark, pignut), black cherry, persimmon, tuliptree, and white ash.

Once the trees were planted, the "fun" was just half over. We also had 125 bags of mulch to place around the seedlings. The mulch helps to control the weeds immediately around the trees, allows for easier mowing maintenance, and conserves moisture while the trees are young. Thanks to a very dedicated crew, about a half-dozen people stayed late and got most of the mulch down with the remainder spread on Sunday morning.

Tree planting is not a typical "caving" related conservation activity, but as the IKC acquires land, we also take on the responsibility of caring for those lands and also take on

the burden of paying insurance and property taxes on those properties. While reforesting the Sullivan Property is environmentally correct, it also allows us to enroll the entire property into the DNR's Classified Forest program, significantly reducing our property taxes to just a few dollars per year. Furthermore, the cost of the trees, mulch, and other maintenance expenses is being covered by a grant from the IPALCO Golden Eagle program.

The other major task for the day was the digging of a ditch along the new driveway to divert run-off towards the culvert. Heavy rains last year did some damage to the driveway because of improper drainage. Bruce Bowman and Steve Lockwood accomplished this task.

Other participants included George Cesnik, Jeff Cody, Bambi Dunlap, Keith Dunlap, Jeff Fraiser, Hal Hempte and family, Ariannah Koster, Isaiah Koster, Jordan Koster, Kent Koster, Melissa LeToundedu, Kriste Lindberg, Adam Manship, Everett Pulliam, Tom Rea, Jeff Sanders, Brian Schultz, Bob Sergesketter, Tom Sollman, Bob Vandeventer, Mark Webb, Kathy Welling, Cheri Winner, Jamie Winner, Ronald Winner, and Bob Zatarski.

After the work was done, several people visited the cave. Other took advantage of the good weather and camped overnight.

[Tree update: The warm spring gave the trees a head start, but six weeks of essentially no rain and army caterpillars caused some mortality. In recent weeks, the property has gotten some much needed rain, but it is still too soon to assess the success of our plantings.]

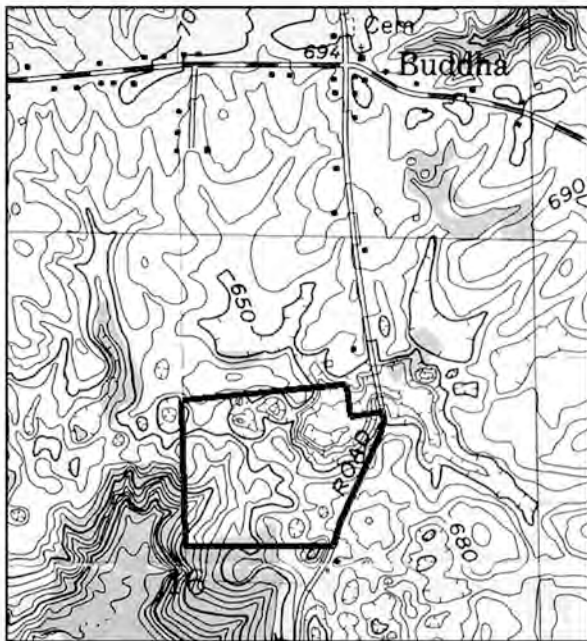


Volunteers planting hardwood seedlings (left) as part of the conservation activities of Under-Earth Day 2001.

BUDDHA CAVE -- IKC'S 3RD KARST PRESERVE

by Keith Dunlap

As Bruce Bowman announced in his Ramblings column, the IKC is now the owner of Buddha Cave in Lawrence County. The cave is not particularly large, being only about 3000 feet in length, but is nevertheless one of Indiana's classics, having been popular in the regional caving community for over fifty years. The cave has a very scenic entrance, is nicely decorated (see front cover), has not been vandalized, and is rather sporting...all values which make it desirable for the IKC to own and protect, while still allowing responsible access.



In addition to the cave, the IKC purchased nearly 37-acres which overlies the majority of the cave passage (but does *not* include the Christian Cave entrance/spring resurgence). The property is classical rolling karst with dozens of sinkholes of various shapes and depths. There is also a second unnamed cave on the property and at least two other potential caves. The hydrology for the property is also interesting with two springs and two sinking streams. There are also two small ponds advantageous for wildlife. The majority of the landscape is currently open pasture, but there are some trees to add to the view-cape. Overall, the property has real interpretive potential for a nature trail, should we choose to develop one.

In the near future, the Board will start working on a management plan to define how the property will be managed and main-

tained. It is likely the property will be placed under a conservation easement and potentially be dedicated as a nature preserve to assure long term protection and to reduce our financial burden in purchasing the property.

And speaking of financial burdens, it is no secret that land prices are escalating due to development pressures. The Buddha property was being sub-divided for housing lots and the 36.84-acres was purchased for \$73,680 (\$2,000/acre). While this sounds incredibly expensive for pasture land, the property was independently appraised at nearly \$83,000.

For the moment, the IKC has financed this deal with \$64,000 in interest-free, short-term loans from six IKC members. Further, \$7,000 has been donated in the past few days along with the \$3,555 that previously existed in the land acquisition fund. We *hope* to pay off part of the outstanding loans with grants from IPALCO and the Indiana Heritage Trust, but neither of these are sure things. Regardless, we need IKC members, and the Indiana caving community as a whole, to once again support this endeavor by making donations. We know most people can not donate \$1,000 or even \$100, but we ask that you donate or pledge what you can, as you generously did in purchasing the Sullivan Property. See the separate flyer for more specifics on how to make a donation. On page 9 you will see the start of the donation list. Anyone who has donated to the acquisition fund over the past three years should see their name on this list. If you would like to know the specific amount you have already donated, you can contact me.



Steve Lockwood standing in the entrance to Buddha Cave in Lawrence County.

BUDDHA DONATION LIST	
\$5,000 or more	
\$1,000 to \$4,999	
Bruce Bowman	
Bob Decker	
Keith Dunlap	
Kriste Lindberg	
Steve Lockwood	
Tom Rea	
Tom Sollman	
\$250 to \$999	
\$100 to \$249	
Aaron Atz	
Bambi Dunlap	
Don Peters	
Everett Pulliam	
Robert Roundy	
Gordon Smith	
Dayton Underground Grotto	
\$50 to \$99	
Jeff Farr	
Scott Fee	
Tim Heppner	
Gary Lester	
Nick Noe	
Ernie Payne	
\$5 to \$49	
Bill Ackerman	
Ted Bice	
Carl Brown	
Barb Capocy	
Chris Carpenter	
George Cesnik	
Jeff Cody	
Scott Hammon	
Dave Haun	
Dick Horn	
Jon Miller	
Scott Nordhoff	
Charles Perkins	
Jan Pursley	
Steve Ragsdale	
Larry Reece	
Jennifer Reiss	
Russ Romme	
Ralph Sawyer	
Steve Schuh	
Bruce Silvers	
Susie Strickland	
Mark Webb	
Norbert Welch	
Kathy Welling	
Rich Whisler	
Jamie Winner	
Scott Worpell	
Sub-Urban Grotto	
Last updated:	06/01/01
Donations total:	\$10,555.28

HNF/IKC KARST INVENTORY PROJECT UPDATE

by Kriste Lindberg

There are many activities happening with the Hoosier National Forest related to karst including Special Interest Area, cave critters being identified, education efforts, and cave management. It's a great feeling to see so many things you have worked so hard to help develop come to fruition.

The Special Interest Area Plan amendment is starting to be implemented. It will include a specific plan for each SIA, five of which are karst specific. The first to be worked on is Wesley Chapel Gulf. As an interim plan has already been put into place, the current plan will only need minor revisions, such as a section related to archaeology.

Speaking of Wesley Chapel Gulf... The Nature Conservancy is working on an eco-region plan which encompasses areas rich in a full spectrum of biodiversity. WCG will be included in this as five new sub-terrestrial species have been found there.

Personnel from the National Forest's Eastern Region plan to meet in July to focus on a set of standards and guidelines for consistent determination of classifying caves as "significant". As the HNF is a leader in this area, members of the HNF/IKC Karst Inventory Project team will be attending.

Plans to expand the HNF's cave and karst education program are expanding. They have applied for two grants to help with this endeavor (one for creating an information "trunk" which can be used when visiting local schools, the other to purchase a karst groundwater model like the one the IKC owns). We will be getting together with educators from the IDNR's Spring Mill State Park to work on ways we can work together on this.

On May 5, Steve Lockwood and Rick Hawkins, among others attended the HNF's Take Pride in America Day. They spent the day ridgewalking in the Deam Wilderness. One new cave was found!

Plans are underway to gate the four remaining open kaolinite mine entrances in Lawrence County. They will be gated to allow small critters ingress and egress, but not people. The IKC will likely be doing the work this fall.

As a reminder, a few HNF/IKC Karst Project t-shirts are still available. Hurry and volunteer some time so you, too, can receive one. They sport both the HNF and IKC logos, true-to-color and joined together, with the phrase "Partners in karst conservation". We have sizes M, L, XL, and XXL available. Proudly display your project pride!

REFLECTIONS ON THE ACKMA 2001 BY A FIRST TIME VISITOR TO AUSTRALIA

by Kriste Lindberg

"DELEGATES!"

I swear, this word as fondly announced by Kent Henderson, Australasian Cave and Karst Management Association (ACKMA) Fellow and Publications Officer, to call us back into order at the beginning of each new activity is still ringing through my ears. Well, maybe not constantly but when it does, it brings back some good memories of my first visit to an ACKMA conference. Actually, my first visit to Australia.

Planning for travel to the land down below began a couple of years ago, when I was hoping to go to the ACKMA 1999 conference with Bob Vandeventer, Tom Rea, and the others. However, it wasn't meant to be that year as it just so happened to fall during the same time I was leaving Indiana University to work for the more enriching City of Bloomington to help them develop Leonard Springs Nature Park. It would have to wait until 2001, no problem. Or should I say, "no worries, mate?"

The next thing you know, two years passed and Tom Rea and I were flying across the Pacific Ocean (14.5 hours from Los Angeles to Sydney). Then, we're getting picked up at Goulburn train station for the exciting ride through Taralga to Wombeyan Caves, where the actual conference was held.

Arriving at Wombeyan was an exciting experience, as was the rest of the week. So many things were familiar yet just a little bit different. Take for instance the seasons - they're reversed. Heck, even some of their caves form from the bottom up! Also, there were accents and new words to get used to. Thankfully, the words to describe things are similar enough to get the gist of. For example, those used in caving. Listed below are some of the more common terms in both Australian and American lingo:

<u>American</u>	<u>Australian</u>
bacon	shawl
soda straw	straw
rappel	abseil
flashlight	torch
watershed	catchment
trail	track

Then, there were the people. My goodness, I've never seen so many that happy as

a whole! No wonder, it's probably because Aussies tend to be more open and straight forward in their expression and have a more laid-back lifestyle. It was quite refreshing.

You can't forget the critters, either. There were new things to see slither, crawl, and of course... bounce. Kangaroos are really quite common in "the bush" (mind you, we were not quite in the "outback"). They are very similar in habit to our deer -- they come out mainly at dawn and dusk, eat peacefully in a variety of areas, associate communally with others, and can be found just about anywhere. You may think these creatures are awkward because of their unusual mode of locomotion, but think again... They're really quite agile. I saw one, joey (baby) in pouch, spring right up a steep hillside with hardly any visible effort at all. It was fun to get up in the morning to go for a brisk walk and encounter a few along the way.



I'm really impressed with the way they ran their conference, too -- having papers presented in the morning while the mind is fresh and more able to absorb challenging material and taking a break in the afternoon with fieldtrips. Excellent. Of course, morning and afternoon tea were a bonus. Again, very refreshing... literally!

Papers included a variety of subjects and their interrelations as relevant to the wise use of karst resources -- biology including Australian glow worms, cave access systems, education, the formation of certain caves from the bottom up and their repeated filling up and washing out over time, lighting tech-

niques and their affects/effects, management styles, the social dimensions of karst tourism, paleokarst, reduction of cave impact, and the list goes on...

For instance, Australian glow worms are interesting creatures. As the name implies, they are little worms that glow. They attach themselves to cave ceilings and walls by a film-like thread. They are not only fascinating from a scientific standpoint, but they are also important to cave tourism. As you can imagine, they are quite a draw, as they look like stars in a dark sky when viewed from a cave passage below. Many show caves taut these critters, therefore, much study is being done on them as well as the effects tourists are having upon their populations.

Tom and I also presented one paper each - he introduced our Sullivan Cave property and I expounded upon our education and outreach efforts. Both were well-received. I even picked up a copy of their version of our Project Underground, cave conservation education materials for kids. It will be interesting to compare the two.

Some of the more striking comparisons as far as cave management is concerned include the following:

- o There are a variety of cave access systems present, including metal bars for rappelling or "abseiling" off of so they don't have to tie off on trees.
- o Material including lint from clothing and dirt are occasionally removed from formations by washing them with water in order to present the color of their mineral constituents.
- o Many cavers are concerned about the act of driving their vehicles onto other people's property because of the fear of spreading invasive plants. It is considered a courtesy. One person even collected the sludge from a car wash, grew it, and identified the species present!

As you can see, there are those that are similar to ours and those which differ. Mind you, I debated about including some of them as they are so different, but I think the value of presenting them is important, keeping in mind the context of which they are in...

Tom and I joined in on a post-conference tour, too. There were two to choose from, the choice was difficult. But, as one involved "wild" caving, necessitating a whole cadre of gear that we didn't pack and the other did-

n't, it made the choice a bit easier. So, we chose the one that involved behind-the-scenes trips to two of the country's foremost show caves -- Abercrombie and Jenolan. Both outstanding in their own right. Not only are they beautifully decorated, but some of the passages are huge enough to drive a bus through!

Well, those are just a few brief reflections. I hope to see them again in 2003, if not before...

I should also say that some of the "locals" are even talking about possibly attending our National Cave and Karst Management Association in Arizona this fall, their spring. Our NCKMA and their ACKMA are quite similar in scope, the difference being that ACKMA is a bit broader and more inclusive. It's like combing a NCKMA conference and a National Caves Association conference into one event.

Finally, I'm in the process of preparing a PowerPoint presentation of photos taken at the conference in order to more fully illustrate some of the above. Also, if you would like more details on the papers themselves, just let me know, as I have the conference handbook, a few journals, and many other related materials.



Formations inside Korringa Cave, Australia.

EDUCATION AND OUTREACH COMMITTEE REPORT

by Kriste Lindberg

Your Education and Outreach Committee, consisting of Kriste Lindberg (Chair), Bambi Dunlap, Don Ingle, Bill Tozer, Bob Vandeventer, and Kathy Welling has been very busy over the last several months. We have many new, recent endeavors to report on. Read up and enlighten yourself...

Journey Into Amazing Caves -- This IMAX film is putting us and the Central Indiana Grotto in the limelight at the Children's Museum in Indianapolis, where the feature is being shown. On March 6, Keith and Bambi Dunlap, Bob Vandeventer, and Kriste Lindberg attended the world premiere of the show in Cincinnati, and on March 16, fifty-four cavers attended the Indianapolis premiere (some folks also attended the media premier the night before). The following day, Bambi and Kriste did a trial run at the museum to see how our planning for the event panned out and so we could relay ideas to the others. The two set up the IKC display, all sorts of caving gear, booklets, and handouts to look at, and a container of Play-Doh to use as a hook to bring kids in so we can talk with them about cave and karst education. It worked like a charm. The kids had a great time making cave formations, bats, etc, out of the dough. Their parents enjoyed it as well! Thanks also to Cindy Horn, Mike Dowden, Bill Greenwald, Tom Rea, Bill Tozer, Bob Vandeventer, Kathy Welling, and Dean Wiseman for volunteering at least one Saturday. And a special thanks to Don Ingle for his extraordinary efforts for volunteering at least once a week during the week. For more information on the film, visit their website at www.amazingcaves.com.

Indiana University's Bradford Woods -- On March 15 and 16, Kriste Lindberg presented a Project Underground workshop and subsequent fieldtrip to Leonard Springs Nature Park for this outdoor education satellite of IU. More on the event under Leonard Springs Nature Park Update (see page 14).

IDNR/Spring Mill State Park in collaboration with the Hoosier National Forest -- Plans are progressing with cave and karst education for both organizations. As a matter of fact, it was arranged for the two agencies to work together with the IKC on efforts where both organizations geographically overlaps,


mainly in Bedford and Mitchell. A Lost River fieldtrip led by Bob Armstrong and a Project Underground workshop are scheduled for the near future. Stay tuned.

IDNR/Wyandotte Woods inservice meeting -- On April 19, Kriste Lindberg had the pleasure of presenting an overview slide show on the IKC to a group of IDNR employees at Wyandotte Woods. The purpose of the meeting was to introduce employees of the IDNR, state-wide, to services available to them. Others presenting included The Nature Conservancy, EcoLogic, a bee-keeper, and a presentation on the hay press which will be resurrected at the site within the near future. New contacts were made and past acquaintances were strengthened.

Historic Hoosier Hills - On May 1, Don Ingle represented the IKC at the HHH educator workshop held at Muscatatuck National Wildlife Refuge near North Vernon. Don gave a presentation on karst, specifically on the karst region of southeastern Indiana, since this is where most of the participants were from. Groundwater pollution and impacts on caves and karst were the main focus points. A presentation by Bat Conservation International was also given.

IDNR/Division of Water -- On May 10, Bruce Bowman gave a three-hour presentation on karst conservation at the Nature Center in Spring Mill State Park. Roughly 35 employees of the DNR Division of Water actively participated in this training session. Topics ranged widely; including speleogenesis, dye-tracing procedures, hydrology in the park, caving as recreation, cave and mine gating, and even a discussion of how hazardous it is to be in a cave during an earthquake (it isn't). The karst groundwater model, in particular, was a big hit. Special thanks go to Hank Huffman and Rich Fields for loaning some of their aerial slides to this presentation. Bob Armstrong also attended and did both an abbreviated Lost River tour and his 3-D slide show.

Australasian Cave and Karst Management Association Conference 2001 -- From April 20 to May 6, Kriste Lindberg and Tom Rea at-

...continued on page 16 

THE INDIANA CAVE SYMPOSIUM 2001

by James Adams

The 9th annual Indiana Cave Symposium was held on Saturday, April 21, 2001, at Blue's Canoe Livery near Taylorsville.

Sponsored by the Indiana Karst Conservancy in partnership with the Indiana Cave Survey, the purpose of the annual event is to gather active caving groups together to share and discuss their projects, and for cavers and cave researchers to network. Speakers for the symposium are solicited from caving groups within Indiana and neighboring states. The emphasis is on exploration, surveying, science and conservation projects. It's always preferred that the talks be on activities within Indiana, however, exceptions are sometimes made if the caving group's most significant project is outside the state. This is an excellent way of showing off a grotto's recent projects.

A pitch-in dinner started at 5:00 PM in the shelter house. The ICS and the IKC provided dogs, burgers, cheese, buns, paper plates, plastic ware, napkins, condiments, soft drinks and ice. Everyone else brought the rest of the meal. This year's selection was excellent and included casseroles, veggies, munchies, and lots of delicious desserts.

The programs began at 7:00 PM, also in the shelter house. The weather was perfect

and the programs were spectacular.

After some opening remarks from Indiana Cave Survey President Bruce Trotter, Kriste Lindberg recapped recent projects of the Indiana Karst Conservancy and presented a demonstration of the IKC's karst/groundwater model.

Dr Jerry Lewis then presented Current Indiana Bio-Inventory Projects. Dr. Lewis' "bug" stories have always been a favorite of the symposium.

Ray Shelton then told about the Versailles State Park Karst Study that is underway. This was followed by a preliminary report on the results of this year's Indiana Bat count presented by Keith Dunlap.

The Bats & The Bees was the title of a presentation by Bill Greenwald. He told about a colony of carpenter bees that recently invaded an occupied bat house on his property.

However, the highlight for this year was a presentation on the discovery and exploration of the Lost River Cave system (aka EOC) in Orange County. Tony Cunningham, Mark Deebel, and Dave Tibbets presented many photos and a progression of maps of this growing and important system (currently 3rd longest in the state).

Krsite Lindberg demonstrating the karst groundwater model as part of her presentation at the Indiana Cave Symposium.



LEONARD SPRINGS NATURE PARK UPDATE

by Kriste Lindberg

This little nature park on Bloomington's southwest side continues to grow -- in scope, numbers of people we reach with cave and karst conservation messages, and as far as vegetation is concerned! This spring, we have seen the property go from brown to green. The redbuds, dogwoods, and wild-flowers have been magnificent. Jewelweed and other native plants continue to do well... as do the invasives.

Plans are underway to control these unwelcome plants, including multi-flora rose, privet, and vinca, to name just a few. We're working diligently with EcoLogic on this endeavor. More information will become available as plans progress. Lessons learned here will be applicable to some of the IKC-owned properties, as well.

We're also host to a IDNR collection site of the invasion of gypsy moths to the area. They are in neighboring states, already. Actually, I've heard news of them being reported in northern Indiana, too. These moths are quite destructive and we are taking efforts to stave off this insect pest.

This spring, speaking of invasives, we have discovered a few new "user" trails on the property. These trails are not part of the official system and create erosion. They are not welcome. Efforts will be made to contain them, such as cutting them off with brush, installing fences and trail markers, etc.

The above are all necessary steps that need to be taken in successful stewardship of a recovering natural area, as are the following more friendly educational accounts...

- o On March 15 and 16, I presented a Project Underground workshop to Indiana University's Bradford Woods. It included an in-class presentation and karst/groundwater model demonstration and was followed by a fieldtrip to Leonard Springs Nature Park. They loved it! As a matter of fact, Anna Gilmore, one of the attendees, is now working for Bloomington Parks and Recreation and helping us with cave and karst education at LSNP. We look forward to more collaborations with them.
- o On March 23rd, LSNP was home to a collaboration between IU students and Fairview Elementary School 3rd graders. The

IU students paired up with the elementary school students on a walk around park, which I led. All had a great time. This was an important turning point for many of the youngsters as many had never been to a park and seemed to be quite enlightened by the experience!

- o On May 10, we hosted IDNR summer interpreters training fieldtrip at the park. This is the second year in a row for this event. That day, about 19 interpreters were present, along with Jeff Cummings, Spring Mill State Park Naturalist. Anmar Mirza did a presentation for them on caving safety and I did one on cave and karst conservation and education. They enjoyed getting a lot out of the presentations as well as their trip through Shirley Springs Cave. We'll see what next year holds!
- o On May 19, the park was host to a portion of EarthFest 2001, a collaboration between the City of Bloomington and Monroe County at the county's Karst Farm Park. This year the emphasis was on local geology. Groups were bussed over to LSNP on regular intervals for tours of the springs section of the trail while visitors explored a man-made cave, Bob Armstrong and friend staffed a booth which included information on the Lost River, our karst/groundwater model and display, and other organizations presented their share of earth-friendly contributions at KFP. We hope this event was a success in increasing awareness of the need for environmental preservation.
- o The MOU between the city and BIG/IUSC is underway. Currently, it is moving through the city's legal department. More on this as it progresses...
- o I've also started a draft of the new LSNP brochure. It is currently in color and features essential information on the park, including an overview, what to see and do, tours and educational activities, what to bring when you visit, directions, etc.

Stay tuned on the progress of this important cave and karst conservation park...

WHY CAVE RESCUE IS IMPORTANT

by Anmar Mirza

As the recently appointed cave rescue coordinator for the IKC, I thought I'd write a bit on why it's important for the IKC to be involved in cave rescue and what I've done over the last few months since my appointment. I'd also like to take this opportunity to put down some of my thoughts on the philosophy of cave rescue in general, I promise that it will be relevant because it is difficult to separate the two. As many of you know, I have been involved in cave rescue almost all of the eighteen years I have been caving, and I am at present the Central Region Coordinator for the National Cave Rescue Commission.

When you are out hiking and become lost or injured and are in need of assistance, once someone is made aware that you need help, most regions have agencies or teams who respond. This is true for most outdoor type of activities. While there is a lot of volunteer effort involved in these Search and Rescue operations, there is also a large direct cost to the taxpayers who support the various rescue and law enforcement personnel who respond. A major search for a lost hiker can cost the taxpayers hundreds of thousands of dollars. These expenses have become so high that some areas, particularly rock climbing regions, have instituted rescue insurance requirements for people venturing out onto public lands. Caving is one of the very few activities for which large public cost for rescue isn't necessarily the case. A major cave rescue does cost a lot of money, but in most cases much of that cost is absorbed within the caving community, making us one of the few activity based communities that is by and large self-rescuing.

The exception, of course, is when governmental responsible agencies become deeply involved. By law these agencies are charged with the public protection which includes rescue, but they are very often very poorly trained and equipped to deal with a caving emergency. Experience has repeatedly shown that a major cave rescue can require over a hundred people directly underground, all of whom must be absolutely comfortable working in the underground environment. Very few agencies, even on a national basis, can muster that many rescue personnel. Even worse, many management operations and decisions which work very well in an above ground setting work poorly or even against the operation in a cave rescue environment.

Some portion of cavers have undertaken the job of being the caving community's rescue resource. Through the National Cave Rescue Commission of the National Speleological Society, resources and training for cave rescue have been developed over the last two or three decades. The NCRC has trained both caver and agency personnel alike in the intricacies of cave rescue. Most of the NCRC is comprised of active cavers, many of whom are also involved with Search and Rescue agencies in various capacities.

Cavers rescuing cavers is almost a motto in the caving community. Many of us take some measure of pride that our hobby/vocation has both a low accident rate and the fact that we take care of our own. Caving done responsibly therefore has a very low social cost and as such we have avoided much governmental regulation of our activity.

This is the important part: the fact that cavers train in cave rescue is why most of the major operations in the last two decades have been performed successfully! Floyd Collins is perhaps the most extreme example of how much of a circus a cave rescue can become, to the detriment of the injured party. As rescue techniques and equipment has matured, the success rate of difficult rescues has gone up.

When it comes down to it, the best people to perform cave rescues are the people who are very familiar with the cave environment and who have obtained formal training in rescue. Your average fire-rescue department does not have the budget to train people properly for cave rescues, which is impractical anyway because of the relative infrequency with which such rescues need to be performed. Taxpayer dollars are much better spent on fire fighting equipment or law enforcement tools, things which will be used frequently and benefit the general public at large to a much greater degree.

Because of their legal responsibility to respond, these agencies must be involved in cave rescue, but the most effective ones take an active role in fostering good working relationships with the cavers in their areas who are trained in cave rescue. The Sides Cave rescue of Dr Chris Groves in January of 2001 where the National Park Service called upon rescue-trained cavers early and supported them utterly is an excellent example of this. On the other side of the coin, the least effective agencies are the ones who exclude the



caving community from rescue planning. These agencies are directly responsible for the often times many hours delay in getting properly trained people in sufficient quantity to the scene. I will not mention specific examples here in order to not further ill will between the caving community and those agencies, but in my fifteen years of being involved in cave rescue I have collected far too many examples of the latter.

I have on occasion heard the argument that preparing for cave rescue simply encourages people to take risks. I have yet to hear anyone who has made a serious effort to obtain cave rescue training say this, what almost all of us find out is that by being involved in cave rescue training we become much more careful cavers because we know just how difficult a cave rescue can be. Further, it should be considered, who would you prefer come to help you or your loved one; people who have considerable experience, or people who may have attended the required departmental orientation ten years ago and who have never been underground since?

The cavers who, as previously mentioned, have taken it upon themselves to prepare for caving emergencies, do the caving community a valuable service, a service which costs the caving community as a whole very little. The IKC has been most generous in allowing cave rescue training in IKC managed caves and this directly attributes to the success that area cave rescues have enjoyed in recent years. Also, interestingly enough, the overall rate of rescue has dropped considerably in the last ten years in Indiana. In many cases what used to be considered major rescues requiring dozens of people have been much more efficiently performed by a very few well trained people much more quickly and with far less media exposure.

So why should the IKC be involved in cave rescue and what is the utility having a rescue coordinator? I hope the fact that the IKC

manages caves and my preceding paragraphs have answered the first question. As for the second question, one task that I took upon myself was to write a rescue plan for IKC managed caves. This is a relatively simple task as for the most part a standard template can be used which is adapted to specific requirements of that cave. The other utility is in being able to show those governmental bodies that we take all aspects of cave management seriously. Sadly enough your average county Sheriff could care less about cave damage by vandals or overuse, but they care greatly about what happens when someone gets injured in a cave, because that then becomes their responsibility and potentially a major headache.

Creating this position has also been useful in my role as liaison for cave rescue between the caving community and the various responsible agencies. As a civilian and member of the general public, I have no legal authority regarding cave rescue. By representing the IKC, NCRC, BIG, and the various other organizations out there who have specifically charged me with acting as that liaison, I am better able to make those sometimes reluctant agencies listen to our concerns. The amount of work involved with doing this is often invisible to the rest of the caving community, but it consumes a significant portion of my time, much the same as to which any IKC president past or present can attest. Caving as a whole is strengthened in the eyes of those agencies when we present a united front in all areas as they are all too used to dealing with internecine warfare among special interest groups. This also helps the IKC in the future when it is negotiating with agencies and landowners since due to the ever present fear of litigation, emergency management is often at the forefront of their concern.

Thank you for your time and your thoughtful consideration of these points I raise.

continued from page 12...

tended this event, held at Wombeyan Caves, New South Wales, Australia. More on the event in this issue Australasian Cave and Karst Management Association Conference 2001 (see page 10).

IDNR/Summer Interpreter Training - On May 10, Kriste Lindberg and Anmar Mirza presented cave and karst education and caving safety to a group of IDNR summer inter-

preters as part of their summer training. More on the event under Leonard Springs Nature Park Update (see page 14).

Other collaborations -- The IKC continues to work successfully with the IDNR concerning interpretive roundtables, other education efforts, etc, as well as various other agencies, businesses, and individuals. We'll keep you posted!

INDIANA KARST CONSERVANCY TREASURY REPORT

Income/Expense Statement From January 1, 2001 to March 31, 2001

INCOME:

Dues Apportionment and Residuals	672.50	
Donations	896.00	
Acquisition Fund	1737.00	
Interest	235.06	
		\$3,540.56

EXPENSES:

IKC Update (printing, production, mailing)	322.61	
Membership (postage, meeting notices, etc)	82.43	
Conservation/Management/Education	558.10	
Education (groundwater model & display)	51.45	
Business (bank fees, Sec of State fee, etc)	27.71	
Transfer to restricted funds	1737.00	
		(\$2,779.30)

NET OPERATING EXCESS (DEFICIT) THIS PERIOD: \$761.26

Balance Sheet March 31, 2001

ASSETS:

Cash in Checking Account	3707.59	
Cash in Savings Account	20551.45	
Sullivan Property	72000.00	
Orangeville Rise Property	7000.00	
Indian Creek Conservation Easement (valued at \$1/acre)	13.16	
		<u><u>\$103,272.20</u></u>

LIABILITIES & OPERATING EXCESS:

Hancock Property Maintenance Fund	100.22	
Indiana DNR Nongame Fund	120.00	
Land Acquisition Restricted Fund	3417.00	
Deferred Dues Restrctited Fund	2400.00	
Hat Fund (excluding 20 hats in inventory)	252.16	

Previous Operating Excess	17208.40	
Net Excess (Deficit) This Period	761.26	
Current Operating Excess	17969.66	
Real estate liquidity	79013.16	

Total Liabilities & Operating Excess \$103,272.20

IKC ANNUAL BUSINESS MEETING

Saturday, March 24, 2001

Greenwood, Indiana

BOARD MEMBERS PRESENT:

Bruce Bowman (by proxy Larry Reece)
 Kriste Lindberg
 Keith Dunlap
 James Adams
 Bruce DeVore
 Steve Lockwood
 Nick Noe (by proxy Bambi Dunlap)
 Tom Rea
 Bob Sergesketter
 Tom Sollman
 Bill Tozer
 Bob Vandeventer
 Richard Vernier
 Kathy Welling

BOARD MEMBERS ABSENT:

Dave Haun

The Annual Business Meeting of the Indiana Karst Conservancy was called to order at 10:15 AM at the White River Library in Greenwood, Indiana, President Kriste Lindberg presiding. Elections were the first order of business. Larry Reece served as Election Teller. Following the elections the new Officers and Board of Directors were seated:

- o Bruce Bowman was nominated and accepted by acclamation as President.
- o Kriste Lindberg was nominated and accepted by acclamation as Secretary.
- o Keith Dunlap was nominated and accepted by acclamation as Treasurer.
- o Directors receiving winning votes for two-year terms were Bruce DeVore, Dave Haun, Nick Noe, Tom Sollman, Richard Vernier, and Kathy Welling.

Outgoing President Lindberg passed out certificates of appreciation to all the Officers and Directors for their hard work. K Dunlap took over the meeting at this point as Bowman was called away by a family emergency and Lindberg was suffering from a cold and was losing her voice.

The minutes of the December 2, 2000 Winter Quarterly Meeting and the February 17, 2001 Directors Meeting were approved as published in the March 2001 *IKC Update*.

Treasurer K Dunlap reported \$23,057.09 in cash. Of this amount, \$2,217 was in the restricted land acquisition fund. \$79,013.16 is in land for a total in assets of \$102,070.25. Dues are due at the end of March. We currently have 186 members, 115 of which have already renewed their membership for the coming year.

Cave Patrons, Stewards, and Property Manager were asked to provide annual reports on their activities. These written reports were distributed to the Board as follows:

- o K Dunlap - Coon and Grotto Caves and the Sullivan Property
- o Tom Willett - Waynes Cave
- o James Adams - Shiloh Cave
- o Ronnie Burns - Suicide Cave
- o Bob Vandeventer - Sullivan Cave
- o Jeff Cody - Shaft Cave
- o Richard Newton - Sinks of Indian Creek Conservation Easement
- o Steve Lockwood - Orangeville Rise

K Dunlap is coordinating activities for Under Earth Day, scheduled for April 7. 1,800 trees will be planted, 2,300 trees will be mulched, work will be done on the driveway to correct erosion problems, and "Classified Forest" signs will be posted this year.

Lockwood has secured a cost estimate of between \$300 and \$400 to locate and install permanent markers at the property boundaries of the Orangeville Rise. Adams moved to reinstall the markers and fund the project up to \$400. Welling seconded. Motion passed, 14-0-0.

☺

DON'T FORGET TO RENEW YOUR DUES

K Dunlap will communicate to Newton to investigate the exact location of a fire ring and 4-wheel drive trail near or on the Sinks of Indiana Creek CE and to seek the opinion of Allan Pursell of The Nature Conservancy on possible easement violations at the property.

Cody suggested that a new fence be installed to help keep anyone wandering in the woods from falling into Shaft Cave. He has contacted Newton who suggests that enough black locust wood to build 120 linear feet of fence similar to the fence around Gory Hole can be delivered to the site for \$300. Welling moved to purchase the wood and fund the project up to \$300. Vandeventer seconded. No Vote. After much discussion, Bill Tozer moved to postpone the vote on the fence until the June meeting to allow the Board to inspect the property. Lockwood seconded. Motion passed. 12-2-0.

K Dunlap noted some opportunities for possible land acquisitions.

Lindberg reported that all is well with our education and outreach efforts. There are plenty of materials available to pass out at events such as the IMAX theater at the Children's Museum, which is currently showing *Journey Into Amazing Caves* and all is going well. Upcoming events and partnerships include more collaborations between the HNF, IKC, and IDNR State Parks, IDNR Wyandotte Woods training (April 19), Earth Day (April 29), Historic Hoosier Hills (May 1), ACKMA (April 30-May 4), IDNR Division of Water Conference (May 9-10), IDNR Naturalists training (May 17), Indiana Youth Environmental

Summit (May 12), EarthFest (May 19).

The book *Bats of the United States* was included in the most recent *IKC Update* mailing to members.

A new Indiana Karst Conservancy brochure has been produced by Lindberg and Vandeventer. Copies were distributed for comment.

Under Earth Day is set for April 7, the Indiana Cave Symposium is scheduled for April 21, and the Indiana Department of Natural Resources mine gating project is being planned for the weekends of May 12-13 and June 23-24.

We may want to revise our procedure for elections. Bowman, K. Dunlap, Tom Rea, and Tozer volunteered to form a committee to make bylaw recommendations to the Board.

DeVore extended thanks to outgoing President Lindberg for her continuing efforts for the Indiana Karst Conservancy, especially in the area of public education.

The next meeting was set for Saturday, June 9 at the IU Geology Building in Bloomington beginning at 6:00 PM. The annual Hancock Property cleanup will begin at 1:00 PM prior to the meeting. All Board members should inspect the Shaft Cave entrance before the June meeting.

Meeting adjourned to Little Mexico restaurant for lunch at 12:31 PM.

Submitted by James Adams, Acting Secretary

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

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

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

\$ _____ donation to the general IKC fund.

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

_____ I know of an area worthy of protection. Please contact me.

_____ I would like to volunteer to help. Please contact me.

NAME _____

ADDRESS _____

CITY/STATE/ZIP _____

PHONE # _____

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

