### Native Plant and Wildflower Society

Volume V Number 1

Spring 1998

### **Buckthorns** in Indiana

the Good, the Bad, and the Ugly

he buckthorn family contains some of our finest native shrubs, as well as some of our worst invasive exotics. In Indiana, this family is represented by two genera, Rhamnus and Ceanothus. Rhamnus contains three species native to the state

and two of our worst invasive shrubs. Ceanothus is represented by two native species, one of which is now extirpated in Indiana.

Unfortunately, the most common buckthorn species in the state are exotics. Glossy Buckthorn (Rhamnus frangula) is a horrible weed of fens, bogs and other wetlands. It is a thornless shrub with glossy elliptic leaves and graybrown twigs with elongate lenticels. It can Glossy Buckthorn be distinguished from (Rhamnus frangula) all other buckthorn species in Indiana by its entire, or untoothed leaf margins. The yellowish-green five-parted flowers develop into glossy black berries, which are consumed and disseminated by birds. This shrub may reach the size of a small tree, occasionally growing 20

feet high with up to a four-inch trunk

diameter.

At Springfield Fen in Laporte County, acres of wetlands have been usurped by this species. According to Tom Post, Regional Ecologist with the Division of Nature Preserves, approximately 35 to 40 percent of this preserve is infested with Glossy Buckthorn,

including nearly all of the available sedge meadow habitat. This condition

> remains in spite of the fact that thousands of volunteer hours have been spent removing buckthorn over the past 10 years.

Central Indiana wetlands are also prone to invasion by Glossy Buckthorn. I have witnessed specimens of this species over 15 feet in

height with a three-inch trunk diameter in a degraded fen along White River east of

Anderson. Although this fen is currently choked with Buckthorn, Multiflora Rose, and native Ninebark (Physocarpus opulifolius), the presence

of prairie species such as Big Bluestem, Indian Grass, and Dense Blazing Star along a roadside that cuts through it tesby Kevin Tungesvick

tify to its formerly open nature. A few weak specimens of the state-endangered Great St. John's-wort (Hypericum pyramidatum) also continue to survive in the ever increasing shade of several large buckthorns, once again demonstrating the deleterious effects of exotic species on native biodiversity.

In Marion County I have seen Glossy Buckthorn thriving in groundwater seeps along Fishback Creek northwest of Eagle Creek Reservoir. Unfortunately, Glossy Buckthorn remains widely available in the nursery trade. The upright variety columnaris

Buckthorns . . . continued on page 2

### Inside . . .

President's Message 3
Spring Plant Auction 3
Committee Reports 5
Multiflorae 6
Coming Attractions 7
The Root of the Matter. 8
Book Review 8
Letters 9
Membership
Application 9
INPAWS Events 10

and its named cultivar 'Tallhedge' are promoted by the industry as screening plants for their glossy dark green

foliage and narrow upright habit. The dissimilar-appearing Cutleaf Buckthorn (Rhamnus frangula 'Asplenifolia') has almost linear foliage and abundant fruit. During the 1996 INPAWS Indiana Dunes trip, I pointed out a hedge of Glossy Buckthorn planted along the parking lot of a fast- food establishment. In the mulched bed surrounding the hedge, hundreds of

seedlings testified

to the fecundity of

the species. I urge

anyone who is concerned about the plight of our native flora to avoid purchasing this shrub and to educate others about its invasive nature.

Common Buckthorn (Rhamnus cathartica) is an equally invasive exotic shrub

> of woodland habitats. It differs from Glossy Buckthorn by having dull green leaves that are more ovate with-

fine teeth along the margins. Its grayblack branches may also contain small thorns. Unlike Glossy

Buckthorn, it is dioecious, meaning the male and female flowers occur

> on separate plants. Like Multiflora Rose, Autumn Olive, and Amur Honeysuckle, Common Buckthorn was frequently planted to provide food and shelter for wildlife.

To truly realize the invasive nature of Common Buckthorn, one should travel to the Chicago Region. There, many of the remnant woodlots and oak savannas have an understory composed entirely of large round specimens of this shrub. Like many exotics the leaves of Common Buckthorn remain green well after the native woody species are bare, making them particularly easy to identify in late fall. Many thousands of volunteer hours have been spent removing this species from the Forest Preserve Districts of the Chicago Region.

Unfortunately Common Buckthorn is likely to increase in Indiana in future decades. It has been seen in several areas of Eagle Creek Park, including young second-growth forest just south of the Nature Center. It is an abundant shrub at Christy Woods on the campus of Ball State University in Muncie. In the not too distant future, Common Buckthorn will likely battle Amur Honeysuckle for possession of the understory of our degraded urban woodlots.

Buckthorns . . . continued on page 4

Indiana Native Plant and Wildflower Society Newsletter ©Copyright 1998

Published quarterly by the Indiana Native Plant and Wildflower Society for members.

The Mission of the Indiana Native Plant and Wildflower Society is to promote the appreciation, preservation, conservation, utilization and scientific study of the flora native to Indiana and to educate the public about the values, beauty, diversity and environmental importance of indigenous vegetation.

### Officers 1998-1999

President Ruth Ann Ingraham (317) 253-3863 Vice President (765) 354-2775 Kevin Tungesvick Corresponding Secretary (317) 232-4052 Roger Hedge Recording Secretary Carolyn Bryson (317) 873-4205 Treasurer Jean Vietor (317) 823-1542

### Submission of articles

Information for the newsletter is supplied by Society members and others interested in sharing information about Indiana native plants. Articles or drawings should be sent to the Editor, Dan Anderson, 7412 Graham Road, Indianapolis, IN 46250, or e-mail wilson@hsonline.net.

### Newsletter Committee

Editor Dan Anderson (317) 849-3105 Co-Editor/Design/Layout (812) 342-6838 Anne Wilson Technical Editor Gil Daniels (317) 251-7343 Mailing Ruth Ann Ingraham (317) 253-3863 Contributing Editor Becky Dolan (317) 940-9413 Committees

Common Buckthorn

(Rhamnus cathartica)

Advisor	CONTRACT STREET STREETS
Lee Casebere	(317) 843-8379
Annual Meeting	
Margo Jaqua	(317) 253-4367
Auction	HENRY TO SERVE SHOWER
Dianna Zamani	(317) 233-8084
Conservation	
Ted Harris	(765) 362-1509
<b>Demonstration Gard</b>	lens
Hilary Cox	(317) 272-4938
Grants and Awards	
Becky Dolan	(317) 940-9413
Historian	
Reta Rutledge	(317) 784-2927
Hospitality	
Helen Merrill	(317) 253-3433

Membership	
Michael Stiffler	(317) 422-8914
Native Plant Education	on
Kevin Harmon	(317) 634-9861
Katie Booth	(317) 216-9572
Native Plant Rescue	
Sue Dillon	(317) 844-3558
Newsletter	
Dan Anderson	(317) 849-3105
Programs/Field Trips	Service Control of the Control of th
Kevin Tungesvick	(317) 354-2775
Publications	SECRET OF THE PERSON
Anne Wilson	(812) 342-6838
Publicity	2002 200 2000
Bonnie Carter	(317) 769-5034
Speakers Bureau	
Colletta Kosiba	(317) 852-5973
Special Projects	
Rob Day	(317) 253-9000
Volunteers Coordina	
Katrina Vollmer	(812) 988-0063
Muncie Chapter	
Kevin Tungesvick	(317) 354-2775
Past Presidents	
Jeffrey Maddox	(317) 253-0659
Carolyn Harstad	(317) 257-9452

### President's Message

ong before the term "native plants" became a part of my awareness I unwittingly learned about the essence of native plants.

In 1969 I purchased a new-model Toyota station wagon which, to my surprise, turned out to be lemon-not a car. In 1972 I sold that Toyota to a man who was convinced that anything made in Japan was great-in spite of my documentation to the contrary. Fortunately my mother was ready to retire her big old yellow Buick and she passed it to me for an extremely modest price. With the profit from those two transactions I chose to landscape the yard around my Broad Ripple home here in Indianapolis.

Happily, at the southeast corner of the house a small, sunny garden space was created where a concrete walk had been. Aging yews provided the traditional backdrop.

I decided to apply my latent creativity to the design of this mini-garden and drew a plan. (That hand-drawn, multi-colored design is still tucked inside the front cover of the 1972 edition of Time-Life's *Perennials*.) I sent my plant order off to Wayside Gardens and while I waited for my order to arrive I envisioned the splendor that would soon appear outside my dining room window spring through fall.

The plants arrived and I lovingly put them into place.

Gradually, over the span of a few years, all of those plants died. But to my surprise and delight, something unplanned appeared. Black-eyed Susans. They self-sowed and spread, and summer after summer they formed a glowing mass of color through Indiana's torrid summer months with scant attention, one might say negligence, on my part. And in the winter the seed heads provided a natural food source for goldfinches.

Eight years ago Joe and I purchased a little cabin with some land in Brown

### by Ruth Ann Ingraham

County. The land, which slopes from the gravel access road down to the cabin, had been mowed. We decided to see what would happen if we stopped mowing that area. Could we have something worthy of the name meadow, we wondered. That was a relatively novel concept to us then. An annual early-spring mowing was all that was required to reap unanticipated rewards. Now there is a warm-season panoply of native grasses and flowers, including Little Bluestem, Purple Top, Goldenrod, Asters, Rosepink, Yarrow, Butterflyweed and, last fall, the native orchid Ladies Tresses and an accompanying array of insects. In the winter, juncos, finches and sparrows feed on the seed heads.

Many of us in INPAWS are novices and stumble along until we accidentally find ourselves surrounded by nature's glorious floral gifts. It pays to welcome native plants that choose to grace our environments.

### INPAWS Spring Native Plant Auction

will take place

### Saturday, May 16

at the Community Center on the campus of Augusta Christian Church 3445 W 71st Street, Indianapolis.

10 AM . . donations will be received:

noon . . . the \$2, \$4 and \$6 sale tables will open;

1 PM ... the auction will begin.

Light snacks and beverages will be available.

### Message from Rolland Kontak, Auctioneer

It's not too early to start thinking about your auction donations.

In just a few years we have realized thousands of dollars from your donated native plants, garden hardware, books and art items, and other related material. (Bird houses, ornamental faucets, etc.)

Here are a few hints to insure your donation brings the highest return it deserves:

On your plants, make sure they are well grown, potted early enough to acclimate and not wilt (at least two weeks before the sale).

Present them in an appealing container, clean and fresh, appropriately sized for the content. Label them accurately. Botanical names are desirable. Donor name is optional.

If you need containers I have many hundreds of flats and pots, from two-inch clay pots to three-foot tubs for trees. They are yours to pick up provided they return filled for the auction. Call me (317-356-0953).

Hardware, art objects, wearables and books should be desirable, not cast-offs.

Please deliver your donations AT LEAST one hour, preferably two, before sale time. You can only imagine the frenzy of that last hour before sale time when the pricers and sorters are making those last minute preparations.

All donations are tax deductible if you choose. We have a system to track your donations and furnish appropriate documents for tax purposes.

Join the fun. I'll see you on May 16.

For more information call Dianna Zamani (317) 233-8084.

Interestingly, Charles Deam, while noting several records for Common Buckthorn, excluded it from his *Flora of Indiana*. However,

he remarked that when planted in his arboretum, hundreds of seedlings were produced, prompting him to destroy the seedlings and parent plants.

In Plants of the Chicago Region, Floyd Swink and Gerould Wilhelm report several other alien Rhamnus species that have escaped around the Morton Arboretum, including Dahurian Buckthorn (Rhamnus davurica), Japanese Buckthorn (Rhamnus japoni-

ca), and Chinese Buckthorn (Rhamnus utilis). Therefore, any non-native buckthorn should be considered potentially highly invasive. Fortunately these species are not currently widespread in the nursery industry.

In contrast to the alien species, native members of the Rhamnus genus are fine conservative species of our woodlands and wetlands. Lanceleaf Buckthorn (Rhamnus lanceolata) is an uncommon plant of fens and rocky slopes. In Indiana it occurs locally from the Wabash Valley in the north central portion of the state south to the Ohio River. I have found it as an occasional plant in an area of remnant fens in Henry County in the east central part of the state. There, it appears to prefer shrubby wetland borders. This species also occasionally occurs in old field habitats in southeastern Indiana. It is a rounded shrub with four-parted flowers and dark green lanceolate to elliptic foliage with fine teeth along the margins. Its attractive foliage and adaptability to upland sites might make it a useful ornamental shrub if it were available in the nursery trade.

lia) is a low shrub, usually less
than a meter tall,
that occurs in bogs
and fens. In Indiana,
it is largely restricted

to the northern two

Alder Buckthorn (Rhamnus alnifo-

tiers of counties.
It differs from
Lanceleaf
Buckthorn by
having five-parted
flowers.

At the other end of the state, Carolina Buckthorn (Rhamnus caroliniana) is restricted to a few counties bordering the Ohio River in south central Indiana, occurring on rocky wooded slopes. It is a common plant in dry oak woods surrounding limestone

glades in southern Harrison County. Like Alder Buckthorn, Carolina Buckthorn has fiveparted flowers.

Lanceleaf Buckthorn

(Rhamnus lanceolata)

The other genus in the buckthorn family in Indiana, Ceanothus, contains one of our most attractive and interesting native shrubs. New Jersey Tea (Ceanothus americanus) often remains under two feet in height, producing attractive white flowers in July over dark green, ovate foliage. It occurs in prairies, savannas, and open oak woods.

The seeds of this species require a heat treatment before they will germinate,-

making it one of the most fire-dependent members of our flora. The leaves have been used to make a tea substitute, hence the common name. New Jersey Tea is found throughout the state, but is most common in the prairies and savannas of northwestern Indiana.

According to Deam, Redroot or Inland New Jersey Tea (Ceanothus herbaceus) formerly occurred on low dunes in Lake County between Pine and Miller. It is believed to be extirpated, as much of its habitat has been destroyed by industrial development. It differed from New Jersey Tea by having narrower lanceolate leaves. Both Ceanothus species bloom on new wood, another adaptation to a fire-maintained habitat.

Since exotic buckthorn species will continue to increase in Indiana, concerned individuals should learn to identify the various members of this family, so that we may conserve the native species and remove the invasive ones. Effective removal can usually be accomplished by cutting the shrub as close to the ground as possible

followed by the

application of a solution of 50% Glyphosate herbicide (Roundup) to the cut stump. Such actions will help ensure that future generations will not be deprived of the opportunity to enjoy our diverse botanical heritage.

Kevin Tungesvick is
INPAWS Vice
President, Program
Chairman, and loves
to clean seeds,
which he does,
among other
things, at Spence
Nursery in Muncie.



New Jersey Tea (Ceanothus americanus)

### Committee Reports

### CONSERVATION COMMITTEE

### INPAWS Joins the Native Plant Conservation Initiative

In November 1997, INPAWS became a cooperator with the Native Plant Conservation Initiative (NPCI). The NPCI is a consortium of ten federal agencies and one hundred state and local cooperators who are collectively engaged in solving the problems of native plant extinctions and native habitat restoration. Among the federal agencies are the National Park Service, Bureau of Land Management, U.S. Geological Survey, and the Fish and Wildlife Service. The list of cooperators reads like a Who's Who of groups that share INPAWS' interests, for example, Natural Areas Association, and Native Plant Societies from Maryland, Missouri and Montana.

The NPCI is involved in exchanging information, ideas and expertise. Each year it awards thousands of dollars for on-the-ground conservation and restoration projects. Since its inception in 1994, grants have been awarded for 71 projects, totalling \$1,500,000 in federal funds and matching non-federal contributions.

For more information, visit the NCPI's home page at http://www.aqd.nps.gov/npci/

Ted Harris, Conservation Committee Chairman

### A NEW INPAWS PERK!!!

INPAWS members now have an opportunity to visit native plant gardens of fellow members listed below. Please call to arrange a time for your visit, or, if a date is specified, please call your host or hostess to let him or her know you are coming.

Bartholomew, April 4, 2-7 PM Art Hopkins • 812-372-2862

### Brown

Colin Reeves • 812-988-9438

### Hendricks

Colletta Kosiba • 317-852-5973

### Marion

Carolyn Harstad • 317-257-9452 Virginia Finch • 317-291-0523

We would like to continue these open houses. Many INPAWS members have indicated an interest in touring prairies and meadows established by other members. We would like to see what you have growing and learn of the failures (if any) and successes you have had. I need you to volunteer your site, so we can offer the tours in the June newsletter. Please share your experiences. You may either choose a date for an "open house" or arrange visits on an individual basis. Please let me know if you are interested. Call or write. No location is too small.

Colletta Kosiba, Chairperson, Speakers Bureau • 317-852-5973.

### SPEAKERS BUREAU

The following INPAWS members will give programs on native plants at events open to the public. Come see their presentations!

### **Folklore of Native Plants**

Sue Nord, Indianapolis Museum of Art, March 5, 7 PM

### **Return to Natives**

Colletta Kosiba, Flower&Patio, March 17, 4 PM

### Creating Backyard Wildlife Habitat

Greg Oskay, Danville Fairgrounds, March 27, 6 PM

### **Medicinal Herbs**

Diane Stippler, same location, March 28, 1 PM

### Wildflower Slide Show

Colletta Kosiba, Plainfield Library, March 19

### Wildflowers and Edibles

Dan Anderson, Ft. Harrison Nature Center, April 15, 10 AM - 4 PM

### **Nature Books Review**

by Tom Potter, photographer and INPAWS member,

Borders Bookstore at Keystone at the Crossing, Indianapolis, at 7 PM on Thursday, April 16

### Wildflower Workshop

May 7 - see under "Coming Attractions"

Call Colletta • 317-852-5973 • for more information.

### http://www.inpaws.org

Visit our website for news and information about INPAWS and native plant issues, as well as links to a wealth of like-minded organizations.

We would like to update our site with your news, information, comments, ideas, opinions, suggestions, in short, anything of interest to those concerned with preserving native plants and their habitats.

Please email Anne Wilson • wilson@hsonline.net.

### MULTIFLORAE

### PLANT COLLECTION IN NATIONAL FORESTS

The USDA issued a new policy regarding collection of plants in the Wayne and Hoosier National Forests in 1993, due to the over-harvesting of species such as Yellowroot and Ginseng. Since its issuance, it has become apparent that many people are not aware of the requirements, so we have been asked to publicize them.

- 1 Plants on the threatened, endangered, sensitive, rare and unique list may not be collected.
- 2 There are certain areas within each forest where collection is prohibited. These include various research and experimental areas.
- 3 Plant collectors, whether commercial or individual, must buy a \$10 permit from each district in which they intend to collect. The permit application must state the species to be collected and the area in which the collector intends to operate. Maps of prohibited areas will be available at the district offices.

For more information, please contact Ellen Jacquart, Brownstown Ranger District, 608 W. Commerce St., Brownstown IN 47220 (812-358-2675) or Karen Hughes, Wayne National Forest, 219 Columbus Rd., Athens, OH 45701 (614-592-6644).

### last chance for seed

May 1 is the last day to order locally grown native plant seeds at a bargain price! See insert in this newsletter for a catalogue of seeds collected and processed by INPAWS members. Send to Rolland Kontak, 2403 S. Emerson Ave, Indianapolis, IN 46203, or email wilson@hsonline.net. All proceeds will benefit INPAWS.

### YOUR HELP NEEDED IN RESTORATION AND MAINTE-NANCE OF NATURAL AREAS...

Vital to Indiana are its volunteer land stewards who protect native plant communities in our prairies and savannas, wetlands and forests. Listed are some opportunities to get involved in protecting Indiana's natural heritage. If you are interested in helping, please call the numbers below for more detailed information and more dates and times for April, May and June.

Central Indiana Land Trust (CILTI) 765-362-1509

Henry County Cemeteries March 15, 12:00 noon, Prairie habitats

### Gene Glick NP

March 29, 1:00 PM, Woodland habitat, Indianapolis

### **Burnett Woods**

April 5, 2:00 PM, Forest habitat, Near Avon

### John Suman's Woods

April 11, 8:00 AM, carpool from Indianapolis

**The Nature Conservancy (TNC)** 317-923-7547, TNC & Indiana Div. Of Nature Preserve Properties

### **Gravel Hill Prairies**

Tippecanoe Co., March 1, 12:00 noon

### Conrad Station Savanna

Jasper Co., March 15, 12:00 noon

### **Gravel Hill Prairies**

Tippecanoe Co., March 20, 12:00 noon

### **Lowe Prairie**

White Co., March 28, 12:00 noon

Sycamore Land Trust (SLT) 812-336-5382

### Bean Blossom Bottoms

March 28, 10:00 AM, Woodland habitat

### Sierra Club, Heartlands Group 317-259-4417

Marott Park Nature Preserve, Indianapolis, April 18, 9:00 AM

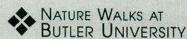
### **Indy Parks**

317-327-7180

### Holliday Park, Indianapolis

April 18, 9:00 AM

Don Miller • 317-927-3047



Dr. Rebecca Dolan, Director of the Friesner Herbarium at Butler University, will be leading tours on the Butler campus on the following Tuesdays at noon:

### March 10

Early Spring Wildflowers

### April 14

Spring Wildflowers

### May 12

Late Spring Wildflowers

### June 9

Wildflowers Along the Canal

Meet behind Gallahue Hall near the greenhouse. Tours will last about 40 minutes. There is no charge and all are welcome. Please come prepared for mud!

If you would like to receive a monthly reminder of the walk, or wish to be dropped from the reminder list, please call Dr. Dolan at 317-940-9413, or email rdolan@butler.edu.

### Munchkin Nursery

operated by INPAWS member Gene Bush, is offering a wide selection of native plants in his 1998 catalog. If you would like one, send \$3 to: 323 Woodside Dr. NW Depauw, IN 47115-9039

### **Outdoor Indiana**

now features articles on native plants among its informative articles and excellent photography. Cost is \$10 yearly. Write:

Outdoor Indiana 402 W. Washington W160, Indianapolis, IN 46204-2742.



# note: last day to order is May 1

# 1997/1998

Native

### Sale Seed Plant

### CONDITIONS

- No germination tests have been made
- The quantity of seeds per pack has size, or rarity/desirability of the species. been determined by availability, seed
- Seed volume is adequate for home culnot large enough for large restoration projects. ture or experimentation. Quantities are
- Fluff and chaff are to be expected in some species.
- No shipments will be made outside the USA.
- Allow up to two weeks for receipt of order, although one week should be
- Your order form will be returned with your seeds.
- No cash refunds will be given. Alternates will be used for refund

STATE CITY ADDRESS

Please report results, disappointments and satisfactions.

### HOW TO ORDER

- All seeds are \$1.00 per pack.
- the size of the order. shipping regardless of Add only \$1.00 for
- of the items you want. Circle the item number
- write their item numbers in the blank space provided. Choose at least three alternates (per order) and
- To order multiple packs of the same species indicate quantity in space below item number.
- Make all checks payable to "INPAWS."
- Address orders to:

2403 S. Emerson Avenue Rolland Kontak Indianapolis, IN 46203

TOTAL ENCLOSED	PLUS \$1.00 SHIPPING	TOTAL PACKS
		@ \$1 = 5
\$	5	#

7	
_	
7,000	

1)	Ē	3	
⋜	ı	1.	
▶	į		
=	ä	H	
	Ē	Ĭ	
	Ġ	5	
	þ		
	ī	П	
	- INCO	Ę	

# PROPAGATION HINTS

In general, best results can be expected when seeds are sown as soon intrusions, washouts, as received, and subguard against rodent jected to outdoor However we must natural influences

etc., etc., etc.

darkness exposure, covering or surcontrol, temperature variation, light or potting soils, time of planting, moisture al parts and subject each part to a difsuccessful methods. face sowing, chemicals, presoaking ferent influence. These can be varied (especially legumes). Please report divide a seed supply into sever-A reasonable regimen is to

139 Lenor Drive, State College, PA Address inquiries to: vately by NCD. by Norman C. Deno, published prifrom a host of authors. A short list: Much specific information is available Seed Germination Theory and Practice

by Henry W. Art by Harry R. Phillips Garden Way Publishing Co The University of North Carolina Press ISBN 0-8078-4131-5 (pbk ) Growing and Propagating Wild Flowers ISBN 0-88266-668-1 (pbk) The Wildflower Gardener's Guide

Don Bickel, Gene Bush (Munchkin Dianna Zamani, and anonymous. Nursery), Becky Dolan, Ruth Ann Thanks to the following seed donors: Kontak, Jean Roberts, Anne Wilson, Ingraham, Virgil R. Knapp, Rolland

atibida pinnata Gray-Headed Coneflower
Pycnanthemum virginianum Common Mountain Mint
Prairie Cinquefoil
Polygonatum spp. Solomon's Seal (Various)
Polemonium reptans Jacob's Ladder
Physostegia virginiana Obedient plant
Petalostemum purpureum Purple Prairie Clover
Penstemon digitalis Foxglove Beardtongue
Panicum virgatum Switch Grass
Monarda fistulosa Wild Bergamot
Bergamot, Bee Balm
Mitrewort
Mitella diphylla
Ludwigia alternifolia
Creat Blue Lobelia
Cardinal Flower
Lindera benzoin Spicebush
Liatris squarrulosa Blazing Star
Liatris spicata  Dense Blazing Star
Bush Clover
Tall Blue Lettuce
Iliamna remota Kankakee Mallow
Hystrix patula  Bottlebrush Grass
ypoxis hirsuta Yellow Star Grass

### COMING ATTRACTIONS:

### Wildflower Workshop

Thursday, May 7th, at McCormick's Creek State Park, Spencer, Indiana, sponsored by The Garden Club of Indiana. The workshop is intended to encourage use of native plants along our highways, and to encourage their propagation, conservation and use in our gardens, communities and wild areas.

The workshop will begin at 8:30 AM, and will feature presentations by four INPAWS members: Dan Anderson on wild edibles, Bill McKnight on exotic invasives, Dr. Vic Riemenschneider on plant identification, and Sue Nord on plant folklore. After lunch at the park Inn, a field trip will be led by park naturalists.

Registration, which includes lunch, is \$25.00, and must be made by April 18th. Please send your checks to Mrs. Wayne Huff, 3630 W. County Road 250N, Sullivan, IN 47882. If you wish to stay overnight at the park, please call the Canyon Inn at 812-829-4881 for reservations.

(Katrina Vollmer, President of The Garden Club of Indiana, is an active member of INPAWS).

### **Ritchey Woods** Spring Flower Flings

are scheduled for April 18th and May 2nd, both Saturdays, at 11:00 AM. This will be an opportunity to visit the nature preserve of the Children's Museum at its location on Hague Road, between 96th and 106th Streets, in southern Hamilton County. The cost is \$5 for museum members and \$6 for non-members.

Please register at least a week in advance by calling 924-5431, extension 3826.

### Spring Wildflower Pilgrimage

in Great Smoky Mountains National Park will be April 24-26. This will be an extensive series of walks and photographic opportunities led by experienced naturalists, with numerous choices each morning, afternoon and evening. (Tom Potter will be presenting workshops on nature photography). Cost of the program is \$8 per day, not including meals and lodging, for which arrangements must be made by participants. For more information and a program, please call 1-800-525-6834. A package tour from April 21-26 is being offered by Eagle Creek Park. The \$425 fee includes lodging for five nights, transportation and registration. A \$50 deposit is required. Please call the park office at 317-327-7148 for further details.

### Division of Nature Preserves Field Trips

### April 25

Portland Arch, 10 AM-12 PM, registration not required

### June 13

Clark and Pine, Lake County, registration required

### August 15

Bloomfield Barrens, Spencer County, registration not required

For directions or registration, call 317-232-4052.

### **Amos Butler Audubon Society**

will hold its annual dinner at the Garrison, 6002 Post Road (Ft. Ben) on March 13th. Social hour begins at 6 PM followed by dinner at 7 PM. The featured speaker will be Peter Stangel presenting a talk on bird migration. Mr. Stangel is the director of the Neotropical Migratory Bird Conservation Initiative of the Fish and Wildlife Foundation. Should you receive the newsletter in time, cost is \$12.50, and reservations may be made by calling 317-254-0639.

### Central Indiana Butterfly Club

Interested in butterfly gardening? Join members at 7 PM, April 14th, to hear INPAWS Vice President Kevin Tungesvick talk about butterfly gardening with native plants.

Location: Nora Library on E. 86th Street in Indy. Another presentation on a similar topic will be at Altum Gardens, Indianapolis, on April 25th at 1 PM. If you would like to know more about the CIBC, check their website at www.indynet.com/~burfish3/ naba.cibc/index.htm

### Wildflower Foray

will be held at T.C. Steele Nature Preserve on April 24-26th. The programs will include lectures, flower hikes, displays and good fellowship.



"At least two of the species of native orchids which grow on my property in Brown County, the cranefly orchid and the twayblade, did not flower this year where many had bloomed in previous years. Can I anticipate blooms in future years or have the plants probably died?" Thanks, Ruth Ann Ingraham.

Send your answer (and other questions) to Editor Dan Anderson, 7412 Graham Road, Indianapolis, IN 46250.

**Email Dan at** danand@netdirect.net or email Anne Wilson at wilson@hsonline.net.

### The Root of the Matter - Part II

guess an edible wild plant enthusiast thinks more about roots after most of the greenery is withered and brown. For the last few years, I have had a few Evening Primroses (Oenothera biennis) in my wildflower garden, as I enjoy their spikes of yellow flowers. These plants, of course, are prolific in their reproductive capacity, and our vegetable garden, after the beans had gone, was literally covered with rosettes of the first-year plants. Since we had not intended to replant anything in the fall, I left them alone. After reading that the roots were edible, we pulled a quantity of them.

The size and shape resembled those of carrots. After cleaning and peeling, Sophia diced them, and they were boiled for 30 minutes with three

changes of water. Served with a white sauce, they were much like potatoes but with a slight peppery taste.

We had less success with Calamus or Sweet Flag (Acorus calamus). This plant, which is an arum, has leaves superficially resembling those of iris and a long horizontal rootstock which runs below the surface of the mud, putting shoots up every few inches. We processed the root similarly to that of primrose, but found the taste after cooking to be

somewhat medicinal and less than pleasing. It is said that the roots can be candied, but I'll stick with M and

M's. Blue flag, a common wild iris, superficially resembles calamus (except when in bloom), but is toxic, so care should be taken to ensure that identification is correct!

Dan Anderson is newsletter editor and a confirmed wild-foods aficionado. Send your comments, recipes, results to danand@netdirect.net, or 7412 Graham Road, Indianapolis, IN 46250.

### Book Review

by Ted Harris, Conservation Chairman

The Natural Heritage of Indiana

Edited by Marion T. Jackson, Indiana University Press, 1997, (ISBN 0-253-33074-2)

ith its beautiful jacket and trim 12-inch length, *The Natural Heritage of Indiana* makes a striking first impression. Hundreds of handsome photographs, maps and diagrams will dazzle a prospective reader who riffles through the 470-plus pages. Still, this book's real power lies in the words of its authors.

Three dozen author-scientists have collaborated to produce fifty-seven chapters from scientific and historical perspectives. These writings fit together seamlessly, as though they were written by one person. The style is very readable, and can be enjoyed by people lacking a scientific background.

Various chapters cover Indiana's Ice Age history, its Pleistocene megafauna, wetlands, caves, prairies, forests, soils, rivers, mammals, birds, reptiles, fish, insects, trees, wildflowers, and much more. A compelling conservation message is expressed in many ways. The concluding chapters offer a prescription for what we need to do to protect, restore and connect Indiana's remaining natural areas.

The Natural History of Indiana is a great reference tool. More importantly,

it is a repository for its authors' knowledge and for their love of the natural world. It is a literary work of art. If you treat yourself to the purchase of only one book in 1998, this should be the one.

(This book was on sale at the INPAWS annual meeting and attracted a great deal of interest, including mine.

Although, after much soul-searching, I opted for Plants of the Chicago Region, I heartily concur with Ted's opinion, and recommend the book. – Dan Anderson)

### Letters

Dear Ruth Ann,

I'm writing in response to your "Message..." on page 11 of the last INPAWS newsletter. Glory and I would like to volunteer our home, which we are landscaping with native plants, for INPAWS members to visit on an informal basis—"informal by prior arrangement." that is.

We have three acres in Bartholomew County, most of it shaded, with some fine, mature trees. We have both flat and sloped land, some quite steep, mostly clay soil but some that's rather sandy and some that's pure gravel. Almost all of it was mowed for 15 years before we bought it, and probably grazed before that.

Crossing our land is a seasonal watercourse that is heavily flooded in spring, but dry in summer, and heavily shaded. I'd appreciate suggestions from INPAWS members for a shady, dry, periodically flooded and somewhat erosive area. (I could sure use some *sunny* moist land.)

I've added eight species of native woody plants in and near the water-course, and have kept most of them. At the herbaceous layer, I've been less successful, but also maybe less necessary, as a lot of interesting stuff has reappeared on its own. Celandine Poppy, Virginia Bluebells, Bloodroot, Tradescantia, and tall Jewelweed are hanging on, among my recent re-introductions, but some others have melted away.

There's stiff competition from Eupatorium rugosum, or White Snakeroot (the plant that killed Abraham Lincoln's mother). The snakeroot grows four feet tall by September; it spreads both by rhizomes and seed; and it's trying to take over the whole three acres. It makes Microsoft look like a fragile startup. I was amazed to see it

on Rolland Kontak's seed list- I'll give you some for free!

Glory and I have enjoyed our first six years of land reclamation here. Where one used to look out the windows at a vast, sterile lawn, we can now see graceful sweeps of *Eupatorium rugosum*. . . But by walking out and looking closely, we also see Trout Lilies, Blue-Eyed Grass, Solomon's Seal, Sweet Cicely, towering Wild Lettuce, and many more woodland wildflowers that survived the Lawnmower Era here. INPAWS members are welcome to come help us identify and enjoy them all.

Oh, yes, Abraham Lincoln's mother: she drank milk from a cow that had grazed on *Eupatorium rugosum*, and was poisoned. Quite a few settlers died that way.

Art Hopkins, Columbus



	Tiuni una	mujiower society		
	1	LICATION/RENEWA		following fiscal year
Annual dues perfain to	the fiscal year January 1 - December 31. [	oues paia affer september	Tare applied to the	rollowing listed year.
☐ Student \$10	☐ Individual \$18 ☐ Family \$25	☐ Patron \$100	☐ Sponsor \$250	☐ Corporate \$5.00
	Supporter (Additional Donation) \$		Total Enclosed \$_	
NAME		TELEPHONE		
ADDRESS				
CITY		STATE	ZIP	
COUNTY		□ NEW	□ RENEW	/AL 3/98
	ear about INPAWS?			
Sponsor and Corpor tion. All donations dues are most app	Aws donors at the Supporter, Patron, rate levels will receive special recogniabove Student, Individual and Family preciated and can aid our mission. eductible to the extent provided by law.	I would like inform  Annual Meeting  Auction  Conservation	☐ Hospitality ☐ Membership ☐ Native Plant	□ Programs/ Field Trips □ Publications
your check made	nt and Wildflower Society, or INPAWS ffler	<ul><li>□ Demo Gardens</li><li>□ Fund Raising</li><li>□ Grants &amp; Award</li><li>□ Historian</li><li>□ Other</li></ul>	Education  Native Plant Rescue  Newsletter	□ Publicity □ Speakers Bureau □ Special Projects □ Volunteers Coordinator

### 1998 INPAWS Events

### Saturday, March 21

Book signing with Marion
Jackson, editor of *The Natural*Heritage of Indiana, who will talk
about the construction of this
wonderful book that was published last year.

Cooper Science Building on the campus of Ball State University in Muncie – 2 PM.

### Saturday, May 2

Spring wildflower hike at Carnes Mill Nature Preserve in Crawford county led by Roger Hedge, INPAWS corresponding secretary and Heritage Biologist with the Division of Nature Preserves. The preserve contains rich mesic forests, cliffs, hemlock trees and mountain laurel.

- · details on all events to follow ·
- Kevin Tungesvick 765-354-2775

### Saturday, May 16

INPAWS plant auction and sale, Community Center, Augusta Christian Church, 3445 W 71st Street, Indianapolis.

- 10 AM donations accepted;
- 12 PM sale tables open;
- 1 PM auction begins.

### Saturday, June 27 and Sunday, June 28

Two-day bus trip to southwest and south central Indiana. On Saturday we will visit Section Six Flatwoods Nature Preserve and Twin Swamps Nature Preserve in soutwest Indiana to see post oak flatwoods and cypress swamps respectively. We will overnight in Evansville and then visit Hemlock Cliffs and Boone Creek Barrens to see a variety of beautiful habitats on Sunday.

### Saturday, August 1

Program on re-establishing native plant communities on your property. We will discuss converting portions of your property back to native vegetation. We will cover soil type, planting methods and maintenance. Location to be announced.

**September?** (to be announced) Seed and plant sale.

September? (to be announced)
Mushroom hike at Guin Woods, a
beautiful old-growth woods
owned by Ball State University.
Meet in Muncie to carpool to
the site.

Saturday, November 14
INPAWS Fifth Annual Meeting, location to be announced.



6106 Kingsley Drive Indianapolis, IN 46220 Non-Profit Organization U.S. Postage PAID Indianapolis, IN Permit No. 9892

Address Correction Requested