

AUTUMN 1986

**EVENTS,
NEWS,
&
CLASSES**

The Morton Arboretum



EVENTS

SEPTEMBER

- 1 Labor Day, Visitor Center Open 9 a.m. to 5 p.m.
- 3 Nature Study & Camera Club Meeting, Competition, Thornhill, 7:30 p.m.
- 6 Nature Ramble, Woodland Edges, Visitor Center 1 p.m.**
- 7 Guided Tour, *Introducing the Arboretum*, Information Building, 2 p.m.
- 14 Illinois Prairie Day, *Tours of the Prairie*, Visitor Center, 1 and 3 p.m.**
- 17 Nature Study & Camera Club Meeting, *Common Mushrooms of the Chicago Region*, Dick Wason, Thornhill, 7:30 p.m.
- 20 Guided Walk, *Exploring a Woodland Legacy*, Visitor Center, 1 p.m.**
- 20-21 Open-Air Bus Tours, Visitor Center, 1 and 2 p.m.**
- 21 Looking at Plants, *Ornamental Plants of China and Japan*, Visitor Center, 2 p.m.**
- 22 Bonsai Society Meeting, Research Center, 7:30 p.m.
- 27 Nature Ramble, *Tree Identification*, Visitor Center 1 p.m.**
- 27-28 Open-Air Bus Tours, Visitor Center, 1 and 2 p.m.**

OCTOBER

- Week-days Open-Air Bus Tours, Visitor Center, 1 and 2 p.m. (throughout the month).**
- 1 Nature Study & Camera Club Meeting, Competition, Thornhill, 7:30 p.m.
- 4-5 Annual Bonsai Show, Thornhill, 10 a.m.-5 p.m., \$1 per person
- 4 Open-Air Bus Tours, Visitor Center, 12, 1, 2, 3 p.m.**
- 5 Open-Air Bus Tours, Visitor Center, 11 a.m., 12:30, 2, 3:30 p.m.**
- 5 Guided Tour, *Introducing the Arboretum*, Information Building, 2 p.m.
- 11 Open-Air Bus Tours, Visitor Center, 12, 1, 2, 3 p.m.**
- 11 Nature Ramble, *Fall Color*, Visitor Center, 1 p.m.**
- 12 Open-Air Bus Tours, Visitor Center, 11 a.m., 12:30, 2, 3:30 p.m.**
- 13 Open-Air Bus Tours, Visitor Center, 11 a.m., 12:30, 2, 3:30 p.m.**
- 13 Family Holiday Ramble, Visitor Center, 1 p.m.**
- 15 Nature Study & Camera Club Meeting, *Urban Deer Study*, Marty Jones, Thornhill, 7:30 p.m.
- 18 Guided Walk, *Exploring a Woodland Legacy*, Visitor Center, 1 p.m.**
- 18 Open-Air Bus Tours, Visitor Center, 12, 1, 2, 3 p.m.**
- 19 Open-Air Bus Tours, Visitor Center, 11 a.m., 12:30, 2, 3:30 p.m.**
- 25 Nature Ramble, *Natural History of Fall*, Visitor Center, 1 p.m.**
- 25 Open-Air Bus Tours, Visitor Center, 12, 1, 2, 3 p.m.**
- 26 Open-Air Bus Tours, Visitor Center, 11 a.m., 12:30, 2, 3:30 p.m.**
- 26 Daylight Savings Time Ends, gates open 9 a.m.-5 p.m.
- 27 Bonsai Society Meeting, Research Center, 7:30 p.m.

NOVEMBER

- 2 Guided Tour, *Introducing the Arboretum*, Information Building, 2 p.m.
- 5 Ski Program Orientation for returning volunteers, Cudahy, 7:30 p.m.

- 5 Nature Study & Camera Club, *Yellowstone*, Sandy Nykerk, Thornhill, 7:30 p.m.
- 9 Chamber Concert, *Flute and Harp Duo*, Joanna Turska and Lorraine Alberts, Thornhill, 2:15 p.m.*
- 15 Ski Program Orientation for returning volunteers, Cudahy, 9 a.m.
- 15 Ski Program Orientation for new volunteers, Cudahy, 10 a.m.
- 15 Nature Ramble, *Berries and Seeds—Autumn Harvest*, Visitor Center, 1 p.m.**
- 19 Nature Study & Camera Club, *Ecology of the Bug*, Ken Nelson, Thornhill, 7:30 p.m.
- 21 Special Lecture, *A Victorian Christmas*, Sunny O'Neil, Thornhill, 2 p.m.*
- 24 Bonsai Society Meeting, Research Center, 7:30 p.m.
- 27 Thanksgiving Day, all bldgs. closed.
- 28 Thanksgiving Holiday, Info. Bldg. and Ginkgo Shop open, all other bldgs. closed.

DECEMBER

- 6 Ski Program Orientation for new volunteers, Cudahy, 1 p.m.
- 7 Guided Tour, *Introducing the Arboretum*, Information Building, 2 p.m.
- 7 Chamber Concert, *Quintuplex Woodwind*, Thornhill, 2:15 p.m.*
- 13 Nature Ramble, *Natural Tree Ornaments—Cones, Fruits, & Flower Buds*, Visitor Center, 1 p.m.**
- 24 Christmas Eve, bldgs. close at noon.
- 25 Christmas Day, all bldgs. closed.
- 27 Family Holiday Ramble, Visitor Center, 1 p.m.*
- 28 Yuletide Celebration, Visitor Center, 2:15 p.m.*

* Preregistration and/or fee required.

**Open-Air Bus Tours \$1.50 per person; Nature Rambles, Guided Walks, Looking at Plants, Prairie Day Tours \$1 per person, \$3 family of 3 or more.



Sunny O'Neil, noted lecturer, floral designer, author, humorist, columnist, and TV personality, will present a special lecture entitled "A Victorian Christmas" on Friday, November 21, at 2 p.m. See the class listing (L1) under *Special Lecture* for details.

FIFTH ANNUAL FALL BONSAI SHOW, OCTOBER 4-5

Mark your calendar for October 4 & 5, 10 a.m. to 5 p.m., when the Morton Arboretum Bonsai Society's annual fall show will be open to the public at the Arboretum. There will be a large display of bonsai trees and an educational exhibit in the Thornhill Building, daily demonstrations of how to train small trees as bonsai in Cudahy Auditorium, movies, workshops with bonsai masters, and opportunities to talk informally with knowledgeable Society members.

Vendors will have bonsai stock plants, pots, tools, books and other materials for sale. For a modest entrance donation of \$1 (in addition to the Arboretum gate fee if you are not an Arboretum member), you can enjoy the exhibits, attend a master's demonstration, and see the movies. Children under 7 years old and your access to vendors require no entrance donation. Your entrance donation supports Morton Arboretum Bonsai Society activities at the Arboretum.

If interested in registering for a master workshop, please call 969-5682.

Bonsai masters in residence during this show will include Jack Wikle and Toshio Saburumaru. This year's show is dedicated to "Tosh", as he is affectionately known. In a very real sense, Tosh is the single person most responsible for organized bonsai activity in the entire Chicago region. We hope that you have an opportunity to meet this modest, marvelous man while you are at the show.

This popular event is becoming well known as an outstanding regional bonsai activity. If you are coming to the Arboretum to enjoy our outstanding fall color, visit the Bonsai Show at the same time!

1986-87 MEMBERS' CHAMBER CONCERT SERIES SUBSCRIPTIONS

The Arboretum will offer series subscriptions for the 1986-87 Chamber Concert Series. The subscription price for the five-concert series is \$32, with individual concert tickets priced at \$7 each.

Requests for series subscriptions should be mailed before October 9 to Chamber Music, The Morton Arboretum, Lisle, IL 60532; please enclose a stamped, self-addressed envelope for series tickets and program details.

Individual concert tickets will be available beginning October 9 at \$7 per concert at the above address. Please enclose a stamped, self-addressed envelope with your request for individual tickets also.

The Arboretum's after-concert receptions afford an opportunity to meet and talk with the musicians and fellow music lovers in the intimate setting of the Founder's Room. All concerts are scheduled for 2:15 p.m. at the Thornhill Conference Center.

November 9, 1986

Flute and Harp Duo, with Joanna Turska and Lorraine Alberts.

December 7, 1986

Quintuplex Woodwind

January 11, 1987

Guitar and Flute Duo, Jeffery Kust/Pamela Demos

February 8, 1987

Ariel Ensemble

March 8, 1987

Chicago Chamber Brass

EVENTS & NEWS

VOLUNTEERING AT THE ARBORETUM

The Arboretum's programs provide some of the most unusual and diverse volunteer opportunities in our area. Most require no scientific background. All provide an opportunity to get involved, get acquainted, and learn about the Arboretum.

Below are listed a few of our current volunteer opportunities. If you'd like to get involved this autumn, but aren't sure exactly what you'd like to do, call the Volunteer Office to talk about the many other ways you can help the Arboretum.

Development Researcher: Our Development Office is seeking help in researching potential new funding sources for the Arboretum. The work, both at the Arboretum and a downtown library, will involve research of resources, analysis of data, and record-keeping. If interested, the volunteer may participate in the preparation of grant proposals. Previous development experience would be most helpful, though it is not essential; one day weekly on a weekday basis is required.

Graphic Arts Technician: Our graphic arts support staff helps all other Arboretum departments in a variety of ways including exhibits, signage, and miscellaneous graphics projects. Using basic graphic tools, the volunteer technician will assist in sign production, badge making, and exhibit production. Artistic ability is not required, but accuracy, care, and attention to detail are essential. One to 1½ days weekly on a weekday basis is required.

Kitchen Aides: Our Resident Program provides a 2½-day (and night) intensive learning experience here at the Arboretum for local fifth-grade classes. For fall, we are looking for people who enjoy working with children to help at mealtimes with catered meals. If you have a couple of hours a week to spare at breakfast (7:15 to 9:15 a.m.), lunch (11:30 a.m. to 1:30 p.m.) or dinner (4:30 to 6:30 p.m.), and enjoy the kitchen, please help out for one meal a week in September and October.

For further information about volunteering at the Arboretum, please phone the Volunteer Office, Monday through Friday, at 968-0074.

NEW URBAN VEGETATION LABORATORY AT THE MORTON ARBORETUM

"An innovative new laboratory that could produce some lessons and plants" for urban environments, is the way *The New York Times* described the Morton Arboretum's Urban Vegetation Laboratory recently (June 4, 1986). The Laboratory, headed by Dr. George Ware, Research Administrator, is one outcome of an agreement between the Illinois State Toll Highway Authority and the Arboretum whereby the Authority has set up a \$2.5 million trust to support studies of adversities confronting trees and other plants in urban environments.

Foremost among these studies, says Dr. Ware, will be the development and management of "coping" plants — those that can tolerate airborne de-icing compounds and other pollutants, and others that can tolerate inhospitable urban "soil", excavated clay and fill material originating from disposal of urban rubble.

Another aspect to be studied will be the preservation and management of wetlands — much needed for flood control, cleansing, and aquifer recharge, but not always appreciated in

urban areas. The restoration and management of wetlands requires a combination of botanical, engineering, and planning skills not easily brought together. The Urban Vegetation Laboratory will also sponsor studies of remnant natural forests and prairies in the area.

Development of new kinds of trees and other plants will be carried on concurrently with the study of the preparation of planting sites and substrates of the new plants. Landscape aesthetics will be an inherent part of these approaches.

The work of this new laboratory promises to yield practical results that if applied could minimize the environmental impact of modern high speed highways throughout the United States.

1986-87 SKI PROGRAM VOLUNTEER TRAINING

Preseason training sessions for all volunteers interested in helping out with this year's Members' Ski Program are listed below. All volunteers must attend one training session. Note that shorter sessions are scheduled for volunteers returning from last year's program.

If you would like to be on Ski Patrol or help with ski registration duties at the Visitor Center, please contact the Volunteer Office at 968-0074 Monday through Friday for one of the following orientations:

Wednesday, November 5

Cudahy Auditorium, 7:30-8:30 p.m.

Orientation for returning volunteers.

Saturday, November 15

Cudahy Auditorium, 9-10 a.m.

Orientation for returning volunteers.

Saturday, November 15

Cudahy Auditorium, 10 a.m.-1 p.m.

Training for new volunteers.

Saturday, December 6

Cudahy Auditorium, 1-4 p.m.

Training for new volunteers.



A research goal of the Urban Vegetation Laboratory will be to select and breed plants able to survive on inhospitable sites such as this berm (constructed mainly of fill material) along the East-West Tollway in the Arboretum. A series of such berms is being built to protect the Arboretum's plant collections from adversities caused by salt spray and other tollway-related pollutants.

YULETIDE CELEBRATION, DECEMBER 28

Join us on Sunday, December 28 at 2:15 p.m. for the Annual Yuletide Celebration. This celebration has become one of the most popular holiday events in the western suburban area in recent years.

Our yule log hunt begins at the Visitor Center with a search of the grounds for the hidden log. The finders of the log ride it back to the Visitor Center for a ceremonial burning, with madrigal singing and hot wassail.

Watch your local papers for further details as the holiday season approaches.

CHARLES LEWIS TRAVELS TO THE NETHERLANDS FOR EXCHANGE RESEARCH

During the first two weeks of September, Charles Lewis will join Dr. Herbert Schroeder, Environmental Psychologist with the US Forest Service, for an exchange research trip to The Netherlands. This trip is the third of a series of ongoing exchanges between the U.S. Forest Service and The Netherlands Institute for Forestry and Landscape Planning at Wageningen which seek to establish joint research projects between the two countries.

Dr. Schroeder and Charles Lewis are particularly interested in the ways that people perceive and respond to settings which include vegetation. Dr. Schroeder is currently conducting a research program at the Morton Arboretum to understand how the Arboretum's landscapes are perceived and how they contribute to the lives of people who visit and use the Arboretum. In The Netherlands where new land can only be obtained by wresting it from the sea, Schroeder and Lewis are interested in determining the effect of land scarcity on its use for ornamental plantings, and the value that Netherlands gain from such plantings.

During the trip, Lewis and Schroeder will be meeting with researchers, city park managers, landscape architects and planners who are con-

cerned with public perception of vegetation in urban environments, and the contribution of vegetation to the quality of urban life. In addition, Lewis will be in contact with centers of horticultural therapy in The Netherlands. This trip had originally been scheduled for 1985. Mr. Lewis has received funds from a private foundation to pay for the cost of the trip.

A GARDEN OF WOODY HERBS

The east side of the Research Building extends a welcome to an intimate patio in and around which is nestled a garden of woody herbs. This garden, designed by Landscape Architect Tony Tynnik, demonstrates the many uses of herbs in creating pleasant landscape effects. As the garden matures, it will become a uniquely picturesque landscape of varying foliage and flower color, handsome plant forms, pleasant fragrances, and delightful textures. This subtle blending of texture, color, and form will encourage visitors to understand better the distinct qualities of each species and how they can add new charm to landscapes. A leisurely visit with time to enjoy the garden's beauty, study the plant characteristics, and sense their associations in composition will provide the greatest reward.



The Woody Herb Garden

MATCHING GIFTS

An increasing number of corporations and corporate foundations are offering matching gift programs. Though guidelines vary, employees, retirees, and directors may have their support of a nonprofit organization matched or doubled by their company. For example, if you make a gift to the Arboretum directly or by purchasing an individual, family or contributing membership, your company, if it sponsors a matching gift program, will make a similar or larger gift. Check with your personnel office to see if your company offers a matching gift program. It is up to the employee to initiate the matching gift, but it is well worth the effort when you realize that your gift or membership can be extended twofold or more.

GINKGO SHOP NEWS

Handsome is the word that best describes the necktie which is the newest addition to the line of goods bearing the Arboretum's logo. The pure silk tie is navy blue accented with our logo in taupe and green. The Ginkgo Shop also carries T-shirts, sweatshirts, sun visors, baseball caps, key rings, beverage mugs, and patches—all bearing the Arboretum's logo.

Members and visitors will also want to watch for the many new autumn gift items which will start to arrive in the first days of September.

We have also expanded our book selections.

On your next visit to the Arboretum, stop in at the Ginkgo Shop, located on the lower level of the Visitor Center-Information Building, for an interesting shopping experience.



CLASSES

INSTRUCTIONS FOR CLASS AND FIELD TRIP PARTICIPANTS

In seasons other than winter, Arboretum classes and field trips are held regardless of weather. Comfortable and appropriate field clothing, including walking shoes, is advised for outdoor activities. Please arrange your travel so that you arrive promptly for classes.

*Appropriate identification aids, such as binoculars, hand lenses and field guides, are recommended for these activities.

NATURAL HISTORY

N14 FIELD NATURAL HISTORY*

Many natural phenomena and interrelationships are evident in the fall season. This class will emphasize careful observations in various habitats of the Arboretum. Most of each session will be spent outdoors regardless of weather. Both sections meet in the Outpost. Limit, 20.

Section a: Leader, Dick Wason. 10 Tuesdays, 9:30 to noon, Sept. 16—Nov. 18. Fee: \$35 (members, \$29).

Section b: Leaders, Gloria Dobry & Helen Pierce. 6 Saturdays, 12 to 3 p.m., Sept. 13—Oct. 18. Fee: \$25 (members \$21).

N3a PRAIRIE PEDALING*

The prairie in autumn is a place of special appeal. Enjoy the colors of early fall with a leisurely ride through the Arboretum and a walk into the restored prairie to experience its seasonal aspect.

Leaders: Helen Pierce & Carol Way. **Saturday**, Sept. 20, 7:30 to 9:30 a.m. Visitor Center parking lot. Fee: \$2.50 (members, \$2). Limit, 30.

N3b CYCLING IN FALL COLOR*

Join us for an early morning ride in the peak forest fall color season. This ride will feature identification of trees by color, and an explanation of the changes that occur in trees as fall progresses.

Leaders: Helen Pierce & Carol Way. **Saturday**, Oct. 18, 7:30 to 9:30 a.m. Visitor Center parking lot. Fee: \$2.50 (members, \$2). Limit, 30.

FN60 BIRD WALKS FOR BEGINNERS*

A gentle jaunt to look and listen for birds and to learn recognition features for the common kinds. **Saturdays**, 9:30—11:30 a.m. Departure point: Thornhill Building front steps. Fee: \$3 (members, \$2.50). Limit, 20 (no organized groups, please).

Section a: Sept. 13: Leader, Gloria Dobry.

Section b: Sept. 27: Leader, Liz Bacon.

Section c: Oct. 4: Leader, Dick Wason.

FN260 INTERMEDIATE BIRD WALKS*

Field observations of birds on the Arboretum grounds, for those with previous birding experience. No children or organized groups, please.

Leader: Floyd Swink. 5 Thursdays, 8:30 to 11 a.m., Sept. 4—Oct. 2. Visitor Center courtyard. Fee: \$15 (members, \$12.50). Limit, 30.

The Arboretum's educational program, taken as a whole, is designed to foster understanding and appreciation of the importance that trees and other organisms have in natural ecological systems and in environments modified by humans, and to convey the responsibility each person must assume for the well-being of nature in our immediate, regional and world-wide surroundings.

N140 UNDERSTANDING THE LANDSCAPE

Two illustrated lecture-discussions on how and when the glaciers shaped our local landscape, followed by a local field trip to explore and identify the natural features that are all around us. Join us and learn to appreciate how varied and interesting this part of Illinois really is! Leader: Pat Kelsey. 2 Thursdays, 7:30 to 9:30 p.m., Oct. 9 & 16, and **Saturday**, Oct. 18, 9 a.m. to 3 p.m. Cudahy Auditorium, Administration Building. Fee: \$22.50 (members, \$18.50). Limit, 20.

BOTANICAL TOPICS

FB16 MUSHROOM MEANDER*

A walk on the Arboretum grounds to search for fall fungi. Participants should wear their favorite hiking shoes and be prepared for rain or wet grounds. An indoor after-lunch session for those interested in beginning to learn how to identify mushrooms will begin at 1 p.m. Bring a bag lunch or visit the Ginkgo Restaurant. Leader: Dick Wason. **Saturday**, Oct. 18, 9:30 to noon. Botany Lab, Research Center. Fee: \$5 (members \$4). Limit, 20.

B215 INTRODUCTION TO MUSHROOMS*

A beginner's course in fleshy fungi, emphasizing gilled mushrooms, with discussions on structure, nomenclature and ecology, and including considerable guided practice in the generic identification of specimens collected on brief forays. Some attention to wild mushrooms as food will be given. Open only to those with little experience in mushroom study.

Leader: Dick Wason. 7 Mondays, 9:30 a.m. to noon, Sept. 15—Nov. 3, omitting Oct. 13. Botany Lab, Research Center. Fee: \$39.50 (members, \$32.50). Limit, 18.

B219 INTERMEDIATE MUSHROOM IDENTIFICATION

Prerequisite: B215 or equivalent. Focus will be on the identification to species of local fungi, emphasizing agarics. Consideration of the classification of fungi and microscopic features used in taxonomy will be included. Required text, *How to Know the Gilled Mushrooms* (Smith, Smith & Weber), is available in the Arboretum's gift shop. Leader: Dick Wason. 5 Mondays, 7:30 to 9:30 p.m., Sept. 15—Oct. 27, omitting Oct. 6 & 13. Botany Lab, Research Center. Fee: \$22.50 (members, \$18.50). Limit, 18.

B158 WILDFLOWERS OF FALL

Had you noticed that flowers of fall are just as showy (but perhaps less appreciated) as those of spring? In these sessions, we will concentrate on developing a deepened appreciation of asters, goldenrods and grasses.

Leader: Liz Bacon. 3 Tuesdays, Sept. 16, 23 & 30, 9:30 a.m. to noon. West classroom, Thornhill Building. Fee: \$17 (members, \$14).

CLASSES (continued)

FB150 **FALL WILDFLOWER WALK***
A leisurely walk to enjoy goldenrods, asters, grasses and other fall-blooming plants. Families are welcome; young children should be supervised.
Leader: Liz Bacon. **Saturday**, Sept. 20. Parking lot 25. Fee: \$3 (members, \$2.50). Limit, 25.
Section a: 9:30 to 11:30 a.m.
Section b: 1 to 3 p.m.

FB178 **CRUISE AN INLAND SEA: THE PRAIRIE IN AUTUMN**
The Arboretum's Prairie Restoration Project began 25 years ago. But the saga of tallgrass prairie, the context in which our prairie is set, spans a much greater time. Join us for a two hour walk in the Arboretum's prairie. We will enjoy the colors and textures of the autumn prairie, identify plants, and seek out the prairie gentian. Afterward, we will go to the Outpost for some home cooking and more prairie stories. Fee includes \$8 for supper.
Leader: Craig Johnson. **Sunday**, Sept. 21, 3 to 7:30 p.m. Parking lot 25. Fee: \$18 (members, \$16). Limit, 25.

B201 **TREES OF THE CHICAGO REGION***
Learn how to identify the trees of Chicagoland quickly and precisely. In this course, we will seek out, identify and learn the recognition features of as many tree of the region as we can encounter—especially recommended for employees of tree care firms and nurseries, Scout leaders, or anyone else who wants to become the neighborhood whiz on tree identification! Leader: Craig Johnson. **5 Saturdays**, 1 to 4 p.m., Sept. 6—Oct. 4. Botany Lab, Research Center. Fee: \$34 (members, \$28). Limit, 20.

B321 **THE COMPOSITES**
Plants of the Aster Family are among the most successful seed plants on earth. Fall is the prime flowering time for many genera of this group. We will take advantage of the fresh material available and supplement our studies of composite biology, structure and taxonomy with herbarium material. Join us and gain new understanding of this important, complex group of plants!
Leader: Bill Hess. **5 Thursdays**, 9 a.m. to noon, Sept. 4—Oct. 2. Botany Lab, Research Center. Fee \$34 (members, \$28). Limit, 15.

HORTICULTURE & LANDSCAPING

H1 **CHINA AND THE APPALACHIANS: A COLLECTIONS WALK**
Plants native in these two areas furnish a large percentage of the woody plants that are useful for home landscapes in the Chicago region. In our walk through these collection areas, we will examine the merits and discuss the requirements of a number of these plants. We will also discuss other woody plants that we encounter *en route* to these areas. Participants will receive a summary handout to take home.
Leader: Ross Clark. **Saturday**, Sept. 27, 9:30 to noon. Administration Building patio. Fee: \$5 (members, \$4). Limit, 25.

H2 **PROPAGATION FACILITIES TOUR**
The propagation group is responsible for raising the new trees and shrubs that are the Arboretum collections' future. Join our Propagator and follow the process of growing them, from exotic seeds through germination, greenhouses and nursery areas, including an explanation of how we keep records on the thousands of plants with which we work.
Leader: Kris Bachtell. **Saturday**, October 11, 1 to 3 p.m. Horticulture Lab, Research Center. Fee: \$3.00 (members free, but registration required). Limit, 24.

H221 **PROPAGATING BY BUD GRAFTING**
Although it is not commonly practiced by the homeowner, bud grafting is a common method of propagating shade and flowering trees in the nursery industry. Join us for this unusual opportunity to learn this special propagating technique by "hands-on" practice.
Leader: Kris Bachtell. **Saturday**, Sept. 6, 9:30 to 11:30 a.m. Horticulture Lab, Research Center. Fee: \$5 (members, \$4). Limit, 20.

FH32 **DECIDUOUS SHRUBS IN THE FALL LANDSCAPE**
Junipers are fine, but . . . The variety of deciduous shrubs adaptable for landscape use is tremendous. They provide helpful living screens with various textures, excellent habitat for birds, often have interesting flowers and fruit, and—as you shall see—often provide excellent fall (and even winter) color in the landscape. Join us for new ideas for fall or spring planting that you can use in your own home landscape.
Leader: Tony Tyznik. **Thursday**, Oct. 9, 1 to 3:30 p.m. Administration Building patio. Fee: \$5 (members, \$4).

H225 **EVERGREEN GROUND COVERS**
There are good spots in almost every yard for ground covers. They are good, low maintenance alternatives to grass, particularly in difficult or shady situations. Evergreen ground covers offer winter landscape color and texture as well. Join us for a walking tour as we discuss the growth forms, planting and cultural requirements, disease and pest problems, and propagation of low evergreens that are well-adapted to our region.
Leader: Ann Hruska. **Saturday**, Sept. 20, 9:30 to 11:30 a.m. Administration Building patio. Fee: \$5 (members, \$4). Limit, 20.

H276 **INTERMEDIATE BONSAI**
Prerequisite: a beginners' course, or permission of instructor. A tutorial course, designed for those who have a working background in bonsai. We will emphasize advanced techniques, styling and refinement. Students will furnish all of their own materials.
Leader: Ivan Watters, 8 Wednesdays, 7 to 10 p.m., Sept. 3—Nov. 5, omitting Sept. 10 and Oct. 8. Botany Lab, Research Center. Fee: \$55 (members, \$45). Limit, 20.

ART, NATURE PHOTOGRAPHY & CRAFTS

A110 **BEGINNING BOTANICAL ART**
Beginners in art and those interested in the botanical study of plants they may be drawing are invited to join this class—high school and college students are welcome! As we study and draw the details of living plants from the Arboretum's collections, we will emphasize eye-hand coordination and develop our capacity to understand our subjects from a critical botanical standpoint. Drawing exercises, weekly assignments (completed at home) and critiques of work completed will be regular activities. A materials list will be sent to all registrants.
Leaders: Peach Simonds, artist; Ed Hedborn, botanist. **6 Tuesdays**, 7 to 9:30 p.m., Sept. 16—Oct. 21. Botany Lab, Research Center. Fee: \$37 (members, \$31). Limit, 15.

A210 **INTERMEDIATE BOTANICAL ART**
Prerequisite: a botanical art class or previous art experience. Join us and build a capacity for critical observation and skills as a botanical artist. We will concentrate on refining techniques in pencil, pen and ink, and other media, as we learn the botany of the plants with which we work. A materials list will be sent to you before the first class meeting. Be prepared to complete assignments at home. Those who have previously enrolled in this class are encouraged to continue on this level for a time.
Leaders: Ann Norton, artist; Ed Hedborn, botanist. **6 Tuesdays**, 7 to 9:30 p.m. Sept. 16—Oct. 21. Horticulture Lab, Research Center. Fee: \$37 (members, \$31). Limit, 15.

A316 **PLANTS IN WATERCOLOR**
Studies of plants painted in English watercolor style. It will be very helpful if you previously have taken English watercolor classes at the Arboretum or elsewhere. Some work in addition to class time will be necessary. Bring all of your materials to the first class; if you need a materials list, please request one from the Registrar. We will spend more than one session on a specific plant when necessary.
Leader: Nancy Hart. Fee: \$54 (members, \$44). Limit, 15.
Section a: **8 Wednesdays**, 9:30 a.m. to 12:30 p.m., Sept. 24—Nov. 12. Botany Lab, Research Center.
Section b: **8 Saturdays**, 9 a.m. to noon, Sept. 27—Nov. 15. Room 010-011, Research Center.

A226 **SCENIC NATURE PHOTOGRAPHY**
The remembering mind is a marvelous composer of scenes once viewed - if it had only guided the camera correctly at the time, the quality of our pictures would match our visual memories! This class will help you to close the gap between what your outdoor photographs show and what those unforgettable scenes were really like. Included topics are: basic 35mm camera care and technique, principles of exposure and depth of field, lenses and filters. You will move far beyond these basics, as you learn to capture the essence of such difficult subjects as waterfalls and waves, sunsets, and forest interiors on rainy days. Students may bring 1 or 2 of their own slides each evening for helpful criticism.
Leaders: John & Kitty Kohout. **6 Thursdays**, 7:15 to 9:45 p.m., Sept. 18 through October 30, omitting Oct. 9. Lower level of Research Center. Fee: \$34 (members, \$28). Limit, 60.



A1 **DECORATING FOR CHRISTMAS**
A workshop designed to help you make your own special decorations for the season! We will discuss materials, demonstrate techniques and, during the following work session, you will create your own decorations to take home. Bring some of your own materials for the items you wish to make—wire frames for wreaths, heavy cord and pliable wire for swags and roping, cones, candles, ribbons, etc. Greens can be purchased at nominal cost, but you may wish to bring your own. Also, bring your pruning shears and lunch.
Leader: Tony Tyznik. Audubon Room, Thornhill Building, 9:30 a.m. to 3:30 p.m. Fee: \$13.50 (members, \$11). Limit, 50.
Section a: **Thursday**, Dec. 4.
Section b: **Friday**, Dec. 5.

A3 **PRESSED FLOWER TECHNIQUES**
A series of two workshops to help you learn to create handmade pictures, cards and book-marks from pressed flowers. During the first session, you will learn techniques of collecting and preserving materials by actually doing it. In the second session, we'll use our collections from the previous week to make items of our choice, and will discuss related topics. Dress for outdoor walking during the first meeting, and bring scissors to both sessions. Fee includes materials, except frames, which will be available at cost during our second meeting.
Leaders: Nina Podrasky & Betty Hill. **2 Thursdays**, 9:30 a.m. to noon, Sept. 18 & 25. Herbarium, Research Center (1st session); Room 010-011, Research Center (2nd session). Fee: \$12 (members, \$10.50). Limit, 15.

ACTIVITIES FOR YOUNG PEOPLE

YB140 **TREES FOR TOTS**
A short awareness walk designed for pre-schoolers and parents together, to explore the world of trees. After the walk, children will do crayon leaf rubbings which they may take home.
Leaders: Arboretum Naturalist-Guides. West classroom, Thornhill Building. Fee: \$3.50 (members, \$3); no charge for parents. Limit, 20 children with parents.
Section a: **Saturday**, Oct. 18, 10 to 11:30 a.m.
Section b: **Saturday**, Oct. 18, 1 to 2:30 p.m.

YN101 **LIFE IN THE FIELDS IN FALL**
Investigations in the Arboretum's miniprairie, old fields and lawns to observe seasonal changes, recognize some of the common plants and animals, and to consider the ecological significance of things observed. A magnifier is included in the fee, for observing insects, seeds, and other interesting "treasures of nature."
Leaders: Arboretum Naturalist-Guides. **Saturday**, Sept. 20, 9:30 a.m. to noon. Fee: \$5.50 (members \$4.50). Limit, 20.
Section a (Grades 1 & 2): West classroom, Thornhill Building.
Section b (Grades 3 & 4): Godshalk Hall, Thornhill Building.

YN102 **LIFE IN THE FALL WOODLAND**
Visits to Arboretum woodlands to seek answers to questions raised by the changing of the seasons. Which plants and animals are most abundant? What happens to leaves before and after they fall? When and how do buds form? Where do animals go when winter comes? How do wildflowers survive the cold? Fee includes a small hand lens that may be taken home.
Leaders: Arboretum Naturalist-Guides. **Saturday**, Oct. 25, 9:30 a.m. to noon. Fee: \$5.50 (members, \$4.50).
Section a (Grades 1 & 2): West classroom, Thornhill Building.
Section b (Grades 3 & 4): Godshalk Hall, Thornhill Building.

YB100 **KNOWING YOUR TREES (Grades 6-12)***
If you are making a leaf collection this fall, please register for this activity instead of coming to the Arboretum to collect leaves on your own. In addition to helping you identify trees and allowing you to collect leaf samples, we will help you learn more about the trees themselves. **You must register in advance for this activity**, since we will be sending you an instruction sheet and a tree list before class meets; **no last-minute registrations, please**. Fee includes a copy of May T. Watts' *Tree Finder*.
Leaders: Arboretum Naturalist-Guides. 1 to 3:30 p.m. Fee: \$5.50 (members, \$4.50). Limit, 20 per section; no organized outside classes, please.
GRADES 5 & 6: West classroom, Thornhill Building.
Section 1a: **Saturday**, Sept. 20.
Section 1b: **Saturday**, Sept. 27.
GRADES 7 & 10: Godshalk Hall, Thornhill Building.
Section 2a: **Saturday**, Sept. 20.
Section 2b: **Saturday**, Sept. 27.

TEACHERS' WORKSHOPS

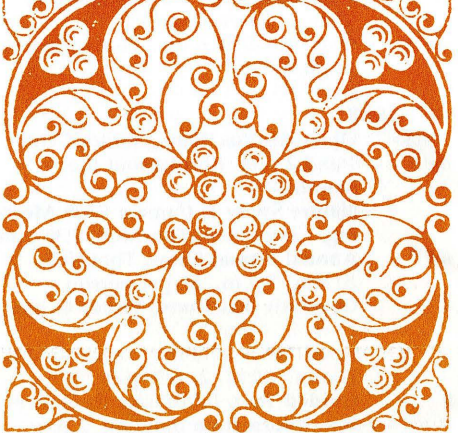
N310 **FREE TEACHERS' WORKSHOPS Saturday, September 13, 9:30 a.m. to noon**
Attendance at these workshops qualifies teachers and other youth leaders to lead their own groups at the Arboretum on these topics. (If you self-guide your group, one workshop-certified teacher is required for each 15 students.) Register by using the regular registration form, and include the name of your school or organization. For further information, contact the Registrar at 312/969-5682. Meet in the Visitor Center courtyard.
Leaders: Arboretum Naturalist-Guides.
Section a: MEADOW, LAKE & WOODLANDS. West side Arboretum locations, featuring plants and animals of the three habitats.
Section b: TREES AND PEOPLE. East side locations, featuring tree identification and meadow and wetland areas.
Section c: NATURE WALKS FOR PRESCHOOLERS. Visits to selected Arboretum areas that provide opportunities for nature awareness activities with young children.

FOR COLLEGE CREDIT

FOREST ECOLOGY & MANAGEMENT
Geography 413, Northern Illinois University
Forest tree identification and environmental requirements. Problems of forest management and assessment of conflicting social and economic demands. Field trips are required. Prerequisite: GEOG 253 (Nat. Resources & Environmental Quality) and BIOL 200 (Principles of Biology) or consent of department/instructor. **3 semester hrs. of undergraduate or graduate credit.** Instructor: Dr. Steve Messenger. Tuition is \$56.50/credit hr. for undergraduates, \$57.50/hr. for graduates, payable to the University. (You may register by telephone: contact the Arboretum Registrar at 312/969-5682 for details.)
Wednesdays, Sept. 10—Dec. 10, 6 to 9 p.m. Horticulture Lab, Research Center.

SPECIAL LECTURE

L1 **A VICTORIAN CHRISTMAS with Sunny O'Neil Friday, November 21, 2 p.m.**
Join us for this special session with Sunny O'Neil, noted floral designer from Bethesda, Maryland. Mrs. O'Neil's floral art work is on exhibit at the Smithsonian Institution and has been featured in numerous national magazines. She has designed Christmas trees for the White House, the Vice President's House, and the Corcoran Gallery. She is a past president of the Capitol Speakers Club, and her sparkle, humor and enthusiasm have made her a favorite with audiences across the country and around the world. She speaks with exceptional knowledge about a unique topic—Victorian Christmas traditions—and evokes for her listeners the delicate beauty and elegance of the 19th-century holiday season. Through slides and descriptions, she creates real understanding and feeling for this bygone era. Mrs. O'Neil is a recognized authority on Victorian floral design traditions, and her expertise shows in the ease with which she approaches and captivates audiences. There will be an informal reception afterward in the Founder's Room.
Audubon Room, Thornhill Building. Fee: \$7.50. Limit, 200.



EVENING LECTURES

L2 **UNDERSTANDING YOUR ROOTS Tuesday, Sept. 16, 8 to 9:30 p.m.**
All of us appreciate the benefits trees give us. Aside from sunlight and air, all important tree growth requirements are delivered by the root system, a part of trees about which many of us know little and think even less. We invite you to join Dr. Gary Watson, the Arboretum's root specialist, for an informative and practical look at how woody plant root systems work and how to keep them healthy. Gary will include such topics as how roots grow, how the soil influences root growth, how mycorrhizae fit into the picture, and how you can help or hinder the health of your trees by transplanting and landscaping techniques. This kind of information is not easy to obtain from reliable sources.
Leader: Gary Watson. Cudahy Auditorium, Administration Building. Fee: \$3 (members, \$2.50). Limit, 100.

L3 **FALL BULBS FOR SPRING BLOOMS Tuesday, Sept. 23, 8 to 9:30 p.m.**
Fall is the time for planting bulbs to brighten your home landscape. We will cover tips on selection, planting, fertilization and pests, along with how you can encourage bulbs to bloom well year after year, and how to plant a variety of types that assures a longer blooming season. Each participant will receive 3 species tulip bulbs for home planting.
Leader: Ann Hruska. Fee (includes bulbs): \$4.50 (members, \$4). Limit, 100.

L4 **THE FORGOTTEN NATURALIST: CHARLES-ALEXANDRE LESUEUR 2 Mondays, Oct. 6 & 13, 7:30 to 8:30 p.m.**
Lesueur (1778-1846), born in France, spent 21 years of his life in the United States, but is almost unknown here. In his youth, he took part in an ill-fated expedition to Australia on which the lives of most crew and scientists were lost, but which brought back to France the largest natural history collection ever assembled on a single expedition. He was an extraordinarily talented artist, and was hardly ever without a pencil or graver in his hand. In North America he produced a large number of natural history and landscape drawings and paintings, published many scientific papers, made rich collections, and began a major work on native fish. He was among the Philadelphia elite that followed Robert Owen to New Harmony, Indiana, and lived there 12 years. After returning to France, he founded the Natural History Museum at Le Havre and became its first director. His collections were destroyed during World War II, but, thanks to quick work by a museum curator, his paintings, drawings, manuscripts and notes survived and provided a rich archive of his life and travels. His excellent work remains largely unknown and unappreciated. Join us for two illustrated lectures on this forgotten genius.
Leader: Ian MacPhail. Sterling Morton Library. Fee: \$6 (members, \$5).

L5 **HOTHUSES AND HERBACEOUS BORDERS Tuesday, Nov. 11, 7 to 10 p.m.**
British gardening styles and techniques, from the Victorians to the Surrey School (19th and early 20th centuries) have had a more significant effect on American landscaping ideals than any other influence. This evening's program will explore the colorful people and cultural tides which combined to create some of England's greatest garden legacies. Illustrated with slides and the rich resources of Sterling Morton Library, we promise that his program will tempt you into some humorous philosophizing and serious planning for your own garden. Tea and shortbread will be served during the break.
Leader: Karla Patterson. Cudahy Auditorium, Administration Building. Fee: \$6. Limit, 100.



REGISTRATION INFORMATION

To register, please fill out the form below, detach and mail registration form with a check made payable to the Morton Arboretum in an amount appropriate to class fees. If you wish to register with another person and will accept a place in class only if the other individual is accepted, please asterisk your names. Register by the due date listed below; a lottery for oversubscribed classes will be held on that date. **If you want to register after the due date, please call the Registrar (969-5682)** first to see about openings and cancellations. Registration for under-subscribed classes will continue until ten days prior to the first class session at which time registration will close and classes with insufficient enrollment will be cancelled. If you want confirmation of class status please enclose a **self-addressed stamped envelope** with your registration.
Class fees are not transferable. Refunds requested by registrants will be granted **only** if we receive notice 10 days prior to the start of the class. A \$5 handling fee will be retained and no refunds under \$5 will be given.
The Arboretum wishes to afford all members an equal opportunity to be accepted in classes, and we will need your cooperation. If after acceptance you find



FIELD TRIPS

F60 **BIRDING ALONG CHICAGO'S LAKEFRONT* Saturday, Sept. 20, 8 a.m. to 2 p.m.**
Chicago's Lake Michigan shore has many excellent localities for seeing migrating land and water birds. Join us for a weekend outing in the migration season as we visit the following "hot spots" for interesting birding: Montrose Harbor, Lincoln Park Bird Sanctuary, Navy Pier, Wooded Island, and the Lake Calumet area. Meet in the Montrose Harbor parking lot near the bait shop. Bring your field guides, binoculars, spotting scopes, lunch and beverage. If unsure how to reach the Montrose Harbor parking lot, please request travel directions from the Registrar.
Leaders: Gloria Dobry & Mike Spravka. Fee: \$10.00. Limit, 25.

F54 **ILLINOIS BEACH STATE PARK* Friday, Sept. 26, 10 a.m. to 2:30 p.m.**
Join us for an outing to an especially interesting part of our inland coastline! Observations of geology, native vegetation, wildflowers and fauna will be included. Bring your lunch and beverage. **We will meet at the Park's Nature Center at 10 a.m. sharp.** When you register, we'll send travel directions to the Park (near Zion, Illinois).
Leader: Floyd Swink. Fee: \$10. Limit, 35.



that you can not attend class, please notify the Registrar (969-5682) so that your place may be given to someone on the waiting list.

EVENTS, NEWS, AND CLASSES PRODUCTION STAFF
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Graphic Designer: Nancy Hart
Photographer: John Kohout
Editor, Production Coordinator: Joseph Larkin

OUR INSTRUCTORS

FULL-TIME ARBORETUM EMPLOYEES
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ROSS CLARK, *Curator of Education*
NANCY HART, *Art Coordinator*
ED HEDBORN, *Plant Recorder/Computer Information Manager*
BILL HESS, *Curator of the Herbarium*
CRAIG JOHNSON, *Development Officer*
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JOHN KOHOUT, *Photographer*
IAN MACPHAIL, *Research Fellow & Curator of Rare Books*
KARLA PATTERSON, *Curator of Visitor Services*
NINA PODRASKY, *Herbarium Assistant*
MIKE SPRAVKA, *Research Assistant*
FLOYD SWINK, *Taxonomist*
TONY TYZNIK, *Landscape Architect*

FH78 **BACK TO THE NATIVES Saturday, Oct. 11, 9 a.m. to 2 p.m.**
Many native woody plants show great promise as ornamental landscape subjects. As a group, native woody plants are more well adapted, are less likely to become weedy, and have fewer pest problems. Surprisingly, many of these proven plants are passed over in favor of their Chinese and Eurasian counterparts. Connor and Jo Shaw, of Possibility Place Nursery in Monee, are putting and end to the dilemma of where to find many of these well-adapted native plants. With the aid of modern drip irrigation and feeding techniques, they are making many beautiful native woody plants available to the nursery trade. A number of the plants they grow are rare and difficult to locate elsewhere. A place this unusual deserves a visit! Be prepared to tour the nursery and the Shaw's garden rain or shine. **Our bus will leave promptly at 9 a.m. from the Research Center parking lot.** Please bring your lunch; beverage will be provided.
Leader: Karla Patterson. Fee: \$19. Limit, 45.

F125 **GRACEFUL FORMS: INDIANA DUNES IN AUTUMN* Saturday, Oct. 18, 8 a.m. to 4 p.m.**
Some of North America's pioneering work in plant ecology was accomplished in the Lake Michigan dunes. Many plants common in the dunes are rare or absent elsewhere in the region, and the dynamic shoreline illustrates important ecological concepts. Join us as we read the landscape in this special place. Meet in the Research Center parking lot by 8 a.m. sharp if you are carpooling. Driving directions will be sent to you if you request them. Bring lunch and beverage.
Leader: Craig Johnson. Fee: \$12. Limit, 25.

F165 **WATERFOWL IN FALL MIGRATION* Saturday, Oct. 25, 9 a.m. to 2 p.m.**
Observations of migrating birds in the Palos area, concentrating on waterfowl. Some attention will be given to the local flora as well. Meet at the Little Red Schoolhouse Nature Center on Willow Springs Road, 0.5 mile south of 95th Street, south of Willow Springs. Bring lunch.
Leader: Gloria Dobry & Mike Spravka. Fee: \$10. Limit, 35.

SEND APPLICATION AND FEES TO: REGISTRAR, THE MORTON ARBORETUM, LISLE, ILLINOIS 60532

REGISTRATION FORM

Name: _____ ☐ Member ☐ Non-member
Address: _____ Daytime telephone: _____
Town: _____ Zip: _____ Evening telephone: _____

Class #	Sect.	Class Title	Applicant's Name	Fee

Have you enclosed your return envelope? ☐ YES ☐ NO
Make checks payable to THE MORTON ARBORETUM

FOR OFFICE USE ONLY	ENT	MAT'Ls	MEMBER#	REFUNDS: \$ #	DATE:

MEMBERSHIP APPLICATION

<hr/>	
<i>Name</i>	<i>Date</i>
<hr/>	
<i>Address</i>	<i>Daytime telephone</i>
<hr/>	
<i>Town</i>	<i>Zip</i>
<input type="checkbox"/> <i>New</i>	<input type="checkbox"/> <i>Renewal</i>
<hr/>	

Type of membership preferred:
☐ Individual \$25 ☐ Family \$35
☐ Contributing \$100 or more
Master Charge No. _____
Visa (BankAmericard) No. _____
Credit card expiration date: _____
Signature: _____
Is this a gift membership? ☐ yes ☐ no
If yes, from whom _____
Address
Town Zip Telephone
Please make checks payable to THE MORTON ARBORETUM and mail to: Membership Office, The Morton Arboretum, Lisle, Illinois 60532.

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LISLE, ILLINOIS 60532

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