

1981

The Bell Natural History Museum, An Aid to Teaching Botany

Harold W. Hansen
St. Olaf College

Follow this and additional works at: <https://digitalcommons.morris.umn.edu/jmas>



Part of the [Botany Commons](#)

Recommended Citation

Hansen, H. W. (1981). The Bell Natural History Museum, An Aid to Teaching Botany. *Journal of the Minnesota Academy of Science, Vol. 47 No. 1*, 12-14.

Retrieved from <https://digitalcommons.morris.umn.edu/jmas/vol47/iss1/5>

This Article is brought to you for free and open access by the Journals at University of Minnesota Morris Digital Well. It has been accepted for inclusion in Journal of the Minnesota Academy of Science by an authorized editor of University of Minnesota Morris Digital Well. For more information, please contact skulann@morris.umn.edu.

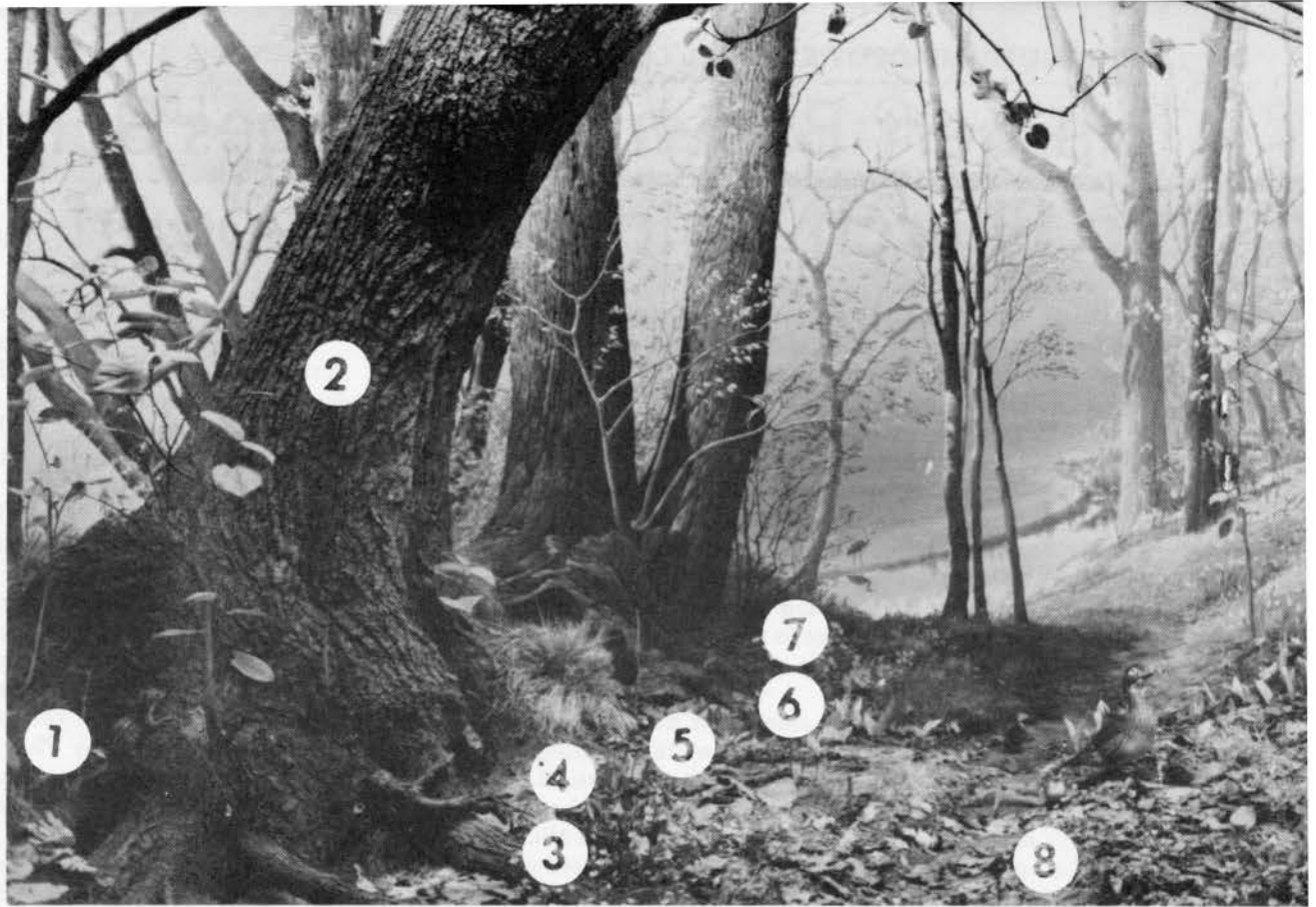


Fig. 1 - Number key to plants in Maple-Basswood Forest photograph

- | | | | |
|---|---|---|---|
| 1. <u><i>Asarum canadense</i></u>
Wild Ginger | 5. <u><i>Arisaema triphyllum</i></u>
Jack-in-the-Pulpit, Indian Turnip | 9. <u><i>Viola pubescens</i></u>
Common Yellow Violet | 13. <u><i>Trillium grandiflorum</i></u>
Large-flowered Trillium |
| 2. <u><i>Tilia americana</i></u>
Basswood | 6. <u><i>Aplectrum hyemale</i></u>
Putty Root, Adam and Eve | 10. <u><i>Allium tricoccum</i></u>
Wild Onion, Wild Garlic, Wild Leek | 14. <u><i>Dicentra cucullaria</i></u>
Dutchman's Breeches |
| 3. <u><i>Isopyrum biternatum</i></u>
False Rue Anemone | 7. <u><i>Phlox divaricata</i></u>
Wild Blue Phlox, Wood Phlox | 11. <u><i>Cornus alternifolia</i></u>
Alternate-leaved or Pagoda Dogwood | 15. <u><i>Sanguinaria canadensis</i></u>
Bloodroot |
| 4. <u><i>Mertensia virginica</i></u>
Virginia Cowslip, Bluebells, Lungwort | 8. <u><i>Hydrophyllum virginianum</i></u>
Virginia Waterleaf | 12. <u><i>Trillium cernuum</i></u>
Nodding Trillium | 16. <u><i>Maianthemum canadense</i></u>
False Lily of the Valley |

The Bell Natural History Museum

HAROLD W. HANSEN

ABSTRACT — Much of the regular academic year does not lend itself to observation of plants in their natural habitat outdoors. The museum exhibits can serve as study aids in the off season, although they should not be utilized as substitutes for field work. This study systematized some materials available for class use. Museum files, display legends, and original observations were used. From the Bell Museum of Natural History, 112 exhibits were listed and coded for location; 384

The James Ford Bell Museum of Natural History at the University of Minnesota contains a wealth of material for students interested in plants, especially those native to Minnesota, their identification and their environmental associations. Of the 112 exhibits included in this study, only two are exclusively titled by the plants which they feature (Maple-Basswood Forest and Spruce-Fir-Pine Forest); one, Wild Lupine and Lark Sparrow, bears a title shared with a bird.

While virtually all the exhibits are titled by the names of the animals, they nevertheless contain fine examples of

**HAROLD W. HANSEN is a professor of biology at St. Olaf College, Northfield, Minnesota.

plant life as a part of the natural habitat for those animals.

Exhibits certainly should not be used as a substitute for field work or in place of a detailed laboratory study of plants, but they may indeed serve as a valuable learning aid during winter months, for convenient reviews, and for appreciating the plants associated together in various habitats.

Exhibits usable in "off-season"

Museum visits have been particularly helpful to my students who register for a course in Taxonomy taught during the January Interim or for a course in Spring Flora. Field recognition of plants is impossible for the first of these courses; it may be unlikely for the second, depending on the lateness of spring and an academic calendar in which



Fig. 2 - *Sanguinaria canadensis*,
Bloodroot

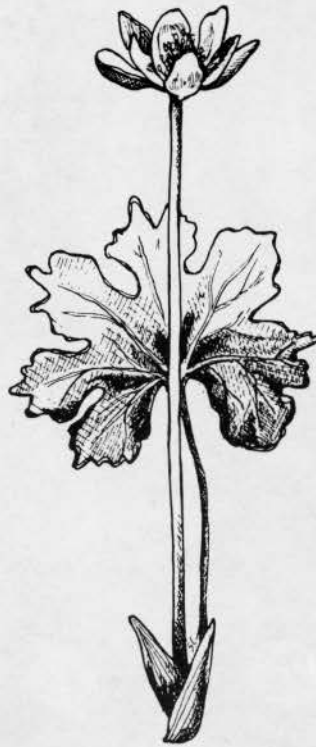


Fig. 3 - *Ostrya virginiana*
Ironwood



Fig. 4 - *Collybia velutipes*
Velvet-stemmed Collybia

be adequate for student use, but a printed version is planned for the future.

It is hoped that others will be encouraged to use the museum exhibits in this way and that additional detailed studies will be added by this approach.

ACKNOWLEDGEMENTS

The author is indebted to many individuals for assistance in this project. Special thanks are due to Don Luce of the museum for his cooperation. The contribution of Dr. Edward Cushing of the University of Minnesota is acknowledged for his listing of some of the plants in 1977, as are the helpful suggestions of Dr. G. B. Ownbey. Finally, thanks are due to those unidentified individuals who through their work left valuable information on the display legends or in the museum files, and to Steve Carpenter for preparing the drawings.

This project was part of work undertaken during a sabbatical leave from St. Olaf College. A Faculty Growth Award from The American Lutheran Church supplied additional funding.

REFERENCES

- CHRISTENSEN, CLYDE M. 1955. Common Fleshy Fungi. Minneapolis, Burgess Publishing Co.
 FERNALD, MERRITT LYNDON. 1950 Gray's Manual of Botany. New York, American Book Company.
 MORLEY, THOMAS. 1969. Spring Flora of Minnesota. Minneapolis, U. of Minn. Press.
 MOYLE, JOHN B. and MOYLE, EVELYN W. 1977. Northland Wild Flowers. Minneapolis, U. of Minn.