The Phytoplankton of the J. W. Frisz Memorial Lagoon, Shades State Park, Indiana

William A. Daily

Jack McCormick

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The Butler University Botanical Studies journal was published by the Botany Department of Butler University, Indianapolis, Indiana, from 1929 to 1964. The scientific journal featured original papers primarily on plant ecology, taxonomy, and microbiology.

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Butler University
Botanical Studies
(1929-1964)

Edited by

Ray C. Friesner
The *Butler University Botanical Studies* journal was published by the Botany Department of Butler University, Indianapolis, Indiana, from 1929 to 1964. The scientific journal featured original papers primarily on plant ecology, taxonomy, and microbiology. The papers contain valuable historical studies, especially floristic surveys that document Indiana’s vegetation in past decades. Authors were Butler faculty, current and former master’s degree students and undergraduates, and other Indiana botanists. The journal was started by Stanley Cain, noted conservation biologist, and edited through most of its years of production by Ray C. Friesner, Butler’s first botanist and founder of the department in 1919. The journal was distributed to learned societies and libraries through exchange.

During the years of the journal’s publication, the Butler University Botany Department had an active program of research and student training. 201 bachelor’s degrees and 75 master’s degrees in Botany were conferred during this period. Thirty-five of these graduates went on to earn doctorates at other institutions.

The Botany Department attracted many notable faculty members and students. Distinguished faculty, in addition to Cain and Friesner, included John E. Potzger, a forest ecologist and palynologist, Willard Nelson Clute, co-founder of the American Fern Society, Marion T. Hall, former director of the Morton Arboretum, C. Mervin Palmer, Rex Webster, and John Pelton. Some of the former undergraduate and master’s students who made active contributions to the fields of botany and ecology include Dwight. W. Billings, Fay Kenoyer Daily, William A. Daily, Rexford Daubenmire, Francis Hueber, Frank McCormick, Scott McCoy, Robert Petty, Potzger, Helene Starcs, and Theodore Sperry. Cain, Daubenmire, Potzger, and Billings served as Presidents of the Ecological Society of America.

Requests for use of materials, especially figures and tables for use in ecology text books, from the *Butler University Botanical Studies* continue to be granted. For more information, visit www.butler.edu/herbarium.
THE PHYTOPLANKTON OF THE J. W. FRISZ MEMORIAL LAGOON, SHADES STATE PARK, INDIANA

By WILLIAM A. DAILY AND JACK McCORMICK

Plankton net collections were made from the J. W. Frisz Memorial Lagoon in the Shades State Park, Montgomery County, at various intervals of time from June 12, 1951 until April 19, 1952. Most of the collections were made by Jack McCormick, several by Jay D. Gilliland of Waveland, Indiana, and a few by W. A. Daily.

The thirty-seven year old artificial lagoon has an area of approximately three acres and a maximum depth of eighteen feet. It has been well stocked with game fish, but higher aquatic plants are scarce.

From a total of sixty collections, thirteen genera and thirteen species representing five classes of the algae have been found.

When a range of time is given with a species, it was collected daily to at least once a week during that time. Less frequent occurrence is indicated by the date of collection.

**MYXOPHYCEAE**

*Diplocystis aeruginosa* (Kütz.) Trevis.
- July 11 to July 30, Aug. 16 to Sept. 1, Sept. 9, Sept. 29, and Oct. 6.

*Anabaena circinalis* (Kütz.) Rabenh. ex Born. & Flah.
- July 1 to July 30, Aug. 16 to Aug. 23.

*Aphanizomenon flos-aquae* (L.) Rabenh. ex Born. & Flah.
- Sept. 1, Sept. 29, Oct. 6 to Oct. 20.

**CHLOROPHYCEAE**

*Pandorina morum* Bory
- June 25 to July 30, Aug. 18 to Aug. 24, Sept. 29.

*Sphaerocystis Schroeteri* Chodat
- April 19, 1952.

**BACILLARIOPHYCEAE**

*Melosira granulata* var. *angustissima* Müller

* Present address: Department of Botany, Rutgers University, New Brunswick, New Jersey.
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Identified by Dr. Ruth Patrick.
July 14 to July 30, Aug. 16 to Sept. 1, Sept. 9, Sept. 29, Oct. 6 to
Oct. 20.

Symedra ulna var. Chaseana Thomas
Identified by Dr. Ruth Patrick.
July 1, July 3, July 14; Aug. 16 to Sept. 1; Sept. 9; Sept. 29;
Oct. 6 to Oct. 20; Nov. 17; and Apr. 19, 1952.

DINOPHYCEAE

Gonyaulax palustris (Lemm.) Schiller
Identified tentatively by Dr. James B. Lackey.
June 12 to July 30; Aug. 16 to Sept. 1; Sept. 9; Sept. 29; Oct. 6
to Oct. 20; Nov. 5; Nov. 17; Apr. 19, 1952.

Glenodinium quadridentes (Stein) Schiller
July 11, July 21 to July 24, Aug. 16 to Aug. 25, Sept. 29, Sept. 6
to Oct. 20.

Gymnodinium neglectum (Schilling) Lindem.
Identified tentatively by Dr. James B. Lackey.
July 21.

Ceratium Hirundinella (O. F. Müller) Schrank.
June 12 to July 30; Oct. 6 to Oct. 20; Nov. 5, Nov. 17; and
Apr. 19, 1952.

CHRYSOPHYCEAE

Mallomonas alpina Pascher and Ruttner
April 19, 1952.

Dinobryon divergens Imbief
June 14 to June 21; Dec. 8; and Apr. 19, 1952.

All of the collections are to be found on file in the Butler Uni­
versity Herbarium and the Cryptogamic Herbarium of the Chicago
Natural History Museum.

We wish to acknowledge the aid and suggestions from Mrs. Fay
K. Daily and Dr. Francis Drouet.

The Herbarium
Department of Botany
Butler University