

# Welcome to the Walt Dineen Society

A forum for communicating about South Florida Ecosystems

### Who is Walt Dineen?

J. "Walt" Dineen (1937-1990) was, for close to three decades, a highly respected biologist/ecologist in South Florida. He was Everglades Project Leader for the Florida Game and Fresh Water Fish Commission, and Director of Environmental Sciences at the South Florida Water Management District. Walt was one of the first to develop a broad regional perspective for the Everglades ecosystem, and to use that understanding to influence and improve management practices. Perhaps his most valuable contribution to the Everglades was his strong, personal demonstration of the importance of having well-informed scientists participate in the management and policy debates. For his early role in this process, we honor his name.

### Mission

The Walt Dineen Society is an informal, non-affiliated forum, dedicated to the task of substantially improving the communication of technical information on the ecosystems of South Florida, among the natural, physical, and social scientists and the management and policy leaders who work in this region. The Society considers that frequent exchanges of research results, and multi-disciplinary discussions designed to integrate new information with the old, are essential steps leading to improved understandings of the natural components and ecological processes of the South Florida systems. It is these intellectual processes that will assure that our understanding of both the natural and managed systems continue to mature (i.e., "the whole [of our understanding] is greater than the sum of its parts"). By supporting a communications process that is organized from the perspective of systems, in contrast to an issues or project-driven perspective, we believe that science will be in the strongest position to make substantial contributions to the important management and policy questions raised by the restoration programs.

### Walt Dineen Society Conferences

To achieve these goals, the Society sponsors conferences pertaining to the ecosystems of South Florida. The main priority of these conference is to encourage everyone who is conducting studies in the natural and physical sciences in South Florida to report on their on-going and completed work. These conferences differ from other technical conferences in the region in that:

1 they are systems-focused;

2 we encourage participation by all researchers and students of the natural systems of South Florida; and

3 the conference is organized to maximize the opportunities for the integration of new information from a broad array of disciplines.

For more information about upcoming or current conferences, please refer to our <u>Conference Page</u>. Program information and abstracts from the first Walt Dineen Conference are available at the <u>Conference Archive</u>.

### For further Information

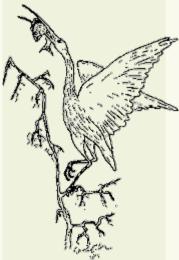
To learn more about the Walt Dineen Society or Conference, contact: John Ogden South Florida Water Management District 3301 Gun Club Rd. West Palm Beach, FL 33416 jogden@sfwmd.gov

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# FIRST CONFERENCE

May 22-24, 1997

1997 Conference Program

Index to authors from the 1997 Conference

For More Information

Please direct any questions concerning the Walt Dineen Society or Conference to: Dan Childers [Phone: 305/ 348-3101 FAX: 305/ 348-4096]

For general information about the Society, please visit the <u>Dineen Walt Dineen</u> <u>Home Page</u>.

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## Walt Dineen Society Annual Conference '97

Guide to Sessions

Thursday, May 22, 1997		
13:00 - 14:30	Session I: Upland Plants	
15:00 - 16:15	Session II: Environmental Management	
17:00 - 19:30	Session III: Posters	
Friday, May 23,	1997	
9:00 - 10:15	Session IV: Wetlands	
10:45 - 11:45	Session IV: Wetlands - cont.	
12:45 - 14:15	Session V: Bird Studies	
15:00 - 16:30	Session VI: Bird & Other Animal Studies	
Saturday, May 24, 1997		
9:00 - 10:15	Session VII: Marine Ecology	
10:45 -12:00	Session VII: Marine Ecology - cont.	
Complete Conference Program [Adobe PDF; 550K] Walt Dineen Society		

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	Daily	Walt Dineen Society Annual Conference '97 Daily Schedule of Sessions - Thursday, May 22				
1	TIME			D STUDIES		
A.C.	13:00- 13:15	AUTHOR(S) Mealey et al.	<i>ABSTRACT</i> <u>97501</u>	Serum chemistry analysis of bald eagle and osprey nestlings in Florida Bay, Everglades National Park		
© 1997 Walt Dineen Society	13:15- 13:30	Gawlik	<u>97502</u>	A test of environmental factors constraining the use of foraging sites by wading birds (Ciconiiformes) in the Everglades		
<u>Conferences</u> <u>Programs</u>	13:45 - 14:00	Frederick	<u>97503</u>	Measuring avian reproduction on an ecosystem scale: reproductive success measures are poor predictors of annual productivity of Everglades wading birds		
Index to Authors	14:00 - 14:15	Bouton et al.	<u>97504</u>	Effects of chronic, low concentrations of dietary		
Walt Dineen Home	14:15 - 14:30	Salatas and Frederick	<u>97505</u>	Energetic requirements of nestling wading birds		

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Walt Dineen Society Annual Conference '97

Session V: Bird Studies

Abstract #: 97502

### A TEST OF ENVIRONMENTAL FACTORS CONSTRAINING THE USE OF FORAGING SITES BY WADING BIRDS (CICONIIFORMES) IN THE EVERGLADES

Gawlik, Dale E.

Everglades Systems Research Division, South Florida Water Management District, West Palm Beach, FL

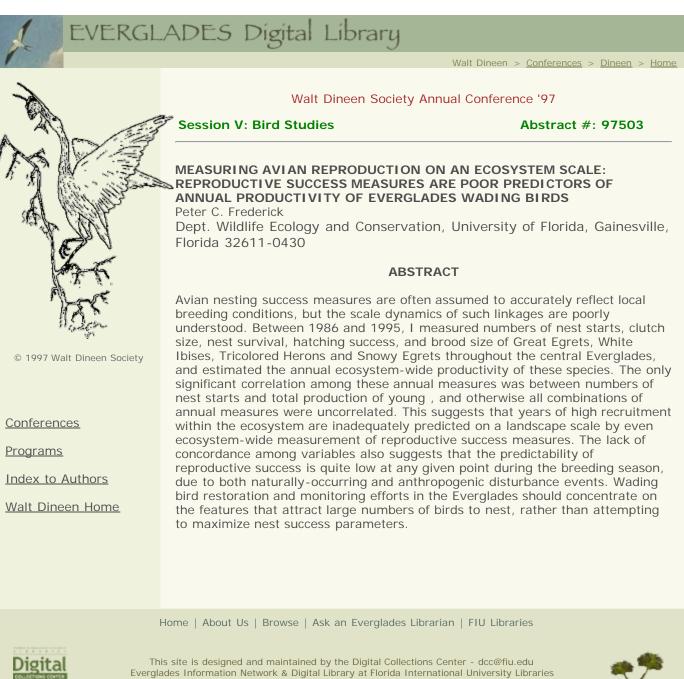
### ABSTRACT

It is reported that food availability (i.e., abundance and vulnerability to capture) is the single most important factor limiting populations of wading birds in the Everglades. Constraints on the acquisition of food by wading birds are therefore the primary barriers to restoring sustainable populations to this degraded ecosystem. I manipulated two potential constraints (prey abundance and water depth) on the use of foraging sites to test the hypotheses that each component limits foraging-site use by free-ranging wading birds. I conducted the experiment in 12 0.2-ha ponds using water depth treatments of 10 cm, 19 cm, and 28 cm, and fish (Notemigonus crysoleucas) density treatments of 3 fish/m2 and 10 fish/m2. The temporal dynamics of site use by birds indicated species-specific differences in the ability to find food patches as well as to exploit a wide range of water depths. For example, white ibis (Eudocimus albus) and wood storks (Mycteria americana) found food patches quickly but did not utilize patches at a wide range of depths. In contrast, great egrets (Casmerodius albus) increased in abundance more slowly but occupied the entire range of depth treatments. Water depth affected the use of sites by 6 of the 8 species examined whereas fish density affected only the white-plumage social-feeding species. The degree to which a species was limited by either prey abundance or water depth was a function of both their morphological characteristics and behavioral plasticity. These results suggest that foraging opportunities in the Everglades are most limiting for white ibis, wood storks, snowy egrets (Egretta tricolor) and tricolored herons.

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Walt Dineen Society Annual Conference '97

#### Session V: Bird Studies

Abstract #: 97505

**ENERGETIC REQUIREMENTS OF NESTLING WADING BIRDS** Johanna Salatas and Peter Frederick University of Florida, Department of Wildlife Ecology&Conservation

Gainesville, FL 32611-0430

#### ABSTRACT

Due to extensive modifications of Everglades hydrology, the number of nesting attempts of all species of wading birds has declined by over 90%. Food availability may be the single most important factor that limits the distribution and nesting success of wading birds. Modeling projects designed to guide efforts to restore productive wading bird populations in the Everglades require accurate estimations of nestling food requirements. To date, the energetics of nestling wading birds remains poorly documented, simply because the logistics of measuring food intake have been difficult to obtain in the field. We have employed the labeled water technique in order to determine food intake in freeranging Snowy Egret (Egretta thula) nestlings. After injecting nestlings with tritiated water and extracting blood samples in 5-d intervals, the labeled water technique, which is efficient and 95% accurate, allows us to calculate the water turnover rate. Because the water content of wading bird prey items in the Everglades is well known, the water turnover rate can be used to estimate prey consumption in nestlings. During the 1996 breeding season, we collected data from three sites in Water Conservation Areas 3A and 3B. Our results show that food intake can be measured in Snowy Egret chicks and the data imply that geographic differences do not seem to account for differences in the food amount delivered to chicks. Food amount strongly influences chick mass, independent of chick age and hatch order. Our results indicate that food amount is critical to the residual mass and possibly the fledgling condition of ciconiiform chicks which could influence post-fledging survival. We anticipate that these relationships will become better developed and more robustly tested during the 1997 breeding season.

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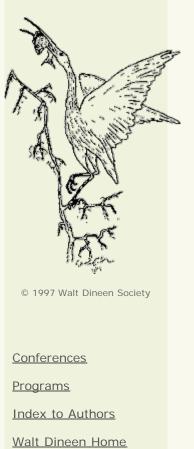
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