

**ABUNDANCE OF ZOOPLANKTON AND ITS CORRELATION TO THE
PHYSICO-CHEMICAL PARAMETERS OF THE DLSU-DASMARIÑAS
LAKE**

**An Undergraduate Research
Presented to
The Faculty of College of Arts and Sciences
De La Salle University – Dasmariñas**

The seal of De La Salle University - Dasmariñas is a circular emblem with a scalloped border. It features a central shield with a red triangle, a white star, and an open book. The shield is flanked by green laurel branches. The outer ring of the seal contains the text "AKLATANG EMILIO AGUIAR" at the top, "RESOURCE CENTER" on the right, and "De La Salle University - Dasmariñas • Since 1977 • Dasmariñas, Cavite, Philippines" at the bottom.

**In Partial Fulfillment
of the Requirement for the Degree of
Bachelor of Science in Biology
(with concentration in Human Biology)**

**ABAD, VANESSA ANGELINE L.
RICALDE, CHARISSE Q.**

February 2009

TABLE OF CONTENTS

	Page
Abstract.....	iv
Acknowledgement.....	v
Chapter 1.0	
Introduction.....	
1.1 Background of the Study.....	1
1.2 Statement of the Problem.....	2
1.3 Scope and Limitation.....	3
1.4 Significance of the Studies.....	3
1.5 Definition of Terms.....	4
Chapter 2.0 Review of Literature.....	
2.1 Conceptual Literature.....	7
2.2 ...Related Studies.....	17
Chapter 3.0 Methodology.....	
3.1 Research Design.....	21
3.2 Research Setting.....	21
3.3 Research Procedure.....	21
3.4 Collection of Sample.....	21
3.5 Measurement of Physico-chemical Parameters.....	22
3.6 Preservation.....	24

3.7 Counting and Identification.....	24
Chapter 4.0 Results and Discussion.....	
4.1 Results.....	25
4.2 Discussions.....	34
Chapter 5.0 Conclusion and Recommendations.....	
5.1 Conclusions.....	37
5.2 Recommendations.....	38
Literature Cited.....	39
Appendices.....	
A. Map of DLSU-D Lake.....	41
B. Location of four sampling stations in DLSU-D Lake.....	42
C. Identification key of Zooplankton.....	43
D. Statistical Tool.....	46
E. Classification of Zooplankton species collected in DLSU-D Lake	48
F. Correlation of Physico-chemical parameters to the abundance of zooplankton.....	54
G. Certification of the species from National Museum.....	59
H. Gantt Chart.....	60
I. Budgetary Requirements.....	63
Vitae.....	64

ABSTRACT

This descriptive study in DLSU-Dasmarinas Lake in Dasmarinas, Cavite determined the abundance of zooplankton species during the collection in the months of July and August 2008 at four, (4) different stations.

Horizontal and vertical towing procedure were performed during the collection of zooplankton species. The physico-chemical parameters were measured such as water temperature, pH, total dissolved solids, dissolved oxygen, salinity, nitrates and phosphates. Pearson Product-Moment Correlation was applied in the determination of the correlation between the relative abundance and physico-chemical parameters.

The *Limnocalanus macrurus* of the family Ergasilidae was found to be most abundant zooplankton in the lake.