

Thesis/Dissertation Process: From Proposal to Defense.

The Graduate School

University of Rhode Island

THESIS/DISSERTATION PROCESS: FROM PROPOSAL TO DEFENSE

CONTENTS

Introduction.....	3
Thesis Proposal.....	4
Purpose.....	4
Electronic Submission.....	4
Format.....	4
Submission.....	5
Contents.....	5
Special Approvals.....	7
Revised Proposals.....	7
Preparation of Thesis.....	7
Standard and Manuscript Format.....	7
Standard Format.....	7
Manuscript Format.....	8
Thesis Format.....	9
Physical Specifications.....	9
Order of Elements.....	10
Description of Elements.....	10
Summary of Required Documents.....	14
Additional Documents for Dissertations.....	14
Appendix 1: Use of Human Subjects for Research.....	15
Appendix 2: Use of Vertebrate Animals for Research.....	16
Appendix 3: Sample Pages.....	17

INTRODUCTION

This is a description of the steps required by the URI Graduate School for the preparation and approval of a thesis or dissertation. The entire process is covered, from the thesis proposal to the defense and publication of the thesis. The appendices contain online resources, as well as sample pages and forms.

If you have any other questions, please contact the Graduate School's main office at 874-2262. For convenience, the document will focus on the thesis format, except when special conditions applying to a dissertation are described.

THESIS PROPOSAL

PURPOSE

A thesis proposal states a problem to be investigated and describes how the research will be performed and reported. An approved thesis proposal, documents an agreement between the student, the academic department, and the graduate school regarding the contents of a satisfactory thesis or dissertation. Approval signifies that it meets the standards of the University of Rhode Island for the desired degree. The preparation and writing of the thesis are of utmost importance and must comply with the agreed-upon research. Although the student is expected to seek guidance in the choice of topic and the method of solving the problem involved, responsibility for the proposal lies with the student who will, as much as possible, work independently and demonstrate the ability to plan and outline an acceptable research project. Adherence to the guidelines given here should assure the student that all information necessary for the satisfactory evaluation of the plans for master's or doctoral research will be included in the proposal.

ELECTRONIC SUBMISSION

Beginning with the Spring semester, 2011, all theses and dissertations will be submitted online, and an accompanying hard copy will be submitted to the graduate school. The uploaded documents must be in pdf format, with fonts attached to the file. This way, the document will be unambiguously represented by the uploaded file. The submission process is initiated on the web page <http://www.etdadmin.com/uri>. The electronic and hard copies will be identical, except for the Approval Pages. The difference will be described in the section "Order of Elements", under the heading "Approval Page".

FORMAT

The thesis proposal should present the required information concisely and clearly. The ability to describe concisely a research problem and methodology is one of the skills that the proposal process is designed to develop. Therefore, all thesis proposals are limited in length to the signature cover-sheet plus 15 or fewer double-spaced, single-sided, numbered pages in a font size no smaller than 12 point. Proposals longer than this will not be accepted, however, appendices and references are not included in the 15-page limit, and must be numbered separately, using lower-case Roman numerals. Proposals will also be returned for revision if they do not contain the appropriate sections described in the Contents section of this Statement on Thesis/Dissertation Proposals. Sufficient copies of the proposal must be provided to permit distribution to the Graduate School, Institutional Review Board or Institutional Animal Care and Use Committee if required (see Sec. III), department, major professor, thesis or doctoral committee, and the student.

SUBMISSION

Thesis proposals should be submitted before substantial research has been completed. Typically, it should be submitted before or during the first semester in which the student registers for research credits. In all cases, however, the proposal must be submitted at least one semester before the semester in which the thesis itself is to be submitted and defended. All copies of the thesis proposal must be signed by the members of the student's thesis or doctoral committee, who thereby approve the proposal for forwarding by the student's major professor via the department chairperson and/or program director to the Graduate School. The Dean or Associate Dean of the Graduate School is charged with responsibility for review and approval or rejection of all proposals. Proposals that do not meet the standard of the Graduate School will be returned to the student for revision and resubmission. Approved proposals are returned to the department for distribution, with the original retained in the student's file at the Graduate School.

CONTENTS

Thesis Proposals shall contain the following sections, presented in the order shown:

A. Title of the Study

This is the title as the student conceives it at the time the proposal is submitted. It should be no more than 100 characters in length. As the research develops, minor rephrasings of the title may prove better suited to the work. In such cases, the most satisfactory one will be used for the thesis, but in no case will a title that deviates substantially from the one approved in the original proposal be approved unless a revised proposal with the new title has already been approved. Any title used must be consistent with the contents and subject of the thesis. **At that time a short title of 40 characters or less must be submitted.**

B. Statement of the Problem

Limit the statement, if possible, to two or three sentences, and note in precise language exactly what is to be investigated. To amplify the statement, it is usually desirable to list:

- The scope or limitations of the problem;
- Either one or more hypotheses the research seeks to test or the objectives expected as a result of the study.

Major assumptions that underlie both the study as a whole and the methodology to be followed should be indicated.

C. Justification for and Significance of the Study

This section of the proposal includes:

- A brief statement of the reason for the selection of the problem;
- The relation of the principal literature to the proposal;
- An explanation of the study's importance to the advancement of knowledge and its significance to the student.

The problem selected should be substantial enough to constitute a good example of a report of a scholarly investigation. Completion of a project or several unrelated projects does not satisfy this requirement. At the PhD level the work should constitute a significant increase in the pool of knowledge.

D. Resources Required

List the material and labor resources involved. Also list the references and literature cited in the research.

E. Literature Cited

SPECIAL APPROVALS

Research Involving Human Subjects, including the use of questionnaires to collect data, must be pre-approved by the University's Institutional Review Board (IRB) to insure it meets University and Federal guidelines. See Appendix 1 for a description of this process.

Research Involving Vertebrate Animals must be reviewed and pre-approved by the Institutional Animal Care and Use Committee (IACUC). See Appendix 2 for a description of this process. These approvals must be obtained during the thesis proposal process, and must be obtained prior to submission to the Graduate School.

REVISED PROPOSALS

If, as the research proceeds, a significant change in subject or methodology becomes necessary, a revised proposal should be submitted. Sometimes an abbreviated format can be used for such changes. The student or major professor should contact the Graduate School for assistance in such cases.

PREPARATION OF THESIS

STANDARD AND MANUSCRIPT FORMAT

The thesis may be in either of two general formats: Standard or Manuscript.

STANDARD FORMAT

If a thesis is not being prepared for publication in a specific journal, then the standard format should be used. The work will contain a single theme which may be organized into chapters and which **must** include a bibliography at the end that includes all the literature consulted in the work. The use of appendices is discouraged in the standard format except when it is necessary to explain essential elements in the main body of the thesis or dissertation. Examples would be:

The student would provide equations in the main body, but place a lengthy digital computer program in an appendix.

The student might describe an instrument's use in the main body but place manufacturer's drawings and specifications of the instrument in an appendix.

The student may give the primary tabulated results in the main body, but relegate extensive tables of raw preliminary data to an appendix.

Appendices appear at the end of the text, before the Bibliography. A Bibliography must also be provided which contains **ALL** the literature used for the entire work. The Bibliography must have complete citations to all works used; no abbreviations are allowed.

MANUSCRIPT FORMAT

Manuscript format should be used when a thesis is being prepared for publication, or if it is already under review or if it has been published. A thesis in manuscript format contains one or more themes which may be organized into chapters (or manuscripts) which when combined constitute the entire work.

The use of chapter headings is preferred. The manuscript(s) should avoid extreme brevity and be understandable, even if this necessitates some condensing of the work afterward for submission to a scholarly journal. Although the information and material in a manuscript(s) may be identical to the material submitted to or published in a journal, the examining committee may require changes. A thesis or dissertation using the Manuscript format often contains appropriate appendices needed for detailed and ancillary information required by the University, but not usually presented in a published paper.

Each manuscript should be preceded by a page describing its publication status, co-authors, and the intended journal. Two examples are given Appendix 3. This page will be listed in the Table of Contents as the beginning of that manuscript. Each manuscript should also contain its own Abstract, Preface, and References, as they appear in the version already published, or to be submitted for publication. A Bibliography containing all the literature contributing to the entire work may be added at the end, but it is not required by the Graduate School.

The recommended organization for the manuscript format is as follows:

- Title Page (Not numbered)
- Approval Page (Counted but not numbered)
- Abstract (For the entire thesis or dissertation, counted but not numbered)
- Acknowledgement
- Dedication (optional)
- Preface
- Table of Contents
- List of Tables
- List of Figures
- Manuscript(s)
- Appendices (typical)
 - A. Introduction and review of the problem
 - B. Details of methods, instrumentation, techniques, etc.

- C. Speculative discussion
- D. Theoretical implications

The Preface should alert the reader to the manuscript format and contain other introductory remarks. It must indicate the publication status of the chapters. The Abstract should summarize the entire thesis, including manuscript(s) and appendices. Each manuscript should contain its own List of References or Literature Cited section.

Except for the text portion of a thesis written in the Manuscript form, the requirements and guidelines on thesis preparation as outlined in the Graduate School website shall govern.

The student and their major professor decide which of the two formats should be used. The major professor also supervises the preparation of the thesis. Regardless of style and format all theses must be prepared in accordance with accepted standards of academic integrity, including proper citation and attribution of all material which is not the original product of the writer.

THESIS FORMAT

Regardless of the format, a thesis must adhere to the following guidelines.

PHYSICAL SPECIFICATIONS

Font size	Must be at least 10 point. We recommend 12 point. Typeface of an unusual or large format is not allowed. The only exception to this requirement is the use of special symbols required for scientific or mathematical expression, figures, graphs, and charts. One font size must be used throughout the thesis/dissertation including titles, and headings.
Spacing	The entire thesis is double-spaced. However, figure text, captions, long quotations, and footnotes may be single-spaced. Reference and bibliographic entries may also be single-spaced within each citation, but must be double-spaced between each entry.
Sections/Chapters	All major sections, such as chapters, acknowledgements, appendices, etc. , begin on a new page.
Paper	8.5 x 11" white acid-free, 20-pound (or 24-pound) paper. Unbound. Only one side of the paper may be used. Off-white or colored paper is not allowed.
Margins	At least 1½" on left and 1" on all other sides. Margins may be greater than these specifications. We recommend the left margin be 1.7 inches (this is due to possible shifting of text during printing or copying). The entire thesis must follow these specifications.
Page Numbering	Must be consecutive throughout. Do not number the title page, approval page or abstract page(s). Preliminary page counting (only) begins with the first "Abstract" page being counted as ii. Actual pagination numbering begins with the first page after the abstract. Text begins with "1" (Arabic numeral). All pages except title page, approval page, and

abstract must be numbered. Additionally, all tables and figures must be numbered consecutively as they appear throughout the thesis.

Placement of Page Numbers All preliminary page numbers are placed at the bottom of the page, centered, ½" from the bottom. Numbers within the text may be placed in one of two locations. Whichever location within the text is chosen, the location must remain consistent throughout the document. If numbered at the top, numbers must be at least ½" from the top of the page and at least 1" from the right hand edge. If numbered at the bottom, at least ½" from bottom of page and centered. No dashes are allowed around page numbers.

Headings No running headings are allowed.

ORDER OF ELEMENTS

For a thesis in **Standard Format**, the elements must appear in the following order, and follow the indicated numbering scheme:

Preliminary material is numbered in lower case Roman numerals, starting with the Approval Page. However, the Approval Page and the Abstract do not have page numbers on them. The elements must appear in this order:

1. Blank Page
2. Title Page
3. Library Rights Statement (only in the "Original Copy")
4. Approval Page
5. Abstract
6. Acknowledgements (optional)
7. Dedication (optional)
8. Preface (optional)
9. Table of Contents
10. List of Tables
11. List of Figures

The main text is numbered in Arabic numerals starting with 1 on the first page of the text, and ending with the last page of the Bibliography. These elements must appear in this order:

1. Text
2. List of References (optional)
3. Appendices (optional)
4. Bibliography
5. Blank Page (not numbered)

DESCRIPTION OF ELEMENTS

Title

The Title Page must conform to the Title Page sample included in Appendix 3. It must be double spaced. No bold face or italic fonts are allowed. It should follow the basic page layout and spacing as the sample.

Approval Page

The Approval Page must conform to the Approval Sample Pages included in Appendix 3. It must be double spaced. No bold face or italic fonts are allowed. It should follow the basic page layout and spacing as the sample. One acid-free page with the original signatures of the official committee, plus the Dean of the Graduate School, is required for each thesis (this is known as the "Original Copy"). Check with Graduate School to determine who is officially designated to sign the Approval page. The Dean signs the Approval Page after the thesis is taken to the Graduate School. No extra signatures are allowed. You will need to provide a line for each core committee member (usually each thesis has 3 core committee members, plus the Dean of the Graduate School). No white-out is allowed on the Approval Page. The three other copies may be photocopied from the "Original Copy," although Copy 1 must be on acid-free paper.

The electronic and hard copies of this page will differ in that the hard copy will be signed by the committee members and the Dean of the Graduate School, while the electronic copy will have the typed names of the signatories, and no signatures.

Note: The date on your Title Page and Approval Page must be the year of your official graduation. (Graduation year is the year in which your diploma is conferred.)

Please be sure your Approval Page is executed properly! Errors on this page have caused serious problems in the past.

Abstract

Immediately following the approval sheet, each copy of the thesis must contain an abstract which will contain a definite statement of the problem involved in the thesis, a description of the methods used in the development of the thesis, and a summary of the results of the findings reported in the thesis.

Table of Contents

Wording in the Table of Contents must be exactly the same as the chapter or text headings. Page numbers must be accurate. All items following the Approval Page must be included in the Table of Contents.

Illustrative Material

All graphs, figures, charts, diagrams, computer printouts, photographs, and illustrations must be clear and legible. Clear permanent color or black and white reproductions are acceptable. Photographs should be permanently attached to acid-free paper. Computer-generated illustrations are acceptable if they are clear. **The illustrative pages must meet all margin requirements.** All illustrations must be located on the right-hand side page of the thesis.

Captions

Captions for illustrative materials (figures, tables, charts, graphs, photographs, drawings, etc...), may be placed on the illustration page.

Captions may also be placed on the page facing the illustration. If the caption for an illustration is placed on the page facing the illustration, the caption must be on the left-hand side page (the other side of the page will be blank). The page must be numbered consecutively following the format used throughout the text, centered (on the bottom) **or** in the upper **right** hand corner, according to the rules for the location of page numbers. The blank side is not numbered.

Oversized Materials

Oversize pages must be folded smaller than the regular 8½ X 11 sheet to avoid possible loss of data when bound. Fold in a minimum of ¼" from all outside margins.

Lists of Tables and/or Figures

Lists of Table and/or Figures (if used) follow the Table of Contents page. Page numbers (as they appear in the text) should be given for each table or figure.

List of References

A List of References is not required by all disciplines, but if used appear at the end of each chapter. This "List" is confined to those works mentioned in the chapter or manuscript in order of their appearance. It is located at the end of each chapter or manuscript. **Even if you use a "List of References" at the end of chapters or manuscripts, you MUST provide a complete Bibliography at the end of the thesis.**

Appendices

Appendices are not required by all disciplines, but if used appear at the end of the thesis text, before the Bibliography. Appendices are numbered consecutively as part of the text and are listed in the Table of Contents.

Bibliography

Every thesis in Standard Format must contain a Bibliography which lists all the sources used or consulted in writing the entire thesis and is placed at the very end of the work. The complete citations are arranged alphabetically by last name of the author. Individual citations are not numbered. No abbreviations in titles of published works will be accepted. The full title of a book, journal, website, proceedings, or any other published work must be ***italicized*** or underlined. Citations must follow standards set by the style manual that the student is using. The bibliography for URI theses is not broken into categories.

Web Page Citation

If a thesis contains citations to a web site, following the author and title attribution, the entry must also include the complete URL (Uniform Resource Locator) of the web site and **the date the web site was accessed.**

SUMMARY OF REQUIRED DOCUMENTS

The following documents are required by the Graduate School for Master's Theses:

Two hard copies of the thesis

They should be on acid-free paper. They will contain at least one Approval Page requiring only the Dean's signature. You may submit more than 1 signed Approval Page. The Dean will sign all of them. You should specify the disposition of the extra ones. The two copies should be in plain manila envelopes with a "Short Title Page" taped securely to the front of each envelope. The Short Title Page contains your thesis' short title (40 character strict maximum, including punctuation and spaces), with your name and your advisor's name. The format of this page isn't critical. The short title is used mostly for filing, but it should still be descriptive and "make sense".

In the past, the Graduate School forwarded two additional copies to the student's academic department. The student should now forward these copies directly to their department without Graduate School involvement.

Electronically submitted copy

A PDF version of the thesis or dissertation must be uploaded via the ProQuest web site <http://www.etdadmin.com/uri>, and be approved for upload by the URI administrator via that web site.

Library Rights Statement

Library Rights Statements are available in the dissertation and thesis templates. The final submission must include an original signed, dated, copy of the Library Rights Statement.

ADDITIONAL DOCUMENTS FOR DISSERTATIONS

Doctoral dissertations require the items described above, plus the following documents:

Commencement survey

The commencement survey is available online (<http://www.uri.edu/gsadmis/documents/commencementQuest.pdf>), and must be completed to prepare for the commencement ceremony in May. It solicits information which will be printed in the commencement program. You must complete it whether you plan to attend the ceremony or not.

Extra (possibly shortened) Copy of the Abstract

This extra copy is needed for microfilm and contains the student's name, and the advisor's name. PhD students whose abstract exceeds 350 words must rewrite the abstract to conform to a 350 words limit to facilitate microfilm. The original abstract may remain as written. The shortened version (copied on regular paper) is used only for microfilming.

Extra Copy of the Title Page

An extra copy of the title page (copied on regular paper) must be supplied for microfilming. Put this copy in the "Original Copy" envelope.

Survey of Earned Doctorates

This questionnaire is available at the Graduate School office.

APPENDIX 1: USE OF HUMAN SUBJECTS FOR RESEARCH

Research Involving Human Subjects, including the use of questionnaires to collect data, must also be approved by the University's Institutional Review Board (IRB) as meeting University and Federal guidelines. This pre-approval must be obtained before the research begins, during the thesis proposal process. In such cases, the box provided on the *Thesis/Dissertation Proposal Approval Sheet* should be checked. An *IRB Policies, Procedure and Forms* packet is available in hard copy at the **Research Office, 70 Lower College Road** on the Compliance Office web site at: <http://www.uri.edu/research/tro/irbmain.htm>. A condensed version of IRB policies and procedures is found in Appendix D of the *Graduate Student Manual*. The principal investigator and/or department chairperson shall make a preliminary determination of how the research involved will be reviewed (Exempt, Expedited, or Full Board Review.) After all committee and departmental signatures have been obtained, one (1) copy of the complete thesis or dissertation proposal with the signed approval sheet attached should be submitted to the Director of Compliance at the Research Office along with the appropriate number of copies of the proposal abstract (see IRB packet for details.) The proposal abstract should contain the following information:

- Completed IRB Proposal Abstract Cover Sheet from IRB packet
- Summary of Research Project including:
 - Subjects to be involved (describe fully, including how they will be recruited)
 - Nature of the subjects' participation;
- A statement concerning the diversity of the subjects or a reason for exemptions (see IRB packet for details);
- A signed Assurance Form from IRB packet
- Informed Consent (include all elements contained in sample Informed Consent Form in IRB packet.)
- Copies of any research tool to be utilized.

The IRB meets on the third (3rd) Thursday of each month. Materials must be submitted to the Director of Compliance at the Research Office two (2) weeks in advance of the desired review date. Following the IRB review the student will receive an *Action Report* stating the status of the research proposal, either "Approval Pending" or "Approved." "Approval Pending" requires submission of additional information before approval is granted. The additional information is reviewed by the IRB Chairperson and, if satisfactory, an Approved *Action Report* is issued. "Approved" indicates that the student may proceed with the research project. Approved projects are assigned a monitoring date on the *Action Report* (see Monitoring section of IRB packet). All investigators will receive a monitoring form in advance of that date. It must be completed and returned to the Research Office ten days before the designated date.

When the student receives the *Action Report* stating that the IRB has approved the research proposal, the **student may pick up the Thesis/Dissertation Proposal Approval Sheet, at the Research Office.** It is the student's responsibility to submit the approved *Thesis/Dissertation Proposal Approval Sheet* (one with original signatures and four copies) attached to five (5) copies of the approved research proposal to the Graduate School for the Vice-Provost's signature. The original copy, with the approval sheet signed by the Director of Compliance and the Vice-Provost, will be placed on file at the Graduate School. The other four copies will be returned to student's department for distribution.

APPENDIX 2: USE OF VERTEBRATE ANIMALS FOR RESEARCH

Research Involving Vertebrate Animals must be reviewed and approved by the Institutional Animal Care and Use Committee (IACUC). A letter of explanation and Protocol Review Abstract Form with the required format (hard copy and/or disk) is available at the Research Office, 70 Lower College Road or on the web at: <http://www.uri.edu/research/tro/irbmain.htm>. A condensed version of IACUC policies and procedures is found in Appendix E of the Graduate Student Manual. The student's research proposal must be submitted to the Director of Compliance at the Research Office for the IACUC review. In addition, the Public Health Service and the U.S. Department of Agriculture require an annual report of the status of each continuing project funded by the agency with respect to animal use protocols and the use of live animals in research and teaching. These reports must be submitted to the Director of Compliance for review by the IACUC.

The student's major professor and/or department chairperson is responsible for submitting the necessary materials under these procedures when the principal investigator is a student.

The committee's review process will include:

- Consideration of the animal models to be used (number and kind)
- Rationale for use of animals in the project
- Husbandry and health care of the animals
- Research protocols (especially animal experimental procedures)
- Pain relief during experimentation
- Special animal needs
- Potential biohazards. Prior approval from the Biohazard Committee is required before submission to IACUC.

The project director and the instructor have the responsibility to be knowledgeable about federal, state, local and University regulations governing the use of animals. A copy of these regulations is available at the Research Office Library. The IACUC meets on the fourth (4th) Monday of each month to review all protocols submitted.

Materials must be submitted to the Director of Compliance at the Research Office two (2) weeks in advance of the desired review date. All incomplete proposals will be returned to the principal investigator, instructor, or major

professor with recommendations regarding compliance with Federal and University policies and procedures. The materials submitted must include:

- One (1) copy of the approved thesis or dissertation proposal
- Twelve (12) copies of the *Protocol Review Abstract Form*

Following IACUC review the student will receive an *Action Report* stating the status of the research proposal, either "Approval Pending" or "Approved." "Approval Pending" requires submission of additional information before approval is granted. The additional information is reviewed by the Chairperson of IACUC and, if satisfactory, an Approved *Action Report* is issued. "Approved" indicates that the student may proceed with the research. When the student receives the *Action Report* stating that the IRB has approved the research proposal, the **student may pick up the Thesis/Dissertation Proposal Approval Sheet, at the Research Office.** It is the student's responsibility to submit the approved *Thesis/Dissertation Proposal Approval Sheet* (one with original signatures and four copies) attached to five (5) copies of the approved research proposal to the Graduate School for the Dean's signature. The original copy, with the approval sheet signed by the Director of Compliance and the Dean, will be placed on file at the Graduate School. The other four copies will be returned to student's department for distribution. Questions concerning submission of research proposals should be directed to the Research Office (401) 874-4328.

APPENDIX 3: SAMPLE PAGES

A sample of Title Pages, Approval Pages, and a Library Rights Statement follow. They can be found online at <http://www.uri.edu/gsadmis/formatting.html>. Note that slightly different wording will be used for dissertations and theses. Both versions appear online. Also, be sure your Approval Page has the appropriate number of lines.

Pages that follow are:

- Dissertation Title Page
- Thesis Library Rights Statement (thesis – replace "thesis" for dissertation)
- Thesis Approval Page (4 Signature Lines)
- Dissertation Title Page, Joint URI/RIC Program in Education
- Dissertation Approval Page, Joint URI/RIC Program in Education
- Manuscript Introduction Pages (2 versions)
- Checklist for Final Submissions

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**AN EXPERIMENTAL STUDY OF THE VIBRATION, NOISE,
AND DRAG OF A CYLINDER ROTATING IN WATER
AND CERTAIN POLYMER SOLUTIONS**

BY

JOHN CAMERON BRADY

**A DISSERTATION SUBMITTED IN PARTIAL FULFILLMENT OF THE
REQUIREMENTS FOR THE DEGREE OF**

DOCTOR OF PHILOSOPHY

IN

MECHANICAL ENGINEERING AND APPLIED MECHANICS

UNIVERSITY OF RHODE ISLAND

2003

Library Rights Statement

In presenting this **thesis** in partial fulfillment of the requirements for an advanced degree at the University of Rhode Island, I agree that the Library shall make it freely available for inspection. I further agree that permission for copying, as provided for by the Copyright Law of the United States (Title 17, U. S. Code), of the **thesis** for scholarly purposes may be granted by the Librarian. It is understood that any copying or publication of this **thesis** for financial gains shall not be allowed without my written permission.

I hereby (do/do not) grant permission to the University of Rhode Island Library to use my **thesis** for scholarly purposes.

Signature

Date

MASTER OF YOUR DEGREE THESIS
OF
YOUR NAME

APPROVED:

Thesis Committee:

Major Professor _____

DEAN OF THE GRADUATE SCHOOL

UNIVERSITY OF RHODE ISLAND
YOUR YEAR OF GRADUATION (e.g., 2007)

(INSERT TITLE)

By

(INSERT AUTHOR'S NAME)

A DISSERTATION SUBMITTED IN PARTIAL FULFILLMENT OF THE
REQUIREMENTS FOR THE DEGREE OF DOCTOR OF PHILOSOPHY

IN

EDUCATION

UNIVERSITY OF RHODE ISLAND

AND

RHODE ISLAND COLLEGE

(INSERT YEAR)

DOCTOR OF PHILOSOPHY DISSERTATION

OF

(INSERT AUTHOR'S NAME)

APPROVED:

Dissertation Committee

Major Professor

RIC:

Dean, Feinstein School of Education – RIC

URI:

Dean, The Graduate School - URI

MANUSCRIPT – I

Published in Rapid Communications in Mass Spectrometry, March 2008

**Development and Validation of an ICP-MS Method for Quantification of
Levothyroxine in Dissolution Studies**

Dimple Pabla, Fatemeh Akhlaghi, Aftab Ahmed, Hossein Zia

Biomedical and Pharmaceutical Sciences, University of Rhode Island, Kingston, RI, USA

Corresponding Author: Hossein Zia, Ph.D.

Biomedical and Pharmaceutical Sciences

University of Rhode Island

125, Fogarty Hall, 41 Lower College Rd.

Kingston, RI, 02881, USA

Phone: +1-401-874-5022

Email address: hzia@uri.edu

Chapter 1

**“Empirical Relationship between Strength and Geophysical Properties for
Weakly Cemented Formations”**

by

M.S. Ravi Sharma¹; Matt O Regan²; Christopher D.P. Baxter³; Kathryn Moran, P.E.⁴;
Hans Vaziri⁵; Raja Narayanasamy⁶

is submitted to Journal of Petroleum Science and Engineering

¹ PhD Candidate, Department of Ocean Engineering, The University of Rhode Island, Narragansett, RI 02882. Email: msravisharma@yahoo.com

² Post Doctoral Fellow, Graduate School of Oceanography, The University of Rhode Island, Narragansett, RI 02882. Email: oregan@gso.uri.edu

³ Associate Professor, Department of Ocean/Civil and Environmental Engineering, The University of Rhode Island, Narragansett, RI 02882. Email: baxter@oce.uri.edu

⁴ Professor, Department of Ocean Engineering and Graduate School of Oceanography, The University of Rhode Island, Narragansett, RI 02882. Email: kate.moran@uri.edu

⁵ Sand Management Senior Advisor, BP America Inc., 501 Westlake Park Boulevard, Room 12.116, Houston, TX 77079. Email: Hans.Vaziri@bp.com

⁶ BP Exploration Operating Company Limited, Chertsey Road, Sunbury-on-Thames, Middlesex, TW16 7LN, UK. Email: Raja.Narayanasamy@uk.bp.com

Checklist for Final Submissions

All Documents

- At least one signed Approval Page
- Signed Library Rights Statement
- Two hard copies with Short Title Page¹ taped to envelopes
- Uploaded PDF

Dissertations Only

- Survey of Earned Doctorates
 - Extra Title Page
 - Short Abstract²
- Commencement Questionnaire :
- Confirmed by email
 - Confirmed by hard copy

¹ The Short Title Page contains only a short title (40 character strict maximum, including spaces and punctuation), your name, and your advisor's name. The short title is used for filing. It should be descriptive and "make sense". The format of this page is not important.

² The Short Abstract must be 350 words or less. If your dissertation's Abstract is longer than this, you may have to write a shorter version in addition to the one used in the body of the dissertation. Include your name and your advisor's name. The format of these pages is unimportant.