Note: Please refer to the Graduate Division website for the full formatting manual and other details. The following slides only provide a summary and contain information specific to Winter 2021.
Agenda

- Graduate Division Advisors
- Writing Hub
- Appointments & Degree Filing Process
- Formatting Guidelines
- Permission Letters
- ProQuest
- Q&A
Graduate Division Advisors

Jessica Whittier, *Master’s Advisor (A-L)*

Kim McCusker, *Master’s Advisor (M-Z)*

Sara Miceli, *Professional Degree & Joint Doctoral Program Advisor*

Van Lee-Yamamoto, *Ph.D Advisor*
Get Writing Help from the Writing Hub!

- Open to enrolled graduate students
- **Free** one-on-one appointments with a graduate student writing consultant
  - 30-60 minute appointments, up to 2 appointments/week
  - Can work with any project, at any stage
  - Supportive, in-depth conversations about your writing
    - Actionable feedback on clarity, organization, coherence, etc.
    - Not available for format-checking, will focus on the writing
- **Plus:** Dissertation Writers Workshop, Grad Writing Room, Writing Retreats, Discussion Groups and more!
- Programs will be offered online until further notice!

Learn more: [WritingHub.ucsd.edu](https://WritingHub.ucsd.edu)
Setting up your Defense

- Work with your advisor, committee members, and graduate coordinator to set up your defense date. At this time, all defenses are expected to be conducted remotely but the following general rules still apply:
  - A committee chair/co-chair must always be present at a final examination/defense
  - A tenured outside member must always be present at a final examination/defense (doctoral committees only)
  - If a committee member (other than chair/co-chair or outside tenured) cannot make the main defense, you must present to them separately in advance of the exam date
  - Detailed information can be found on the Degree Completion page on our website
Setting up your Defense

- Always schedule your defense date around your chair/co-chair and the outside tenured faculty member.

- Work with your graduate coordinator well in advance of your defense date to make sure the committee members listed on your student record are correct and reconstitute your committee if needed.

- Work with your advisor and graduate coordinator to ensure everything is in order for your defense, including the logistics, scheduling on Zoom, etc.
Making Appointments

https://gradforms.ucsd.edu/calendar

- All appointments will be conducted through Zoom. Advisors will send out a Zoom link by the morning of your appointment time.
- Schedule your preliminary appointment once your defense has been scheduled. We will discuss the final document review (check-in by email) scheduling during your preliminary meeting.
- Preliminary appointments should be scheduled up to one month prior to your defense.
- If cancellations need to be made, do so 24hrs in advance.
- Contact us if you’re unable to log on so we can get you on our calendar.
- Last 2 weeks – reserved for final document reviews.
- Consider filing deadlines…Please don’t wait until the end of the quarter to try to schedule!
- Our calendar is only open 60 days in advance.
Important Deadlines

Winter 2021 Degree
- Friday, March 19, 2021

Spring 2021 Degree
- Friday, June 11, 2021

Note: The degree filing deadline is always the 11th Friday of each quarter.
Preliminary Appointment

- Upload your fully formatted draft to ProQuest prior to your appointment
  - In ProQuest, you don’t have to fill out all information to upload the draft for the preliminary appointment; create a submission, add your contact information, and upload your PDF. Other details can be filled out when you complete the submission process for the final document review (check-in by email)
- We review for edits (**Edits are common!**)
- We review academic history
- We will go through the check list of what paperwork is needed to file for graduation
Final Checklist

- Forms from your department/program (initiated on DocuSign)
  - Final Report Form (Combined Defense and Dissertation/Thesis approval)
    - Master’s students must pay a $25 thesis submission fee. This fee is not required for PhD students since it was paid during Advancement to Candidacy
    - Joint Doctoral students need the JDP #5 form and Signature Page
    - Will indicate whether a filing or readmission fee is required
    - Will indicate if re-advancement and fee is required (if more than 5 years has passed since Advancement to Candidacy, usually only applies to PhD students)
  - General petition form to waive residency requirement (if applicable)
Final Checklist

- Note: Any applicable fees (filing fee, re-admit fee, re-advancement fee, Master’s thesis submission fee) will be charged to your Triton Link Financial Account at a later date. You do not have to pay this fee prior to your final review.

Your action items:

- Work with your graduate coordinator to ensure they are aware of your defense date so that they can initiate the signing of your Final Report Form and any other required forms in DocuSign.
Final Checklist

- Submit to your Graduate Division Advisor:
  - Final Dissertation/Thesis submission for final review on ProQuest
  - Dissertation/Thesis Release Form (upload to ProQuest submission)
  - Co-author permission letters (if applicable, email them to your Graduate Division advisor in a merged PDF or zip file)
In Between Appointments

- Defend
- Complete any new edits requested by the committee. Keep in mind that minor formatting edits may *still* be necessary
- If you haven’t already done so, collect all co-author permission letters
- Check in with your graduate coordinator about the status of your Final Report or any other required forms in DocuSign if you haven’t received a copy
Final Document Review
(Check-in by email)

- A day prior to final document review – submit final version of your dissertation/thesis for review
- Final formatting revisions must be submitted and approved by the filing deadline
- Email your co-author permission letters to your Graduate Division Advisor and follow up on other graduation paperwork
- We’ll file your paperwork with the Registrar’s Office after the end of the quarter
The Manual

The BLUE Book

THE
GUIDE

http://grad.ucsd.edu/academics/preparing-to-graduate
General Specifications

- **Minimum Margins**
  - 1” on all sides, but can be set slightly larger

- **Font and Font Sizes**
  - Standard fonts are Arial, Times New Roman, Helvetica, etc.
  - May use 10pt, 11pt, or 12pt

- **Pagination**
  - All page numbers are centered at the bottom, 0.5” from the bottom edge
  - Roman numerals begin on signature page through preliminary pages, Arabic numerals begin in main body of text

- **Paragraphs**
  - All material in main body of text should be double spaced
  - All new paragraphs must be indented 0.5”
Preliminary Pages

- Title Page
- Copyright or Blank Page
- Signature Page
- Dedication/Epigraph
- Table of Contents
- List of Abbreviations (Symbols)
- List of Figures (Tables, Spectra, etc.)
- Acknowledgements (only if no co-authors and not published)
- Vita – optional for Masters students
- Abstract of the Dissertation/Thesis
UNIVERSITY OF CALIFORNIA SAN DIEGO

This is the Title of My Dissertation

A dissertation submitted in partial satisfaction of the
requirements for the degree Doctor of Philosophy/Doctor of Musical Arts/
Doctor of Education

in

My Degree Title

by

My Name as it is listed on UC San Diego Academic Records

Committee in charge:

Professor Eta Theta, Chair
Professor Gamma Delta, Co-Chair (if applicable)
Professor Lambda Kappa
Professor Iota Mu
Professor Epsilon Zeta

2018
SIGNATURE PAGE

Roman numeral page numbers begin on page iii

0.5" from bottom of the page
# Table of Contents

- Signature Page ................................................................. iii
- Dedication (Optional) ......................................................... iv
- Epigraph (Optional) ............................................................ v
- Table of Contents .............................................................. vi
- List of Abbreviations (Optional) .......................................... vii
- List of Symbols (Optional) .................................................. viii
- List of Supplemental Files (Optional, but required if uploaded with submission) ... ix
- List of Figures (Optional, but required if included in the text) .......... x
- List of Schemes (Optional, but required if included in the text) ........ xi
- List of Tables (Optional, but required if included in the text) ........... xii
- List of Graphs (Optional, but required if included in the text) ........ xiii
- Preface (Optional) ............................................................. xiv
- Acknowledgements (Optional, but required if any text is co-authored or published or being prepared for submission) ... xv
- Vita (Required for doctoral dissertations only) ........................... xvi
- Abstract of the Dissertation ................................................ xvii
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    - 1.1.2 ............................................................. 26
- Chapter 2 (Include chapter title if applicable) ...................... 31
- Appendix ................................................................. 157
- References .............................................................. 174
LIST OF FIGURES/TABLES/SCHEMES, ETC.

Max 4 lines in list(s), and numbering should be denoted by chapter or continuous.

LIST OF FIGURES (or TABLES, SCHEMA, GRAPHS)

Figure 1.1: caption goes here ........................................... 16
Figure 1.2: caption goes here ........................................... 18
Figure 2.1: caption goes here ........................................... 24
Figure 2.2: caption goes here ........................................... 25
Figure 3.1: caption goes here ........................................... 30
Figure 3.2: caption goes here ........................................... 33

NOTE: if captions are longer than 4 lines they must be abbreviated on the list to 4 or fewer lines. The word “Figure” (or “Table,” or “Graph”) must appear before each caption on the list and before each caption within the text.
ACKNOWLEDGEMENTS

Formal chapter acknowledgements must be made here and at the end of each respective chapter.

I would like to acknowledge Professor Eta Theta for his support as the chair of my committee. Through multiple drafts and many long nights, his guidance has proved to be invaluable.

I would also like to acknowledge the “Smith Clan” of lab 28, without whom my research would have no doubt taken five times as long. It is their support that helped me in an immeasurable way.

Chapter 2, in full, is a reprint of the material as it appears in Numerical Grid Generational in Computational Fluid Mechanics 2017. Smith, Laura; Smith, Jane D., Pineridge Press, 2016. The dissertation/thesis author was the primary investigator and author of this paper.

Chapter 3, in part, has been submitted for publication of the material as it may appear in Education Mechanics, 2017, Smith, Laura; Smith, Jane D., Trailor Press, 2017. The dissertation/thesis author was the primary investigator and author of this paper.

Chapter 5, in part is currently being prepared for submission for publication of the material. Smith, Laura; Smith, Jane D. The dissertation/thesis author was the primary investigator and author of this material.

Chapter 6 is coauthored with Smith, Jane D. and White, Sigmund. The dissertation/thesis author was the primary author of this chapter.
VITA

The minimum requirement is educational information

VITA

2006 Bachelor of Arts, University of California, Berkeley
2006-2011 U.S. Marines
2011-2012 Teaching Assistant, University of California San Diego
2013 Master of Science, University of California San Diego
2013-2017 Research Assistant, University of California San Diego
2018 Doctor of Philosophy, University of California San Diego

PUBLICATIONS

“Distribution of Control Points in a System for Analysis of Stress Distribution”

FIELDS OF STUDY

Major Field: Engineering
Studies in Applied Mathematics
Professors Alpha Beta and Gamma Delta
ABSTRACT OF THE DISSERTATION/THESIS

First page of the abstract only, special top margin of at least 2.5”

ABSTRACT OF THE DISSERTATION

Place Full Title of Doctoral Dissertation Here

by

Your Name as it is listed on UC San Diego Academic Records

Doctor of Philosophy/Doctor of Musical Arts/Doctor of Education in Degree Title

University of California San Diego, 2018

Professor Eta Theta, Chair
Professor Alpha Beta, Co-Chair

The Abstract begins here. The abstract is limited to 350 words for a doctoral dissertation. It should consist of a short statement of the problem, a brief explanation of the methods and procedures employed in generating the data, and a condensed summary of the findings of the study. The abstract may continue onto a second page if necessary. The text of the abstract must be double spaced.
Introduction and Beyond

CONSISTENCY

....is the key!
Chapter 1. Introduction

It is estimated that lighting accounts for 22% of the total US electrical energy use and 7% of the global primary energy expenditure. From the latest available data from the U.S. Department of Energy (DOE), it showed that more than 70% of electricity used for total lighting is for commercial and residential lighting with 85% of residential lighting using incandescent lights and fluorescent lamps, as shown in Figure 1.1 [1]. Since most of the energy used for the incandescent lamp is wasted as infrared radiation and mercury in the fluorescent lamps can cause environmental problems, there have been long efforts to improve the efficacy of the technology, as well as developing a more energy efficient light and environmental source to replace incandescent and fluorescent lighting [2].

The beginning of modern lighting technology is generally attributed to the invention of the incandescent lamp by Sir Thomas Edison in 1878 [3]. The color of light produced by a heated metal filament in an incandescent lamp appears close to that of the sun, to which the human eye has been adapted [4]. Objects illuminated under an incandescent light would appear to have a natural color. To determine the “quality” of a light source, one parameter called the color rendering index (CRI) is often used. This index, with a scale of 0 to 100, measures the ability of the light source to accurately display the color of an object compared to a standard illuminant [4]. The incandescent light has a high CRI of about 100, while low pressure sodium lamps have CRI of about 18 [4]. However, about 95% of the electricity used by a typical incandescent light bulb is wasted as heat and infrared radiation, which results in a low luminous efficiency of ~12 lumens per watt (lm/W) [4]. With a tungsten-halogen cycle, halogen incandescent lamps have longer filament lifetimes as the filament evaporation rate is reduced. This also allows the halogen lamps to be at full brightness for longer time and have a comparable CRI relative to the traditional incandescent lamps, resulting in more than twice the efficiency (~30 lm/W) [4]. Unlike
Figure and Table Captions

Table 2.1. Comparison of energy efficiency, luminescence (lumens/watt), lifetime, heat, and presence of mercury in common household light sources [5].

<table>
<thead>
<tr>
<th>Light Source</th>
<th>Energy Efficiency</th>
<th>Luminescence</th>
<th>Lifetime (Hours)</th>
<th>Heat</th>
<th>Mercury</th>
</tr>
</thead>
<tbody>
<tr>
<td>Incandescent</td>
<td>Very low</td>
<td>Low</td>
<td>1000</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Halogen</td>
<td>Low</td>
<td>60-100</td>
<td>2000-5000</td>
<td>Yes++</td>
<td>Yes++</td>
</tr>
<tr>
<td>Compact fluorescent</td>
<td>High</td>
<td>65-110</td>
<td>6000-10000</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>High intensity discharge</td>
<td>High</td>
<td>80-140</td>
<td>20000</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>LED</td>
<td>Very High</td>
<td>50000</td>
<td>50000</td>
<td>No</td>
<td>No</td>
</tr>
</tbody>
</table>

Figure 2.1. Color ranges of LEDs depending on the semiconductor component [5].
Acknowledgements/References

5.6. Conclusions

This is the first study comparing the crystallite and particle sizes and morphology with the respective photoluminescence emission intensity of two phosphor compositions prepared by five methods: Y$_2$O$_3$:Eu$^{3+}$ and LaPO$_4$:Ce$^{3+}$, Tb$^{3+}$ powders were prepared by combustion reaction, co-precipitation, hydrothermal, sol-gel, and spray pyrolysis synthesis methods. For Y$_2$O$_3$:Eu$^{3+}$, the sol-gel method showed the highest PL emission intensity compared to other methods having a crystallite size of 28 nm and an average particle size of 2.19 nm. The spray-pyrolyzed powders have the lowest intensity with a 13 nm crystallite size and an average particle size of 0.56 µm. For LaPO$_4$:Ce$^{3+}$, Tb$^{3+}$, the co-precipitation method has the highest PL emission intensity with 35 nm crystallite size and an agglomerated morphology. The spray-pyrolysis method produces the lowest intensity with a crystallite size of 14 nm and a spherical and un-agglomerated morphology.

This study shows that a large crystallite size along with nearly-spherical and agglomerated particles tend to exhibit the highest PL intensity. The results show in general increasing intensity as a function of increasing crystallite size, with the exception of combustion-synthesized Y$_2$O$_3$:Eu$^{3+}$ powders and co-precipitated LaPO$_4$:Ce$^{3+}$, Tb$^{3+}$ particles, which show high intensity with a relatively small crystallite size. The characteristics of producing high intensity with small crystallite size needs to be investigated further in detail. There was a slight increase in photo-luminescence emission intensity with increase in particle size.

5.6. Acknowledgements

This work was supported by the U.S. Department of Energy Grant, DE-EE0002003. Chapter 5, in full, is a reprint of the material as it will appear in Materials Characterization, Seung-kyo Lee, Jae Il Choi, Jinkyu Han, Yongguen Kim, Jon B. Talber, and Joanna McCormick. The dissertation author contributed the synthesis of the phosphors and characterization.

References


*Copy/pasted from prelim page

*No et al – list all authors, single space each entry, double space in between entries
Permission Letters

- Permission letters (cover letter from advisor/co-author letters) are required if you are using any of your own work in your dissertation or thesis that contains the following:
  - Published material
  - Material that has been submitted for publication
  - Material that is currently being prepared for submission for publication
  - Unpublished material that contains co-authors, even if there are no future plans to submit for publication

- This work must be acknowledged in your Acknowledgements section and at the end of each respective chapter
PERMISSION LETTER
FROM YOUR ADVISOR
(COVER LETTER)

James Antony, Dean
Graduate Division
UC San Diego

Dear Dean Antony:

We request permission for Laura Smith to use the following material in her doctoral dissertation/master’s thesis. Ms. Smith was the principal researcher/author on this paper.


~OR~

We request permission for Laura Smith to use material that has been accepted for publication. Ms. Smith was the principal researcher/author on this paper.

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Smith, Laura; Smith, Jane D.; White, Sigmund. Chapter 6, Title.

Chair of Committee

Student’s Name
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Smith, Laura; Smith, Jane D.; White, Sigmund. Chapter 6, Title.

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- Will be published on ProQuest and UC eScholarship

- Publishing Options
  - Traditional (no charge) vs. Open Access
    - This option pertains specifically to how your dissertation/thesis is released in the ProQuest database. Your work will always be open access on eScholarship
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  - Embargo: One year
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  - Your Advisor’s signature is required regardless of the publishing option
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- The submission process is free of charge unless you select any of the following optional payment items during final submission:
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    - ProQuest can only do this on your behalf if you are the sole author. If you have co-authors and want to register your copyright, you have to go through the Library of Congress directly on your own
    - You have copyright regardless, registering at the Library of Congress is just an extra level of protection
  - Select open access publishing for ProQuest (eScholarship is already open source)
  - Order personal copies

- Important!!!
  - Remember to submit your dissertation/thesis all the way through prior to your final document review time
  - Don’t worry, it’s not final until your paper is accepted so it won’t be published immediately after submission and ordered copies will not be printed at that point
Summary Timeline

- Make a preliminary appointment up to one month prior to your defense date. The final document review (check-in by email) will be discussed during your preliminary meeting.
- Work on dissertation or thesis draft so that it is formatted for your preliminary appointment.
- Collect co-author permission letters if necessary *(start early!)*
- Defend
- Upload and submit final version on ProQuest and work with your department and Graduate Division Advisor to submit all required paperwork.
Q & A
Note: Please refer to the Graduate Division website for the full formatting manual and other details. The previous slides only provide a summary and contain information specific to winter 2021.
We wish you great success in this final stage of completing your degree!