

# CGCS Agenda – May 11, 2018

- > Doctoral Recruitment Grant presentation:
  - Dr. Landers
  - Dr. Kim
  - Dr. Samaranayake
- > Admission/GRE requirements - reminder
- > Upcoming SLATE Storm
- > Graduate Faculty Council Awards
- > Graduate Faculty Election Update
- > Graduate Faculty Updates
- > Commencement Information
- > Reminders/Upcoming Events

# Doctoral Recruitment Grant

> Dr. Robert Landers

# **MAE Distinguished Undergraduate Research Fellowship**

## **Track II Proposal**

## **Outcomes**

1. Increase number of undergraduates matriculating into our PhD programs.
2. Increase number of undergraduates matriculating into outstanding PhD programs.

## **How Outcomes will be Measured**

We will count the number of students that pursue a PhD.

## **Program Structure**

- There are 5 fellows (must have a  $\text{GPA} \geq 3.5$ ).
- Each fellow receives \$6000 during the summer (12 weeks, 40 hours/week, \$12.5/hour).
- The Office of Graduate Studies provides \$1000, the department provides \$3000, and the faculty provide \$2000.
- The Office of Undergraduate Studies provides an OURE for the student to continue their research during the school year.
- Students can participate in a technical communications workshop and present a poster at the end of the summer.

# Results from 2017 Program (36 applicants)

In addition to the 5 fellows, 8 fellows were fully funded by faculty.

Student	Status
Nathan Lutes	Conducting undergraduate research this summer
Bret Curtis	Working on a joint Sandia/Missouri S&T project
Seth Cockram	Accepted MS position at WashU
Andrew Hinkle	Pursuing PhD at Missouri S&T
Andrew Hedlund	Considering Boeing and Navy Research Lab
Matt Klosterman	Accepted PhD position at UIUC
Michael Dvorak	Conducting undergraduate research this summer
Seth Lanius	Will work in industry
John Nganga*	Accepted PhD position at Notre Dame
Matthew York	Working at Sandia this summer
Lauren Tomanek*	Pursuing PhD at Missouri S&T
Zachary Young	Conducting undergraduate research this summer
Gunnip Mueller	Working an internship this summer

\* underrepresented student

**We had 66 applicants, 8 of which are underrepresented**

**The group has an average GPA of 3.82**

**We accepted 11 Fellows (average GPA of 3.96), six of which the Department and faculty are fully funding.**

**Faculty are fully funding an additional 16 students (average GPA of 3.86)**

**Three students are underrepresented**

# Doctoral Recruitment Grant

> Dr. Chang-Soo Kim

# **PhD Recruitment Grant (ECE Summer Internship Program)**

## **1<sup>st</sup> period (2017 summer):**

- Original plan
  - 10-week, hourly-rate summer internship program  
Expanding global recruiting sources with strong ECE programs
  - “Feeder schools”: US (particularly S&T), S.Korea, Russia, Turkey, Iran, etc.
  - Focus on helping Assistant Professors (hosts)
  - Matching fund (e.g. travel, paperwork) provided by hosting faculty



# **PhD Recruit Grant (ECE Summer Internship Program)**

- Progress
  - 8-week internship
  - 3 international internees (2 Bachelors, 1 Master): 1 applied/admitted (FS 2018), 1 scholarly publication
  - No success in S&T and other US institutions
  - 2 MOUs in progress (Dept level) with Turkish, S. Korean institutions

# Exemplary Technical Report

## APPENDIX

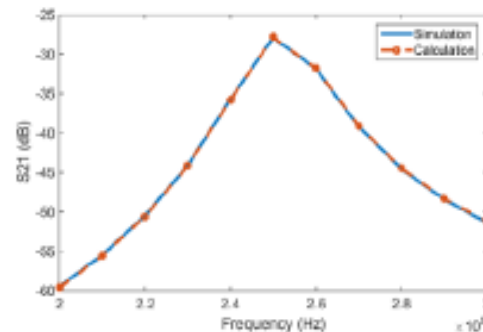
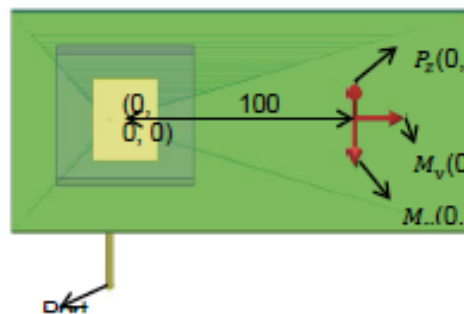
Student Name: Sangsu Lee

Current academic status: master

Affiliation: Ajou University, Suwon, Korea

Summary: He was involved in radio-frequency interference (RFI) project sponsored by Sony. RFI issues in wireless devices are critical for the RF sensitivity and it is difficult to analyze the RFI in real products. He developed an analytical formulation to understand the mechanism of noise coupling from an IC to an RF antenna by combining Lorentz reciprocity and dipole moment. He did a careful derivation and validate the formulation step by step through numerical simulations. He also wrote a technical paper based on his work and the paper has been submitted to *IEEE EMC symposium 2018*.

Outcome: Sangsu Lee, Y. Zhong, Q. Huang, T. Enomoto, S. Seto, K. Araki, J. Fan, and C. Hwang, "Analytical Intra-System EMI Model using Dipole Moments and Reciprocity" submitted to *IEEE EMC symposium 2018*.



# **PhD Recruit Grant (ECE Summer Internship Program)**

## **2<sup>nd</sup> period (2018 summer):**

- 1 S&T and 3 international interneers being recruited
- Short-term metrics of success: # of recruited PhDs (> 50%), # of MOU with feeder schools in Dept level (> 1)

# Doctoral Recruitment Grant

> Dr. V.A. Samaranayake

# Department of Mathematics & Statistics

## Doctoral Recruitment Grants Activities

# What was the Grant for?

- > Visit potential feeder schools – especially those who have not sent students before
- > Meeting with potential students in an informal setting
- > Provide potential students and their faculty advisors an overview of our program and its strengths

# Completed Activities

## Visited University of Missouri (October 2017)

- > Undergraduate Research Talk – *Introduction to the nonlinear Schrödinger equation*
- > Informal two-hour session with undergraduates over Pizza – *Discussion about their plans for graduate school and highlights of our graduate program*

# Completed Activities - Continued

Visited University of Illinois – Urbana Champaign  
(November 2018)

- > Undergraduate Research Talk - *Introduction to the nonlinear Schrödinger equation*
- > Informal two-hour session with undergraduates over Pizza – *Discussion about their plans for graduate school and highlights of our graduate program*



# Completed activities – Continued

## Visit to Fairmont State University, West Virginia (November 2017)

- > One hour presentation
- > Informal discussion with 25 students about the Math/Stat graduate program at Missouri S&T
- > Interested students contacted the graduate director of the department

# Completed Activities - Continued

## Visit to Marshall University, West Virginia (November 2017)

- > One hour presentation to students
- > Informal discussion with 20 students about the Math/Stat graduate program at Missouri S&T
- > Interested students contacted graduate director

# Completed Activities - Continued

## Visit to West Virginia University (November 2017)

- > One hour presentation to students
- > Informal discussion with 15 students and 6 faculty about the Math/Stat graduate program at Missouri S&T
- > Interested students contacted the director of graduate studies

# Completed activities - Continued

## Mathematical Association of America Regional Meeting & MCMC Student Competition – Springfield, MO (April 2018)

- > Set up booth to meet students after the mathematics contest
- > Discussed our graduate program with undergraduate student visitors to the booth
- > Visited other booths at the meeting and distributed information flyers about our graduate program

# Additional Activities

Planning meeting to organize a ST. Louis Section of the Math Alliance (January & February 2018)

- > One goal of the Math Alliance is to help partner schools attract graduate students
- > Math Alliance partners are: Washington University at St. Louis, SIU Edwardsville, University of Iowa, Saint Louis University



# Plans for the next Academic Year

- > Target small 4-year colleges that are known for high quality education
- > Visit selected schools and give presentations to undergraduate students and have an informal gathering with students over pizza
- > Invite select students to visit Missouri S&T

Thank You!



# Admission Requirements - Reminder

- > If any changes, please notify [grad@mst.edu](mailto:grad@mst.edu)
- > For consistency, changes will only be made during summer for the NEXT academic year. Changes must stay in place for the full academic year.
- > Changes will no longer be made in the middle of the academic year

Graduate Admission Requirements								
Valid for Fall 2019, Spring 2020, Summer 2020 Semesters								
Graduate Admission Requirements for								
MASTER'S								
	IELTS	TOEFL	GRE-V	GRE-Q	GRE V+Q	GRE A(W)	GMAT	Ugrd GPA
CURRENT								
Edits (if any)								
PhD								
	IELTS	TOEFL	GRE-V	GRE-Q	GRE V+Q	GRE A(W)	Ugrd GPA	MS GPA
CURRENT								
Edits (if any)								
When applicants ask for a time to decision (from the submission of a completed application), what time frame should we give them (in weeks)?								
_____								
Do you require S&T alumni applying for a graduate program to provide letters of recommendation?								
<input type="checkbox"/> YES <input type="checkbox"/> NO								
Do you waive the GRE for S&T alumni if they meet a GPA requirement?								
<input type="checkbox"/> YES <input type="checkbox"/> NO								
If yes, what is the GPA requirement? _____								
Please list any additional considerations for applicants.								
Due back to Office of Graduate Studies by July 13, 2018								



# Upcoming SLATE Storm

- > Tuesday, May 15, 2pm-3pm, Toomey 249
- > Topics covered will include:
  - Reporting
  - Queries
  - Mailings
  - Ideas/Requests from YOU for additional things you would like to see/use to meet your department's needs.

# Graduate Faculty Council Awards

- > The Graduate Faculty Council requested nominations for Outstanding Contributions to Graduate Studies and Graduate Staff Excellence.
- > The winner of the Graduate Staff Excellence Award went to **Tracy Zou** in Business and Information Technology
  - Honorable Mention :
    - > Tina Balch in Chemistry
    - > Dawn Davis in Computer Science
    - > Sharon Lauck in Geosciences and Geological and Petroleum Engineering
    - > Judy Russell in Mining and Nuclear Engineering
    - > Jeannie Werner in Civil, Architectural, and Environmental Engineering
- > The winner of the Outstanding Contributions to Graduate Studies Award went to **Dr. Wayne Huebner** in Material Science and Engineering
  - Honorable Mention:
    - > Dr. Kwame Awuah-Offei in Mining and Nuclear
    - > Dr. Yu-Hsien Chiu in Business and Information Technology
    - > Dr. Wei Jiang in Computer Science
    - > Dr. Robert Landers in Mechanical and Aerospace Engineering
    - > Dr. Kyle Perry in Mining and Nuclear Engineering
    - > Dr. Jeffrey Winiarz in Chemistry

# Graduate Faculty Election Update

The deadline to submit nominations for the officers of the Graduate Faculty for the next Academic year has been extended to **Tuesday, May 15**.

You can send nominations via email to Stephanie Lewis at [struckhoffs@mst.edu](mailto:struckhoffs@mst.edu).

After nominations have been collected, a link will be sent to the graduate faculty via email with an opportunity to vote for officers.



# Graduate Faculty Updates

- > The following changes were voted and approved at the April 30<sup>th</sup> Graduate Faculty Meeting:

## GPA Requirements for Graduate Students

In order to earn a graduate degree, all students must achieve a cumulative GPA of 3.0 or higher in all graduate work taken at Missouri S&T, as well as for all graduate courses listed on the program of study (Form 1 for master's students and Form 5 for doctoral students). This 3.0 GPA requirement does not apply to courses taken for undergraduate credit ~~\_\_, nor does it apply to courses taken so long ago that they cannot be counted toward a graduate degree.~~ No substitutions may be made on the program of study for courses in which the student has earned less than a B grade. All graduate students are encouraged to maintain at least a 3.0 cumulative GPA at all times, and certain departments may even require this minimum GPA. In cases where a graduate student repeats a course, both the original and repeat grades will be used in calculating the student's GPA, and both will appear on the student's transcript.

A graduate student who accumulates ten or more credit hours of C or F grades shall no longer be a candidate for ~~a graduate an-~~ advanced degree or certificate from Missouri S&T. This rule does not apply to courses taken for undergraduate credit, nor does it apply to courses taken ~~outside of the respective degree or certificate completion time limits so long ago that they cannot be counted toward a graduate degree.~~ This grade requirement limit is cumulative over all degree programs (M.S. plus Ph.D., M.S. plus a second M.S., etc.) and is not per degree program.



# Graduate Faculty Updates Cont.

- > Effective immediately:

- Form 1A and 5A

- > Revised programs that only include course changes will require signatures from the student and advisor(s) only

# Commencement Info

10:00AM

SATURDAY, MAY 12

Candidates should plan to arrive by 9 a.m.

**Undergraduate and graduate students in the following disciplines:**

- > Architectural Engineering
- > Applied and Environmental Biology
- > Biological Sciences
- > Ceramic Engineering
- > Chemical Engineering
- > Chemistry
- > Civil Engineering
- > Economics
- > Engineering Management
- > English
- > Environmental Engineering
- > Geological Engineering
- > Geology and Geophysics
- > Geotechnics
- > Industrial Organization Psychology
- > Materials Science and Engineering
- > Metallurgical Engineering
- > Petroleum Engineering
- > Physics
- > Psychology
- > Systems Engineering
- > Technical Communication

3:30PM

SATURDAY, MAY 12

*Candidates should plan to arrive by 2:30 p.m.*

**Undergraduate and graduate students in the following disciplines:**

- > Aerospace Engineering
- > Applied Mathematics
- > Business Administration
- > Business and Management Systems
- > Computer Engineering
- > Computer Science
- > Electrical Engineering
- > Explosives Engineering
- > History
- > Information Science and Technology
- > Manufacturing Engineering
- > Mathematics
- > Mechanical Engineering
- > Mining Engineering
- > Multidisciplinary Studies
- > Nuclear Engineering
- > Philosophy



# Reminders/Upcoming Events

- > **Writing Workshop: Punctuation**
  - Wed., May 16, 12-1pm  
208 Norwood  
Registration Required.
- > **Formatting Your Thesis/Dissertation**
  - Thurs., May 17, 11am-12pm  
Toomey 140
- > **Write-In**
  - Wed., May 23, 9am-12pm  
203 Library
- > **New Graduate Student Orientation**
  - Friday, August 17, 8:30am-3pm
    - > Hasselmann Alumni House
    - > \*Friday before classes begin\*
    - > Looking for faculty volunteers to speak about:
      - Acquiring funding
      - How to maximize and advisor/advisee relationship

**Thank you!**  
**See you this fall!**

