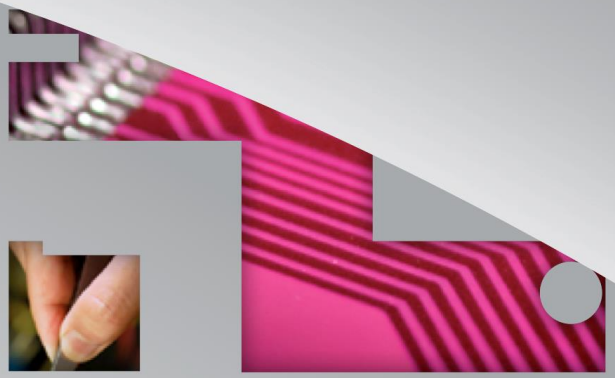
External Relations in The Department of Electrical & Computer Engineering

AMANDA STEIN, DIRECTOR
KARA STAMETS, COORDINATOR

SUMMER 2018



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SCHOOL OF ENGINEERING

External Relations Team

- Dr. Rama Chellappa, Chair of ECE Department

- Amanda Stein, Director
  Relationship Building & Community Outreach
  Corporate Relations/Corporate Affiliates Program
  Individual Giving
  Advisory Board
  External Relations Management

- Kara Stamets, Coordinator
  Project management of marketing materials
  Student Coordination
  Public and Media Relations'
  Website maintenance/updates
  Writer/Editor/Photographer

- Darcy Long, Program Management Specialist
  Event Coordination/Logistics
  Administrative Tasks & Development Support
  Research

Clark School External Relations Team

- Leslie Borak- Assistant Dean, External Relations
- Anna Lee- Senior Director, Corporate and Foundation Relations
- Heidi Sweely- Assistant Director, Corporate and Foundation Relations
- Vacant- Major Gift Officer with a focus on ECE

Main Areas of Focus within External Relations

- **Partnership Building and Engagement**
  - Faculty advancement
  - Department as a thought leader
- **Advisory Board Management**
- **Fundraising**
  - Individual: alumni, parents, faculty, friends/other
  - Corporate: Corporate Affiliates, other companies, career services (in conjunction with Engineering Career Services)
  - Prospecting/Discovery
  - Stewardship
- **Events**
- **Marketing**
  - Print Materials (mailings, event pieces, department collateral)
  - Digital (social media, e-newsletter, email invitations)
- **Public Relations**
  - Website
  - Articles (department news, faculty articles)
  - Press

Advisory Board Update

Welcome Dr. James Hsu

Entrepreneur and Trustee of the H.C. Jimmy Lin Foundation

Welcome Greg Starkey

Technical Director, Cyber Accounts- Booz Allen Hamilton

Please update your bio/picture/contact info

Events

Spring 2018 Events

- Spring ECE Career Fair
  - 40+ companies participated (record for Spring!)
- ECEGSA Industry Panel
- Bitcamp- Student lead Hackathon
- Distinguished Alumni Luncheon
- Reception for Graduating Seniors
- Golden Terps- many ECE alumni
- “Leadership Seminars” with Alumni
- Industry Tech Talks/Lobby Days
- 8 Booz Allen Hamilton Colloquium Speakers

Upcoming Fall 2018 Events

- Back to School Night- September 21st
- Fall Career Fair- October 12th or 19th
- 3-4 IEEE Leadership Seminars
- Technica- All Female Hackathon
- 8 Booz Allen Hamilton Colloquium Speakers
  - 10th Anniversary Event
- Lobby Day/Technical Talks

2018 Distinguished Alumni

- **Reza Ghanadan, BS ’88, MS ‘98, Ph.D. ’93- Google**
  - Senior Engineering Program Manager
  - Formerly with DARPA
  - Nominated by Gil Blankenship
- **Xiaobo Tan, Ph.D. ’02- Michigan State University**
  - MSU Foundation Professor and Director, Smart Microsystems Laboratory
  - Nominated by John Baras
- **Yannis Viniotis, M.S. ‘85, Ph.D. ’88- North Carolina State University**
  - Professor
  - Nominated by Tony Ephremides

Philanthropy

Corporate Affiliates Program

- Companies Supporting ECE with a minimum $10,000-$15,000 in support
    - Philanthropic or research
- 1 new in Spring 2018:
    - TDF Ventures
- Renewals in progress

Fearless Ideas: The Campaign for Maryland

A comprehensive, campus-wide, seven-year development effort to raise $1.5B by December 31, 2021.

Goal: UMD will serve as a catalyst for visionary research, innovation and learning, delivering on a promise that all our graduates will leave ready to impact the challenges of the 21st century.

Four main campaign themes

- Transform the Student Experience
- Discover New Knowledge
- Turn Imagination into Innovation
- Inspire Maryland Pride.

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Clark School Goals

Overall Goal: $500,000,000

Amount Raised to Date: $414,405,448 (including the investment from the Clark Foundation)

Original Goal: $385,000,000

No specific goal for ECE

Funding Priorities

- Doctoral fellowships
- Facilities
- Professorship & chairs
- Facilities
  - New Buildings- IDEA Factory
  - Labs
- Unrestricted support
  - Seeding research
  - Instrumentation
  - Faculty start-up funds
- Scholarships
  - Maryland Promise matching gift program

Maryland Promise

- The Clark Challenge for the Maryland Promise will be a scholarship endowment fund of $100 million
- Match 1-1 for scholarships for $50,000 or more created through July 1, 2026
    - Under $50,00 have the opportunity to go into the Maryland Promise General Fund
    - Any gifts of $25,000 can be pledges in up to 5 years
- The fund will provide need based scholarships for undergraduate students from underserved populations who are residents of Maryland and DC
- Will cover both financial need and substantive programming
- Awarded to incoming freshmen for 4 years, and for 2 years for transfer students

Priorities for Philanthropy/Partnerships- ECE

- **Labs**
  - Renovation of Existing Labs
  - Creation of New around Capstone Course
- **Research**
  - Faculty
  - Undergraduate
- **Endowed Professorships for ECE**
- **Corporate Partnerships**
  - Faculty Research
  - Recruitment
  - Undergraduate Research Fellowships
- **Endowed ECE Scholarships**
- **Student Support**
  - Clubs
  - Graduate Fellowships
  - Undergraduate Teaching Fellowships

Labs

- **ENEE101- Discovery Lab**
- ENEE205- Electronics Circuits
- ENEE245- Digital Circuits and Systems
- **ENEE307- Electronic Circuits and Design Lab**
- ENEE407- Microwaves Lab
- ENEE417- Microelectronics Design Lab
- **ENEE428- Communications Design Lab**
- ENEE445- Computer Lab/Capstone Design Project
- ENEE461- Controls Lab
- ENEE473- Electronics Machine Lab
- ENEE486- Opto-Electrcis Lab

Potential Funding for Labs in 2018/2019

- **Capstone Design Lab**
- **Sustainable Cyber Physical Systems**
- **Networking Lab (ENTS)**
- **Cyber Lab (in conjunction with ACES)**
- **Antenna Design and Microwaves Lab**

Marketing & Communications

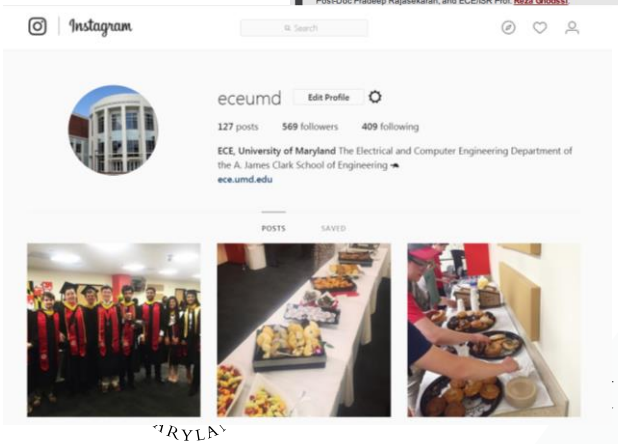
2018 Marketing Efforts

Print Marketing

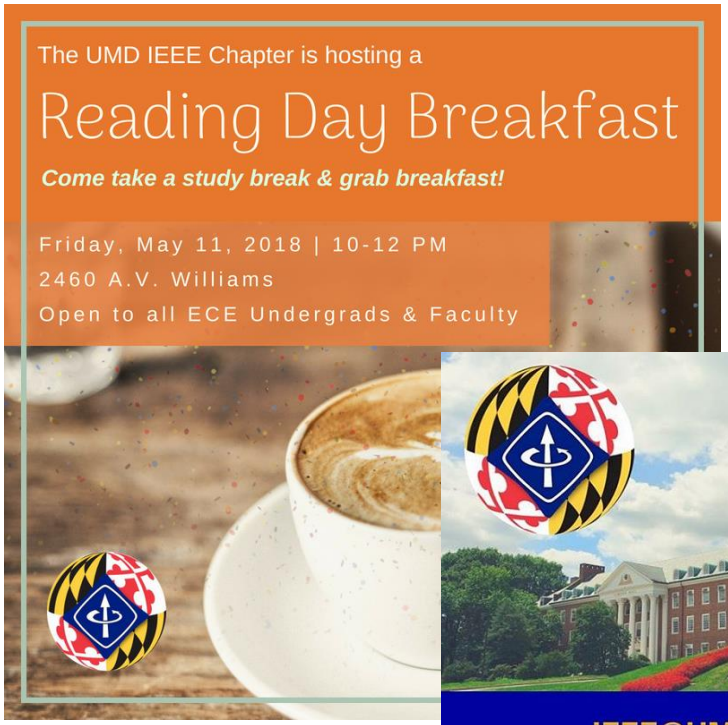
- Events, Tech Talks, and Course Flyers
- Direct Mailer sent to Graduating Seniors & Families
- Upcoming: 2018 Connections Alumni Magazine

Web Marketing

- Email: Weekly Calendar of News, Events, Job Postings, Course Information, and Reminders
- E-Newsletters (Feb/April/June) – 23% Average open rate
- At least 3-4 articles posted to the website a week
- Alumni Profile articles
- Instagram giveaway, spotlight stories, student features



Student Support & Events



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UMD Media Placements

Engineering at Maryland

Terp Magazine

The Diamondback

2017 IHOF Inductee

The A. James Clark School of Engineering named alumnus Hamid Jafarkhani (Ph.D. '97 electrical engineering) as the 2017 inductee to its Innovation Hall of Fame. At the November 27 induction ceremony, Jafarkhani was honored for pioneering different space–time methods and algorithms for multi-antenna wireless communication systems and networks. He was a primary contributor to the development of space–time block codes, which are used to improve wireless transmission quality. The codes have created an active area of research and are used in billions of wireless devices worldwide. His collective work has profoundly influenced the commercialization, standard specifications, and fundamental advancement of the theory of space–time processing and multiple-input multiple-output (MIMO) for wireless communications.

» LEARN MORE, VISIT go.umd.edu/ihof-17

Grad Launches App to Raise Money for Hungry Kids

With a new app and business to help feed the hungry, Luke Roberts (M.S. '16 mechanical engineering) asks you to wear your heart not on your sleeve, but on the front of your shirt.

My Phone Feeds Kids invites the charitable-minded to spend $25 to support the Maryland Food Bank and receive a T-shirt that reads "My Phone Feeds Kids. Does Yours?"

It raises additional money as wearers spread awareness and refer friends, family, and passersby to the app, while tracking the total amount of money they have helped raise through referrals.

He hopes to eventually expand to other causes, such as cancer and disease research, stopping human trafficking, and any others that users want to get involved in. "Our core thing is about empowering people to make a difference. It's not about T-shirts, it's not about technology. It's about how do we empower you as an individual."

» LEARN MORE, VISIT go.umd.edu/luke

CONNECTING WITH STRANGERS, DIGITALLY

While attending the University of Maryland, Jameel Francis ('08 electrical engineering) noticed how hard it is for college students to connect. He couldn't find others with similar interests to join him in on-campus research and share startup ideas with. To strengthen communication among students, Francis co-founded the app ComYoot, which launched in the iOS App Store last fall.

ComYoot uses machine learning and text and data analytics to help users build connections, according to its website. While many similar apps, such as Slack, are invite-based, ComYoot places users in networks based on information they provide when they download the app.

» LEARN MORE, VISIT go.umd.edu/comyoot

Engineering at Maryland | Spring 2018

NEW CHAMPION CLAIMS ALUMNI CUP

Every year since 2012, teams from each of the A. James Clark School of Engineering's eight departments have built a Rube Goldberg machine designed to complete a mundane task in the most entertaining way possible. This year, the teams set up their contraptions with the goal—which they learned one week prior to the February 23 competition—of sinking a one-meter putt. For the first time, the Department of Electrical and Computer Engineering claimed first place. Team members were particularly proud of the power supply built from scratch rather than purchased.

» LEARN MORE, VISIT go.umd.edu/hole-in-one

Solving Construction Delays

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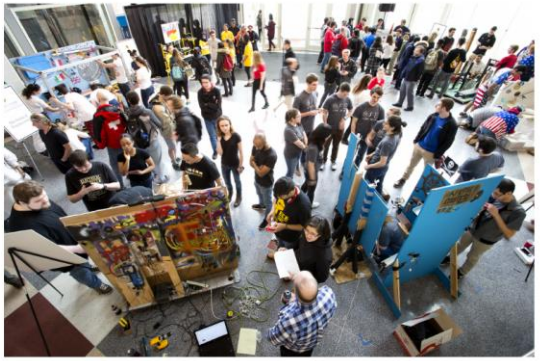
TERP

HOME CURRENT ISSUE ARCHIVES LETTERS TO THE EDITOR CONTACT US

CAMPUS LIFE / TRANSFORM THE STUDENT EXPERIENCE / TURN IMAGINATION INTO INNOVATION / WEB ONLY / FEBRUARY 26, 2018

Hole in One



Engineering Students Win With Crazy Machines

RECENT POSTS

A "Capitol Step" in the Right Direction
JUN 5, 2018

A YA Book of His Own
JUN 3, 2018

Happy Birthday, Testudo
JUN 1, 2018

Birds of a Feather
MAY 29, 2018

WEB ONLY

Cool Running
APRIL 17, 2018

The University of Maryland's Independent Student Newspaper

THE DIAMONDBACK

NEWS SPORTS OPINION DIVERSIONS SPECIAL PROJECTS CLASSIFIEDS HOUSING GUIDE ABOUT US

CAMPUS

UMD researchers received $2 million from the Energy Department to develop solar technology

2 million to a team of udents to lead a research systems.

this university had a

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Media Placements

WIRED

Machine Learning's 'Amazing' Ability to Predict Chaos

SHARE

SHARE 1918

TWEET

COMMENT

EMAIL

Jaideep Pathak, Michelle Girvan, Brian Hunt and Edward Ott of the University of Maryland, who (along with Zhixin Lu, now of the University of Pennsylvania) have shown that

After training itself on data from the past evolution of the Kuramoto-Sivashinsky equation, the researchers' reservoir computer could then closely predict how the flamelike system would continue to evolve out to eight "Lyapunov times" into the future, eight times further ahead than previous methods allowed, loosely speaking. The

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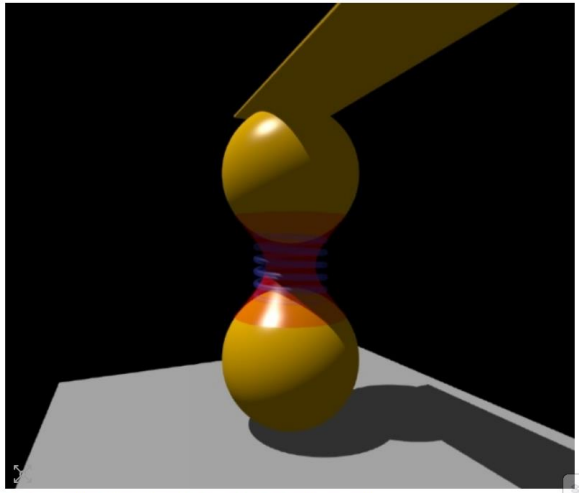
Gold spheres feel the Casimir force

03 Jan 2018



Oscillating spheres: illustration of the latest Casimir effect experiment

Technically | DC

News Jobs Events Subscribe

Mar. 9, 2018 12:50 pm

Symbiont Health wins University of Maryland's Pitch Dingman Competition

The student-run startup won $15,000 after presenting its fall detection device for seniors. Here's a look at the finals, held on March 6.

By Chris Barylick / CONTRIBUTOR

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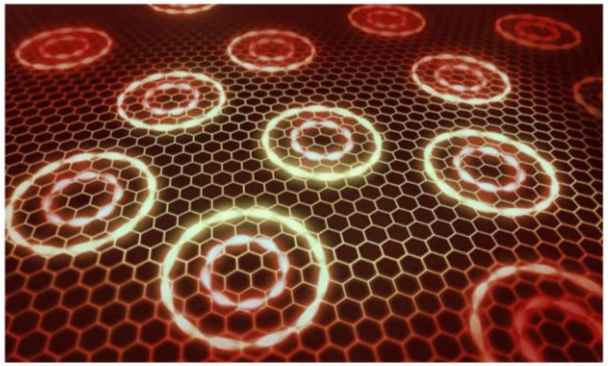
Physics » Quantum Physics » January 15, 2018

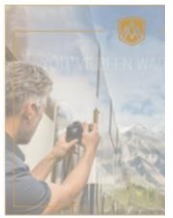
Light may unlock a new quantum dance for electrons in graphene

January 15, 2018 by Nina Beier, Joint Quantum Institute



Scientists have suggested a way to make electrons in graphene take on entirely new quantum behaviors. Credit: N. Beier/JQI and S. Kelley/JQI

A team of researchers has devised a simple way to tune a hallmark quantum effect in graphene—the material formed from a single layer of carbon atoms—by bathing it in light. Their theoretical



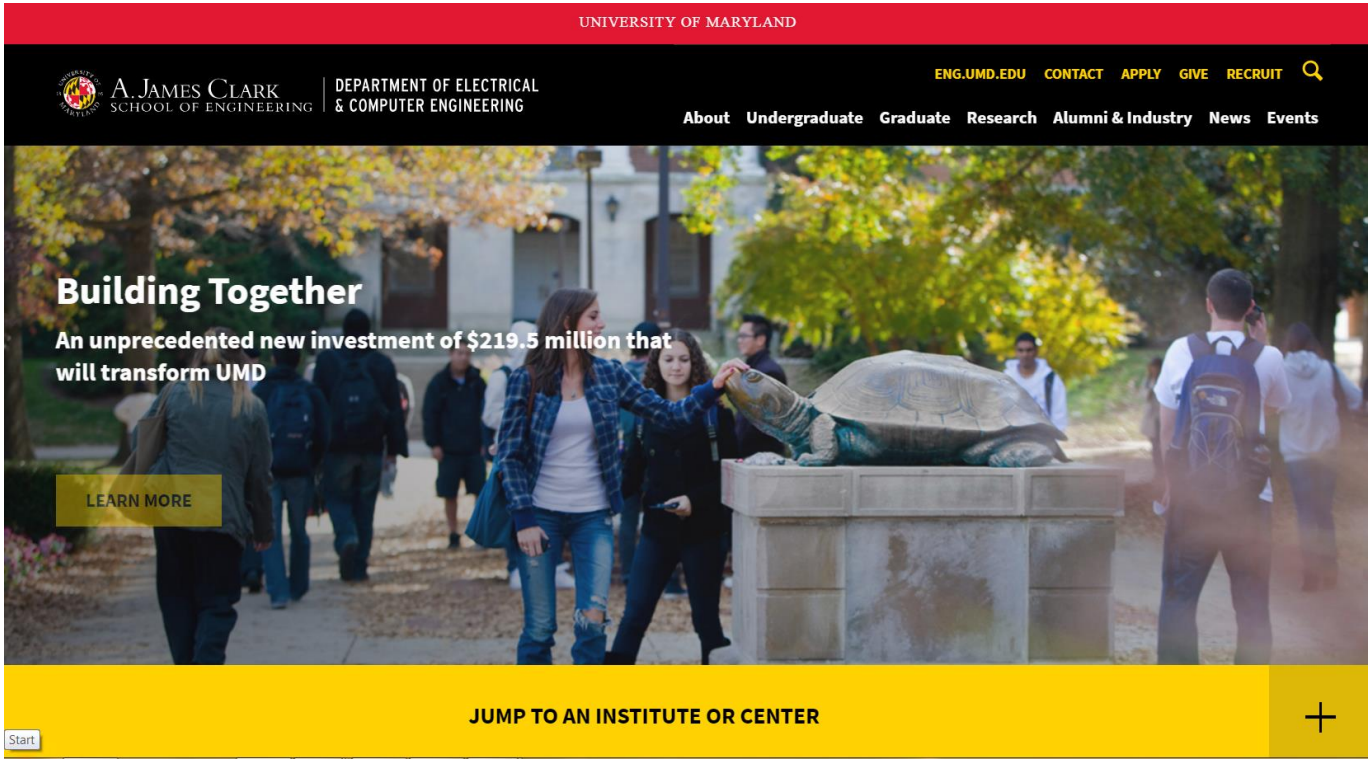
Featured Last comm

Juno solves 39-y Jupiter lightning

More mystery obj Milky Way's supe Jun 07, 2018

Research illumina radiocarbon datin

New ECE Dept. Website



- To be completed Fall 2018
- User-friendly, effective navigation, modern look

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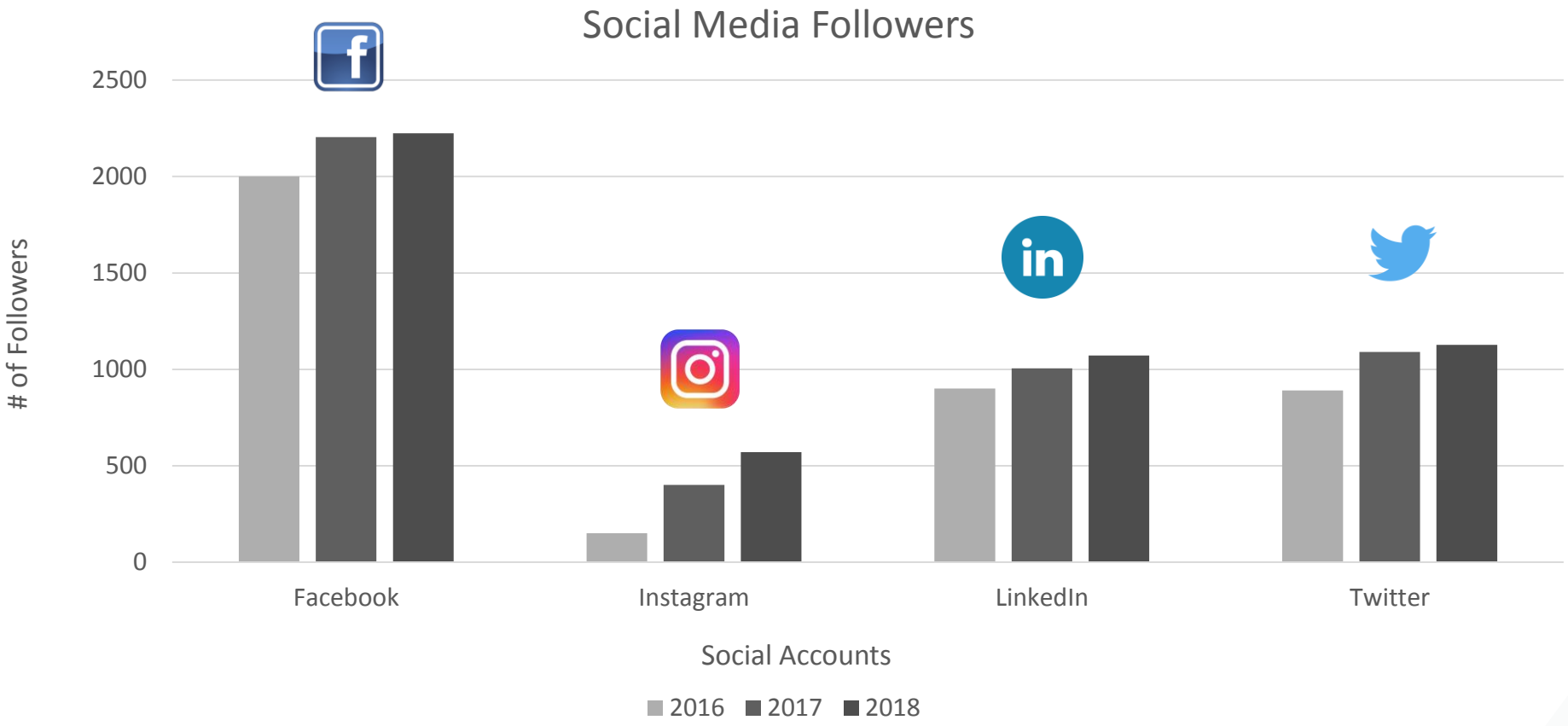
Social Media



Marketing Priorities

- Increase the frequency of high quality research stories
- Differentiate the ECE Dept. and highlight our cutting-edge facilitates and research
- Continue to invite alumni and friends to give seminars at UMD and cultivate relationships
- Attract students and highlight post-graduate success

Thank you!

Questions??