

State of the Department



Rama Chellappa
Chair

2013 graduates



**Responding to the Technology
Needs of the State, the Nation,
and the Global Community**

Goals for the department

- Graduate program in top 5 among public universities and top 10 among public and private universities
 - Ph.D. program that places our graduate students in the best universities and research labs
 - Master's program that delivers outstanding engineers for companies
- Undergraduate program in the top 10 among the public universities and 15 among public and private universities

ECE numbers

- 60 Tenured/tenure-track faculty
 - Retirement, Prof. John Melngalis.
- 50 other research faculty and Postdoctoral Fellows
- 35 Staff members
- Students: > 1400
 - Undergraduate majors 870
 - Graduate 525 (MS 280 PhD 270)
- Degrees awarded annually: 320
 - Undergraduate: 170
 - Graduate: 150 (MS 100, PhD 50)
- Research expenditures by ECE faculty: approx \$ 36 M
- Budget situation is not good.
- 3% COLA (effective 01/01/14) and 2.25% merit (effective 04/01/14)

What is the current state of the department?

- **Second** in mid-Atlantic among private and public universities (Princeton is first)
- **Second** among public universities along the east coast (GaTech is first).
- **Fourth** among public and private ECE departments along the east coast (MIT, GaTech, Princeton, UMD)
- These claims are based on the most recent US News and World Report
- The department is tied with USC and US San Diego in the Graduate Program

Faculty honors/awards

- Ed Ott - APS Lilienfeld prize, Chaired Professorship
- Tony Ephremides – 2012 Adhoc and Sensor Networks Technical Recognition Award
- Ray Liu – Chaired Professor, National Chiao Tung University, Taiwan; Invention of the Year Award
- Min Wu; Distinguished Scholar-Teacher
- Howard Milchberg – OSA Fellow
- Phil Sprangle – Maxwell Prize
- Mario Dagenais - Keck foundation Equipment Award

Alumni honors/awards

- Wade Trappe – Outstanding Engg. Faculty Award, Rutgers University, IEEE Fellow
- Zhu Man – IEEE Fellow
- Lingze Duan – NSF Career Award
- Hameed Jafarkhani – IEEE SUMNER Award

Staff hires/faculty retirement

- Staff hires: Search for a computer networking instructor in the ENTS program is underway
- Technician in charge of computer engg. design courses has been hired.

Student competition

- Terrapin Hackers/Hackathon
Mr. Shariq Hashme

Outreach

Amanda will discuss this
We have been very active.

Top down issues

- Fund balances – ECE lost 91k
- FY 15 cuts in base 2-4%
- Initiatives along Route 1
 - Hotel and conference center (100 million)
 - Golf course plans dropped
 - Other infrastructure improvements along Route 1
 - Corcoran museum

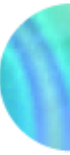
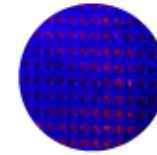
Advisory board changes

- Six members were retired (Doug Bishop, Tag Cutchis, Charles Franklin, Patrick McCusker, Patricia Mead, and Geof Hazel)
- Four new members have been added
 - Sonal Deshpande (NG)
 - Carol Dodsun (BGE)
 - Gregory Lyons (Wileyrein)
 - Steve Robinson (AT&T)

New charge to the board

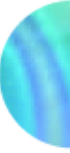
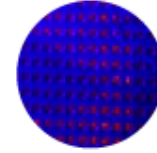
Corporate Relations
Alumni Relations
Graduate Studies
Undergraduate Studies

Marching onward



	1998	2011	2015
Ave. Fresh. SAT(R+M)	1200-1390	1300-1450	1360-1500
Ave. Enter. GRE(Q)	765	790	795
BS Degs.	153	175	250
ENEE MS Degs.	67	70	70
ENTS MS Degs.	19	90	120
ENEE PhD Degs.	36	56	65
Research Exp.	\$ 23 M	\$ 30 M	\$ 45 M
Philanthropic Supp.	\$ 0.3 M	\$ 0.6 M	\$ 2 M
NAE Members	0	0	2
Endowed Chairs	0	9	12
US News Ranking (Grad)	13	16 (out of 170)	<10
US News Ranking (UG)	not ranked	16	<15

Challenges



- Reduction in Graduate enrollment
 - Research \$\$s are going down.
- Reduction in budget
- Space
- Improving diversity
- Microelectronics area