State of Rice’s ECE Department

Behnaam Aazhang, Chair
Why did I Take This Job?

• More Money?
• Better Office?
• Power?
  – i.e., Push Rich Around?
• ???
Faculty and Staff

- 19 Tenure-Track Faculty
  - 8 IEEE Fellows
  - 6 Endowed Chairs
  - International Awards
- 2 Open Positions
- 3 Research Faculty
- 20 Joint/Adjunct
- Outstanding Staff
  - 40 Current and 2 Open Positions
Students

- 110 → 140 MS/PhD Students
- 15 → 30 MEE
- 60 → 100 BSEE Seniors
  - IEEE, Eta Kappa Nu, Tau Beta Pi, SWE
- Life after Rice
  - Broadcom, Exxon, HP, IBM, Intel, NEC, NI, Nokia, Qualcomm, TI, ViaSat, …
  - Colorado, Cornell, Georgia Tech, Illinois, MIT, Northwestern, Princeton, Purdue, Rutgers, SMU, Virginia, …
Facilities

• Abercrombie Lab
  – Two State of the Art Clean Rooms
  – Recently Renovated Undergraduate Lab
  – DSP Elite Lab
  – Available Lab Space!
    • Computer Engineering
    • Engineering Physics

• Duncan Hall

• Space Physics
Research Groups and Centers

• Center for Multimedia Communication (CMC)
• Networking Research Group (RNG)
• DSP Group
• MURI Center for Nanoshell Design
• Laboratory for Nanophotonics (LANP)
• Dynamical Systems Groups
• Connexions
Research Focus

- Network and Embedded Systems Architecture
- Computer-Aided Design for Emerging Nanotechnologies
- Terahertz and Laser Spectroscopy and Imaging
- Semiconductor Nanostructures
- and Much More
Funding

Research Expenditure per year in M$
Potentials and Strategies

- Visibility
- Global Presence
  - Research
  - Education
- Develop Leaders
- Overhaul of ECE Curriculum
  - Fundamentals
  - Design
  - Integration of Research
Why and Our Vision

• “Top Ten” Attitude
  – Contagious
  – Small Size, Location

• Global Impact

• Working on the Vision!
  – Control of our Budget
  – Advisory Council