Come and join your student IEEE Chapter!

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Outline

1. Overview of the IEEE
2. IEEE Student Branches
3. IEEE Student Membership
4. Life after College
1. IEEE Overview

- The Institute of Electrical and Electronics Engineers is the world’s largest technical professional society.
- The IEEE and its predecessors, the AIEE (American Institute of Electrical Engineers) and the IRE (Institute of Radio Engineers), date to 1884.
- More than 380,000 members in over 150 countries, including over 50,000 student members worldwide.
- IEEE is the leading authority in a wide range of technical areas.
- IEEE covers the fields of computer engineering, biomedical technology, telecommunications, electric power, aerospace and consumer electronics, etc.

1. IEEE Overview (cont’d)

- As the world’s largest professional technical society, the IEEE produces nearly 30% of the world’s published technical literature in the most prestigious journals (IEEE Transactions, Proceedings of IEEE) and conferences.
- IEEE sponsors more than 300 major conferences annually, has more than 800 active standards and many more under development.
- **IEEE Mission:**
  - Fostering Technological Innovation
  - Enabling Members’ Careers
  - Promoting Technical Community Worldwide
IEEE Regional Map

Regional Structure

Regional Activities Board

- Regions
  - Areas
  - Sub-Sections

- Sections
  - Chapters
  - Affinity Groups
  - Councils

- Student Branches
  - Student Branch Chapters
IEEE Organization

- IEEE is made up of 10 regions and 37 technical societies.
- Approximately 5% of the members volunteer to serve various IEEE related activities. These individuals make most of the operational decisions for IEEE worldwide.
- Hampton Roads is in Region 3
- IEEE Student Branch at Old Dominion University
  - Amber Mattson – president
  - Tristan Merrill – vice-president
  - Mark Lamont – secretary
  - Chad Rice – treasurer

IEEE Technical Societies

- Aerospace & Electronic Systems
- Information Theory
- Antennas & Propagation
- Instrumentation & Measurement
- Broadcast Technology
- Lasers & Electro-Optics
- Circuits & Systems
- Magnetics
- Communications
- Microwave Theory & Techniques
- Components, Packaging, & Nuclear & Plasma Sciences
- Manufacturing Technology
- Oceanic Engineering
- Computer
- Power Electronics
- Consumer Electronics
- Power Engineering
- Control Systems
- Professional Communication
- Dielectrics & Electrical Insulation
- Reliability
- Education
- Robotics & Automation
- Electromagnetic Compatibility
- Signal Processing
- Electron Devices
- Social Implications of Technology
- Engineering in Medicine & Biology
- Solid-State Circuits
- Engineering Management
- Systems, Man, & Cybernetics
- Geoscience & Remote Sensing
- Ultrasonics, Ferroelectrics,
- Industrial Electronics
- & Frequency Control
- Industry Applications
- Vehicular Technology
2. IEEE Student Branches

- A student branch is a basic operating entity of IEEE at a particular college or university.
- The purpose of the IEEE Student Branches is to provide the opportunities to meet and learn from fellow students, faculty members and professionals in the field.
- There are more than 1000 IEEE Student Branches worldwide.
- Student branch activities offer numerous educational, technical, and professional events.
4. IEEE Student Membership

- Application can be made on-line:
  http://services1.ieee.org/membersvc/nsmstudent/intro.htm
- Every IEEE student membership application requires the endorsement of a faculty member (usually the Student branch Counselor). This endorsement verifies the student status of the applicant.
- Student membership fee is approximately US$35 per year (full members pay $171 for 2009 year).
- There is an additional $10 per year fee for the local ODU IEEE student chapter.
- What benefits will you enjoy as a Student member?

IEEE Student Membership (cont’d)

- There are a lot of reasons to join, here are a few:
  - have the chance to speak with leading industry professionals on the latest technical trends and employment opportunities.
  - a subscription to Spectrum and Potentials, two IEEE periodicals which contain the latest news in the fields related to electrical engineering.
  - discounts on Society memberships, IEEE books and publications.
  - IEEE Personal Email Alias, e.g. john.smith@ieee.org
  - discounted ticket prices at ALL IEEE functions and events.
  - be a part of the world's largest professional organization!
Student Member Benefits

- @IEEE for students — a free email updating services that highlights information relevant to students:
  - Careers
  - IEEE Scholarships & Awards
  - Industry News
  - IEEE Products and Services

- IEEE Information Advantage Program — one-stop resource for technological innovation and professional networking
  - IEEE Xplore™
  - IEEE Fatbrain Bookstore
  - Ask*IEEE Document Delivery Service
IEEE Spectrum

- The IEEE Spectrum is a standard subscription for all IEEE members. It is also available on-line: http://www.spectrum.ieee.org/
- This magazine is intended for the general audience in the field of electrical and computer engineering — easy to read for all.
- Primary focus is on the current industrial trends, R&D on leading edge technology.
- A “must read” publication!

IEEE Potentials

- The IEEE Potential is a bi-monthly magazine dedicated to students members.
- All articles are written in easy to understand language for college and university students.
- Primary focus is on issues related to engineering education and career.
- Available on line: http://www.ieee.org/membership/students/potentials/
5. IEEE Life after College

- The years immediately following student life present unique challenges.
- The IEEE GOLD (Graduate Of the Last Decade) program was developed to assist IEEE members as they make the transition from student to working engineer.
- Any IEEE member graduated from their first professional degree during the past 10 years is automatically included in this program.
- The IEEE recognizes that today’s students become tomorrow’s IEEE.
- Details of the GOLD program can be found at http://www.ieee.org/gold/

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