# IEEE-Advancing Technology for the Benefit of Humanity 

David Green

R3 Pre-Meeting
12 March 2012

## Our Heritage

AIEE (1884) - American Institute of Electrical Engineers

IRE (1912) - Institute of Radio Engineers


The badge of the new IEEE combined the right hand rule from the IRE with the kite from the AIEE
IEEE (1963) Institute of Electrical and Electronics
Engineers formed from merger of AIEE \& IRE

## IEEE Governance Organization

## PSPB

Publication Services, and Products Board
 MEMBERS

## Assembly

## Board of Directors



## Governance: Conducting the Meeting "What are the Rules?"

- New York State
- IEEE Constitution
- IEEE Bylaws
- IEEE Policies

■ OU Governing Documents

- Technical Activities Operations Manual
- Society Constitution and Bylaws
- Roberts’ Rules of Order
- Primarily for Issues NOT CODIFIED in other Governing Documents


## IEEE Volunteers

■ Gordon Day (2012), President and CEO

- Other corporate officers
- Board of Directors
- Major Boards
- Committees
- Other OU Leaders - like in sections and chapters
- Reviewers
- 50,000 - 200,000 people


## Region 3 at Sections Congress in San Francisco, 2011



## IEEE Staff

- Led by Jim Prendergast, COO and Executive Director
- Over 1000 employees
- Most in the IEEE Operations Center in Piscataway, NJ
- Also Bangalore, Tokyo, Singapore, Canada, Washington DC, New York, California, others


## Organization

Grouped into geographic areas reflecting where we live and work...

- 10 Geographic Regions

MGA
Member \& Geographic Activities

- 333 Sections within Regions
- 1,855 Student Branches at universities in 80 countries



# ■...and technical areas based on our fields and interests 

- 38 Societies and 7 Technical Councils
- 2,081 Chapters (within local Sections)


Pre-University

## MGA Board - Volunteer Structure September 2010

## IEEE MGA - Staff Organization



## Geographic Organization

MGA

- Region
- Area
$\rightarrow$ Council
- Section
$\begin{array}{ll}- & \text { Chapter } \longleftarrow \\ - & \text { Student Branch }\end{array}$ Student Branch Chapter


## IEEE REGION

- Area 1 - Virginia
- Area 2 - North Carolina (Council)
- Area 3 - Georgia
- Area 4 - Florida (Council)
- Area 5 - Tennessee (Council)
- Area 6 - Alabama, Mississippi
- Area 7 - South Carolina (Council)
- Area 8 - Kentucky, Indiana (portion)
- Area 9 -Jamaica


## Sections

- Provide a community of colleagues
- Members build a network through local Section, Chapter, Student Branch activities
- Volunteer leaders develop new skills - Gain management, teamwork and leadership experience
- Provide local professional and technical activities
- Recognize achievements of members and others


## IEEE-USA Mission

- "shall be to recommend policies and implement programs specifically intended to serve and benefit the members, the profession, and the public in the United States in appropriate professional areas of economic, ethical, legislative, social and technology policy concern.'
- "IEEE-USA shall be the organizational unit that represents the professional interests of the IEEE before U.S. governmental bodies"

Source: IEEE-USA Bylaw I-303(8); IEEE-USA Policy 1.1 for Humanity

## IEEE-USA - Major Areas

- Career \& Member Services http://www.ieeeusa.org/careers/
- Communications \& Public Awareness http://www.ieeeusa.org/communications/
- Government Relations
http://www.ieeeusa.org/policy
- Professional Activities
http://www.ieeeusa.org/volunteers/pace/


## Region 3 Professional Activities Operations

- Chair: George McClure
- PACE: John Montague
- Section PACE Chairs
- SPAC: Mary Lynn Smith

■ Employment and Career Services: Ed Kirchner

- Career Enhancement / Jobs Board: Ed Kirchner
- K-12 STEM Literacy: Ralph Russell

PACE
Professional
Activities
Committees
for Engineers

STEM
Science,
Technology
Engineering
Mathematics

## Societies \& Technical Councils

- Bring members together with similar technical interests
- Sponsor conferences, workshops tutorials, seminars, etc
- Develop publications: Journals, Magazines, Newsletters
- Recognize member accomplishments

TAB<br>Technical Activities Board

## Societies \& Councils

- Aerospace \& Electronic Systems
- Antennas \& Propagation
- Broadcast Technology
- Circuits \& Systems
- Communications
- Components, Packaging \& Manufacturing Technology
- Computational Intelligence
- Computer
- Consumer Electronics
- Control Systems
- Dielectrics \& Electrical Insulation
- Education
- Electromagnetic Compatibility
- Electron Devices
- Engineering in Medicine \& Biology
- Geoscience \& Remote Sensing
- Industrial Electronics
- Industry Applications
- Information Theory
- Instrumentation \& Measurement
- Intelligent Transportation Systems
- Magnetics
- Microwave Theory \& Techniques


## Societies \& Councils

- Nuclear \& Plasma Sciences
- Oceanic Engineering
- Photonics
- Power Electronics
- Power \& Energy
- Product Safety

Engineering

- Professional

Communication

- Reliability
- Robotics \& Automation
- Signal Processing
- Social Implications of Technology
- Solid-State Circuits
- Systems, Man, \& Cybernetics
■ Ultrasonics,
Ferroelectrics \&
Frequency Control
- Vehicular Technology

Technical Councils

- Biometrics
- Electronic Design

Automation

- Nanotechnology
- Sensors
- Super Conductivity
- Systems
- Technology Management


## IEEE Membership By Region

31 December, 2011

R9 - 18,235


## Region Membership (As of 29 February 2012)

Geographic IEEE Membership Summary - February 2012

| REGION | Higher-Grade w/o GSM |  |  |  | Graduate Students |  |  |  | Undergraduate Students |  |  |  | TOTAL MEMBERS |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 2012 | 2011 | Change |  | 2012 | 2011 | Change |  | 2012 | 2011 | Change |  | 2012 | 2011 | Change |  |
|  |  |  | \# | \% |  |  | \# | \% |  |  | \# | \% |  |  | \# | \% |
| 1 | 25,854 | 26,663 | (809) | -3.0\% | 1,661 | 1,759 | (98) | -5.6\% | 1,547 | 1,491 | 56 | 3.8\% | 29,062 | 29,913 | (851) | -2.8\% |
| 2 | 22,811 | 23,538 | (727) | -3.1\% | 1,595 | 1,677 | (82) | -4.9\% | 1,567 | 1,530 | 37 | 2.4\% | 25,973 | 26,745 | (772) | -2.9\% |
| 3 | 20,111 | 20,670 | (559) | -2.7\% | 2,071 | 2,194 | (123) | -5.6\% | 2,444 | 2,406 | 38 | 1.6\% | 24,626 | 25,270 | (644) | -2.5\% |
| 4 | 15,315 | 15,753 | (438) | -2.8\% | 1,581 | 1,665 | -84 | -5.0\% | 1,694 | 1,791 | -97 | -5.4\% | 18,590 | 19,209 | (619) | -3.2\% |
| 5 | 19,979 | 20,577 | (598) | -2.9\% | 1,634 | 1,700 | (66) | -3.9\% | 2,030 | 1,961 | 69 | 3.5\% | 23,643 | 24,238 | (595) | -2.5\% |
| 6 | 40,514 | 41,614 | $(1,100)$ | -2.6\% | 2,592 | 2,875 | (283) | -9.8\% | 2,959 | 2,689 | 270 | 10.0\% | 46,065 | 47,178 | $(1,113)$ | -2.4\% |
| R 1-6 | 144,584 | 148,815 | $(4,231)$ | -2.8\% | 11,134 | 11,870 | (736) | -6.2\% | 12,241 | 11,868 | 373 | 3.1\% | 167,959 | 172,553 | $(4,594)$ | -2.7\% |
| 7 | 10,477 | 10,616 | (139) | -1.3\% | 1,774 | 1,753 | 21 | 1.2\% | 1,225 | 1,208 | 17 | 1.4\% | 13,476 | 13,577 | (101) | -0.7\% |
| 8 | 40,434 | 40,429 | 5 | 0.0\% | 9,452 | 9,672 | -220 | -2.3\% | 6,647 | 6,127 | 520 | 8.5\% | 56,533 | 56,228 | 305 | 0.5\% |
| 9 | 6,357 | 5,986 | 371 | 6.2\% | 1,156 | 1,316 | (160) | -12.2\% | 3,113 | 3,054 | 59 | 1.9\% | 10,626 | 10,356 | 270 | 2.6\% |
| 10 | 39,874 | 38,731 | 1,143 | 3.0\% | 8,541 | 8,322 | 219 | 2.6\% | 16,760 | 16,117 | 643 | 4.0\% | 65,175 | 63,170 | 2,005 | 3.2\% |
| R 7-10 | 97,142 | 95,762 | 1,380 | 1.4\% | 20,923 | 21,063 | -140 | -0.7\% | 27,745 | 26,506 | 1,239 | 4.7\% | 145,810 | 143,331 | 2,479 | 1.7\% |
| TOTAL | 241,726 | 244,577 | -2,851 | -1.2\% | 32,057 | 32,933 | (876) | -2.7\% | 39,986 | 38,374 | 1,612 | 4.2\% | 313,769 | 315,884 | $(2,115)$ | -0.7\% |

## Region 3 Membership

- Region 3 is currently the sixth largest IEEE region. At the end of February 2012 the Region had 24,626 total members:
- Region 3 represents $7.8 \%$ of IEEE' s total membership.
- The Region has 20,111 Higher Grade Members, 2,071 Graduate Student Members and 2,444 Student Members.
- Membership in the Region is down by 2.5\% from February 2011, representing a loss of 644 members.
- Higher grade membership is down by $2.7 \%$ from February 2011, representing a loss of 559 members.
- Graduate Student Membership is down by 5.6\% from February 2011, representing a loss of 123.
- Student membership is up by $1.6 \%$ from February 2011, representing a gain of 38 members.


## Service Deactivations - 2012

## Deactivations as a \% of total membership, prior month (Jan)

| REGION | \# Service Deactivations Feb '12 | Total Membership Jan '12 | Deactivation \% of Jan '12 | \% of '11 | \% of '10 | \% of '09 | \% of '08 | \% of '07 | \% of '06 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| R-1 | 7,285 | 36,558 | 19.9\% | 17.7\% | 17.7\% | 18.9\% | 19.6\% | 18.3\% | 18.5\% |
| R-2 | 6,681 | 32,718 | 20.4\% | 18.4\% | 18.4\% | 18.0\% | 19.6\% | 18.0\% | 18.2\% |
| R-3 | 7,319 | 31,412 | 23.3\% | 20.2\% | 20.2\% | 20.1\% | 22.0\% | 19.5\% | 20.6\% |
| R-4 | 5,357 | 23,859 | 22.5\% | 19.1\% | 19.1\% | 19.3\% | 21.7\% | 20.0\% | 19.9\% |
| R-5 | 6,644 | 30,050 | 22.1\% | 19.6\% | 19.6\% | 20.4\% | 20.8\% | 20.3\% | 20.5\% |
| R-6 | 12,416 | 58,157 | 21.3\% | 19.4\% | 19.4\% | 20.4\% | 20.2\% | 19.7\% | 20.1\% |
| R 1-6 | 45,702 | 212,754 | 21.5\% | 19.0\% | 19.0\% | 19.6\% | 20.5\% | 19.3\% | 19.6\% |
| R-7 | 3,990 | 17,209 | 23.2\% | 20.2\% | 20.2\% | 20.7\% | 20.6\% | 22.2\% | 20.7\% |
| R-8 | 23,233 | 75,138 | 30.9\% | 26.0\% | 26.0\% | 25.8\% | 24.3\% | 25.5\% | 26.0\% |
| R-9 | 8,546 | 17,429 | 49.0\% | 44.4\% | 44.4\% | 48.0\% | 48.3\% | 47.9\% | 50.3\% |
| R-10 | 42,747 | 95,353 | 44.8\% | 37.7\% | 37.7\% | 37.2\% | 34.5\% | 36.3\% | 37.0\% |
| R 7-10 | 78,516 | 205,129 | 38.3\% | 32.2\% | 32.2\% | 32.2\% | 30.5\% | 31.8\% | 32.4\% |
| TOTAL | 124,218 | 417,883 | 29.7\% | 25.2\% | 25.2\% | 25.4\% | 24.9\% | 24.7\% | 24.9\% |

## Year-over-Year Deactivations by Region / Grades

| Region | 2012 | 2011 |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  |  |  | \# | \% |
| 1 | 5,584 | 5,408 | 176 | 3.3\% |
| 2 | 4,951 | 4,847 | 104 | 2.1\% |
| 3 | 5,120 | 4,835 | 285 | 5.9\% |
| 4 | 3,639 | 3,440 | 199 | 5.8\% |
| 5 | 4,904 | 4,578 | 326 | 7.1\% |
| 6 | 9,649 | 9,183 | 466 | 5.1\% |
| R 1-6 | 33,847 | 32,291 | 1,556 | 4.8\% |
| 7 | 2,899 | 2,829 | 70 | 2.5\% |
| 8 | 14,498 | 12,634 | 1,864 | 14.8\% |
| 9 | 3,345 | 2,794 | 551 | 19.7\% |
| 10 | 16,033 | 13,517 | 2,516 | 18.6\% |
| R 7-10 | 36,775 | 31,774 | 5,001 | 15.7\% |
| TOTAL | 70,622 | 64,065 | 6,557 | 10.2\% |
| *not including graduate students |  |  |  |  |


| Region | 2012 | 2011 | Change |  |
| :---: | :---: | :---: | :---: | :---: |
|  |  |  | \# | \% |
| 1 | 1,701 | 1,585 | 116 | 7.3\% |
| 2 | 1,730 | 1,557 | 173 | 11.1\% |
| 3 | 2,199 | 1,869 | 330 | 17.7\% |
| 4 | 1,718 | 1,495 | 223 | 14.9\% |
| 5 | 1,740 | 1,629 | 111 | 6.8\% |
| 6 | 2,767 | 2,575 | 192 | 7.5\% |
| R 1-6 | 11,855 | 10,710 | 1,145 | 10.7\% |
| 7 | 1,091 | 1,025 | 66 | 6.4\% |
| 8 | 8,735 | 8,428 | 307 | 3.6\% |
| 9 | 5,201 | 4,970 | 231 | 4.6\% |
| 10 | 26,714 | 24,295 | 2,419 | 10.0\% |
| R 7-10 | 41,741 | 38,718 | 3,023 | 7.8\% |
| TOTAL | 53,596 | 49,428 | 4,168 | 8.4\% |

## Region 3 Membership

## (as of 29 February 2012)

## Region 3 Membership by Section

| Section Name | Total Members |
| :--- | :---: |
| Alabama Section | 875 |
| Atlanta Section | 3503 |
| Broward Section | 470 |
| Canaveral Section | 169 |
| Central Georgia Section | 246 |
| Central North Carolina Section | 276 |
| Central Savannah River Section | 172 |
| Central Tennessee Section | 682 |
| Central Virginia Section | 547 |
| Charlotte Section | 651 |
| Chattanooga Section | 313 |
| Coastal South Carolina Section | 400 |
| Columbia Section | 384 |
| Daytona Section | 184 |
| East Tennessee Section | 865 |
| Eastern North Carolina Section | 2580 |
| Evansville-Owensboro Section | 191 |
| Florida West Coast Section | 1790 |
| Gainesville Section | 453 |
| Hampton Roads Section | 683 |


| Section Name | Total Members |
| :--- | :---: |
| Jacksonville Section | 347 |
| Jamaica Section | 140 |
| Lexington Section | 379 |
| Louisville Section | 354 |
| Melbourne Section | 590 |
| Memphis Section | 393 |
| Miami Section | 527 |
| Mississippi Section | 423 |
| Mobile Section | 177 |
| Northwest Florida Section | 290 |
| Orlando Section | 1098 |
| Palm Beach Section | 650 |
| Piedmont Section | 456 |
| Richmond Section | 686 |
| Savannah Section | 199 |
| Tallahassee Area Section | 273 |
| Tri Cities Section | 95 |
| Virginia Mountain Section | 592 |
| W North Carolina Section | 299 |
| Winston-Salem Section | 145 |

## Region 3 Membership by Grade

| REGION 3- MEMBERSHIP TOTAL BY GRADE |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Feb-12 |  |  |  |  |
| Grade | Jan-12 | Jan-11 | \# Change | \% Change |
| Honorary | 0 | 0 | 0 | $0.0 \%$ |
| Fellow | 557 | 542 | 15 | $2.8 \%$ |
| Senior Member | 3,009 | 3,108 | -99 | $-3.2 \%$ |
| Member | 15,753 | 16,191 | -438 | $-2.7 \%$ |
| Associate | 792 | 829 | -37 | $-4.5 \%$ |
| GSM | 2,071 | 2,194 | -123 | $-5.6 \%$ |
| StM | 2,444 | 2,406 | 38 | $1.6 \%$ |
| Total | 24,626 | 25,270 | -644 | $-2.5 \%$ |

## Total IEEE Membership 1963 to 2011



## Bill Williams, Chair <br> R3 Member Recovery and Recruitment billwill@ieee.org-336-749-4156

The Section's Membership Development Chair is the key point person for establishing rapport with present and potential members including those eligible for elevation to Senior Member. Someone with an outgoing personality who enjoys dialogue, discussion and mentoring is an ideal candidate for Membership Development.

I encourage all Chairs to meet with me as a group in order to share our ideas, coordinate action plans and analyze our membership data to organize strategies and bring about positive and successful efforts in recovering and recruiting members. I can meet with you at your convenience.

## IEEE Student Membership 1963 to 2011 <br> \section*{120000}

107,812


## R3 Student Team

## SAC

Student
Activities Chair (or Committee)

- SAC Regina Hannemann [r.hannemann@ieee.org](mailto:r.hannemann@ieee.org)
- RSR Josh Shank < Joshua.Shank@ieee.org>
- Vice Chair and SPAC Mary Lynn Smith

RSR
Regional
Student
Representative
SPAC
Student
Professional
Activities
Conference

- Past Chair Eric Ackerman
- Mentor Bruce Walcott
- Region 3 Student Conference (parallel with other events)
- Contests: Hardware, Software, Ethics, Website, T-Shirt
- Training
- Training and other engagement support during year


## 2011 Female Membership by Region

|  | HIGHER GRADE w/o GSMs |  |  | STUDENTS |  |  | TOTAL MEMBERS |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| REGION | IEEE | Female |  | IEEE | Female |  | IEEE | Female |  |
|  |  |  | \% |  |  | \% |  |  | \% |
| 1 | 31,126 | 2,033 | 6.5\% | 4,298 | 489 | 11.4\% | 35,424 | 2,522 | 7.1\% |
| 2 | 27,548 | 1,913 | 6.9\% | 4,225 | 490 | 11.6\% | 31,773 | 2,403 | 7.6\% |
| 3 | 25,038 | 1,584 | 6.3\% | 5,642 | 707 | 12.5\% | 30,680 | 2,291 | 7.5\% |
| 4 | 18,817 | 1,092 | 5.8\% | 4,404 | 429 | 9.7\% | 23,221 | 1,521 | 6.6\% |
| 5 | 24,623 | 1,554 | 6.3\% | 4,712 | 537 | 11.4\% | 29,335 | 2,091 | 7.1\% |
| 6 | 49,461 | 3,169 | 6.4\% | 7,202 | 785 | 10.9\% | 56,663 | 3,954 | 7.0\% |
| R 1-6 | 176,613 | 11,345 | 6.4\% | 30,483 | 3,437 | 11.3\% | 207,096 | 14,782 | 7.1\% |
| 7 | 13,334 | 878 | 6.6\% | 3,609 | 415 | 11.5\% | 16,943 | 1,293 | 7.6\% |
| 8 | 54,442 | 4,185 | 7.7\% | 21,880 | 3,806 | 17.4\% | 76,322 | 7,991 | 10.5\% |
| 9 | 9,487 | 855 | 9.0\% | 8,748 | 1,535 | 17.5\% | 18,235 | 2,390 | 13.1\% |
| 10 | 54,301 | 5,035 | 9.3\% | 43,092 | 12,869 | 29.9\% | 97,393 | 17,904 | 18.4\% |
| R 7-10 | 131,564 | 10,953 | 8.3\% | 77,329 | 18,625 | 24.1\% | 208,893 | 29,578 | 14.2\% |
| TOTAL | 308,177 | 22,298 | 7.2\% | 107,812 | 22,062 | 20.5\% | 415,989 | 44,360 | 10.7\% |

## Women in IEEE


*Based on those reporting gender to IEEE

## R3 Women in Engineering

■ Liaison: Anastasia Davis
 anastasia.davis@ieee.org

- Meet and Greet - Saturday 5:30pm in Orlando
$\square$ Coordinating chairs in Sections for sharing of ideas, best practices, and projects


## "Indicate all of fields in which you hold a degree" - 2008 Member Study

| Electrical or electronics engineering | $66 \%$ |
| :--- | :---: |
| Computer science/engineering | $27 \%$ |
| Physics | $10 \%$ |
| Mathematics | $\mathbf{7 \%}$ |
| Business or Finance | $\mathbf{8 \%}$ |
| Systems engineering | $3 \%$ |
| Mechanical engineering | $3 \%$ |
| Industrial engineering | $\mathbf{2 \%}$ |
| Materials science/ engineering | $\mathbf{1 \%}$ |
| Medicine | $\mathbf{1 \%}$ |
| Other | $10 \%$ |
|  |  |

## Technology Patent References to STM Publishers



- U.S. patent references from the top 25 patenting organizations in 2009 to top publishers
- Based on number of references to papers/standards/conferences from 1997-2009
- $33 \%$ of the sci-tech citations by the top 25 patenting organizations are to IEEE for Humanity

| Area | IEEE Top Journals <br> (out of 20) |
| :--- | :---: |
| Electrical and Electronics Engineering | $\mathbf{1 6}$ |
| Telecommunications | 14 |
| Computer Hardware and Architecture | 10 |
| Automation and Control | 9 |
| Artificial Intelligence | 8 |
| Software Engineering | 7 |
| Optics | 5 |
| Biomedical Engineering | 2 |
| Medical Informatics | 2 |
| Mathematical and Computational Biology <br> (Bioinformatics) | 1 |
| Nanoscience and Nanotechnology | 0 | for Humanity

## Publications

- More than 3 million articles in IEEE digital library
- 7M+ articles downloaded per month
- More than 2M engineers, scientists and students have free access
150+ journals, transactions and magazines
- 17 of the 20 top-cited publications in electrical and electronics engineering


Advancing Technology

## IEEE Spectrum Uses Social Media To Gain Visibility for IEEE



- Facebook
- 18,000 fans
- Twitter
- 12,000 followers
- LinkedIn
- >200 in group
- YouTube
- 11.5 million views
- 4,100 subscribers


## Standards

- IEEE is the leading developer of global industry standards
- Over 900 published standards; 500 in development
- Portfolio of development programs, products, and services
- Enhanced global adoption of IEEE standards -- IEC, ISO, and ITU.

IEEE-SA
IEEE Standards
Association


## IEEE Global Conference Business*

- More than 1,330 conferences sponsored
- 81 countries
- More than 387,000 attendees
- Acquired more than 1,300 conference proceedings*
- Partnered with more than 1,100 non-IEEE entities



## Region 3 Conferences

 - IEEE IEEE SoutheastCon 2012rrrovating for a Better Tomoreow



- SoutheastCon

■ Other conferences

- Partnering with others
- Section/Council Conferences


## Education Programs

- IEEE E-Learning Library
- Education Partners Program
- Skills Certifications

■ IEEE Pre-University Programs

- Pre-University Teacher In-Service Program (TISP)
- TryEngineering.org

- TryComputing.org currently in development
$\square$ Accreditation for Humanity


## Ken Pigg, Chair <br> R3 Educational Activities

## j.k.pigg@ieee.org 405-463-4495

- A primary objective of the Educational Activities Committee in 2012 is to enhance member engagement.
- We will be working to discover the things that the members in your sections need and seeking ways to accomplish them inside and outside of the section resources.
- We expect this to include continuous technical improvement and soft skills.
- I will be reaching out shortly to 2012 Section Educational Activities Chairs and Section Chairs to help recruit one, or contact me directly as noted above.


## Relationships With Other National Societies

- Spans more than 40 countries
- 49 national society agreements
- 25 "sister society" agreements : ex. IEEE Computer Society and U.K. org.
- Common interest, mutual benefit
- Agreements extend back several decades


## IEEE Humanitarian Activities

- IEEE volunteers and staff members improving the standard of living of under-privileged populations through...
- Creation or adaption of technology to benefit those in need
- development of technology policy and business models that support affordable, scalable, sustainable and long term application of such appropriate technology solutions


## IEEE Humanitarian Activities Include...

- IEEE Engineering Projects in
Community
Service (EPICS)
$\square$ Engineering for Change
- IEEE Presidents’

Change the World Competition


## EPICS in IEEE

- EPICS
(Engineering Projects in Community Service)

- Conceived and championed by IEEE 2007 President Leah Jamieson of Purdue University
- University and high-school students work on engineering-related projects with local area non-profit organizations
- Empowers student branches and IEEE GOLD groups to work with high school students on community service-related engineering projects


## Humanitarian Technology Focus "Engineering for Change"

- IEEE-ASME Joint Endeavor
- Engineers Without Borders
- Online environment
- Bring together engineers and other problem solvers with NGOs and local communities
- Address basic quality of life issues such as access to clean water, electricity and proper sanitation


Advancing Technology

## Some of R3's Butch Shadwell's Contribution



- IEEE


## Looking to the Future

- IEEE is bringing a more systematic, comprehensive approach to applying technology to help solve world problems
- Developing global solutions for critical need areas

- Encouraging local IEEE members to create solutions
- Providing information on funding sources, other support


## Region 3 Meeting

## 16-18 March 2012 <br> Orlando FL

## Friday

- 5:30 pm - 7pm Open Reception (Conf.)
- 7 - 9pm Areas, Councils
- 9 - 11pm Area/Council Chairs meet with Director, Director-Elect


## Saturday

- 8 am Welcome, Introductions, Focus (Green) 9am - noon, Member Engagement Workshop (Ratcliff, Randall)
- Noon lunch (IEEE-USA Presidential Candidates)
- 1pm - 1:45pm, Reporting from Member Engagement Breakouts
- 2pm - 4pm, Section Reports
- 4pm - 4:30pm, Member Segmentation Survey Results
- 4:30pm - 5:00pm, Day 1 Wrap Up (Green)
- 5:30-6pm WIE Meet and Greet (Davis)
- 6:00 pm - 9pm, Awards Banquet


## Sunday

- 8:15 am - noon Region 3 Meeting
- Actions
- Finances
- Committee Reports
- Guest speakers
- 12:30-2:30pm Conference Debrief


## Non-R3 Attendees

- Gary Blank, Consultants Network, IEEE-USA VP
- Stella Oduyela, IEEE Controller
- Matt Loeb, Staff Executive
- Vera Sharoff, MGA Information Management Director
- John Day, Director Membership Development
- Howard Michel, IEEE VP - MGA


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