

Message from the Outgoing Chair,

Ashutosh Dutta

It is my great pleasure that we have revived the long-awaited Princeton Central Jersey Section newsletter. The newsletter team consisting of Laura Zachary, Harry Nash, and Tom O'Rourke have taken great effort to launch this newsletter. I would like to thank all the chairs and vice-chairs of the respective chapters and societies who have kindly contributed articles. Like newsletters of other sections, our section newsletter will continue to provide the section related activities and upcoming events. During the last two years, our section had many significant accomplishments. Most important among them is the addition of four new chapters, namely, Broadcasting Technologies Society, Solid State Circuit Society (SSCS), Education Society, and Women in Engineering. I would like to congratulate the chairs and vice-chairs of these newly formed chapters for their leadership in getting them started. We have also added about 15 more new volunteers in various capacities. Our sister section relationship with the Bangalore section that started back in 2008 continues to flourish. I just recently visited the Bangalore section and attended a conference where I had a chance to interact with many of the Bangalore chapter officers.

During this year, our section successfully organized Industry Day and IEEE-USA seminar with the help from the neighboring sections, Southern Area and Region 1. I am very happy to learn that we managed to complete at least two meetings for all the chapters and societies. In that respect IEEE Computer Society in collaboration with ACM chapter has been an ideal example. I am particularly impressed with the renewable energy series initiated by PACE chapter and the seminars offered by the Consultant Network chapter. We had a wonderful annual awards dinner with Bob Lucky as the banquet speaker. Success of our awards dinners has been possible thanks to the excellent coordination of our awards chair Teri Ulrich. I am thankful to METSAC chair Bob Pellegrino, Southern Area chair Durga Misra, Region 1 director-elect Charles Rubenstein and Region 1 director Howard Michel for their advice and cooperation during my tenure as the section chair. I would like to thank our section treasurer Rebecca Mercuri who helped to manage a healthy and balanced budget, secretary Habib Ahson who managed to keep us all connected by his meeting minutes and communication throughout. Section vice-chair Wieslaw Bury gave me a constant helping hand all throughout with various section-related activities and I wish him the best when he succeeds me as the next section chair. Finally, I would like to thank all the volunteers and section members for their commitment to various professional activities in carrying forward the mission of IEEE that is celebrating its 125 year anniversary this year. I wish you all great success and hope that you find our new section Newsletter useful.

Best Wishes for the New Year!



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Special points of interest:

- Check out the "Sound BYTES" section for the latest news.
- This issue features a summary of Sarnoff 2009 and information about what's coming up in 2010.
- See what's happening in PCJS chapters in the "Around PCJS" section.

Happy Holidays!
Wieslaw Bury

In this first issue of our new newsletter, I would like to take the opportunity to wish all the members in our section Happy Holidays and a prosperous New Year.

For the officers of our section, please mark your calendars and reserve Friday, June 4, 2010 for our annual Awards Dinner which will be held in the Prospect House at Princeton University. The keynote speaker will be Moshe Kam, 2010 IEEE President- Elect.

Our section submitted a milestone application to IEEE for the first weather satellite TI-ROS 1, which was launched by RCA in 1960. If the application is approved, this milestone event will be held next year.

Messages from the Editors

Introducing YOUR Newsletter
Laura Zachary

Hello Readers! It is my great pleasure to deliver this newsletter to you. It has been a while since our section did this and technology has changed in the meantime, opening up new possibilities to bring you the latest news and information from around IEEE PCJS. As editors, Harry Nash, Tom O'Rourke, and myself want to ensure that the content we bring you in each newsletter is what YOU want to hear. During Excom, Tom summarized our objectives as follows.

- * Build a stronger awareness of section activities
- * Raise participation in chapter events
- * Create a sense of community among section members
- * Inform section members about IEEE resources
- * Help members who are out of work find new jobs
- * Increase IEEE membership by reaching out to students who are starting engineering careers

We need YOUR feedback. Would you like to see more news? Classifieds? Job Postings? Just let us know! Your comments and suggestions are very welcome. You can reach the newsletter team via email at pcjs-newsletter@ieee.org. We wish you all the best in 2010!

IEEE Leads in Technology
Harry Nash

Congratulations to all PCJS and fellow members of IEEE as we celebrate this past decade of unparalleled innovation and achievement. We are heartened by these achievements and give particular mention to the advancements in Internet Technology and the WorldWideWeb that provide the tools for people throughout the world to be truly connected. This comes at a time of greatest need as we address the increasingly challenging problems of Global Warming as well as the increasing poverty and exposure to famine and risks to health throughout the world.

We recognize that our challenge in the coming decade will be even greater, but our great strides and achievements over the 125 years of IEEE history are cause for confidence. This editor recalls his personal awareness during the early days of the Applied Solar Energy community when it planned the introduction of new tools for solar-generated heating and solar-generated heat for cooking to the emerging markets. The intent of this program was of course to put a focus on solar energy as a new and clean source of energy, but the even greater benefit was that solar was able to supplant the use of feedstock and similar organic fuels with consequent improvements in the sanitation, health and longevity for an entire community. This was a triple-win achievement that forecast the many similar IEEE innovations in technology that followed, and will continue into the future.

Pictures from the 2009 Awards Dinner



PCJS GOLD

We have an opening for an enterprising recent graduate to co-chair the PCJS GOLD Chapter. If you are interested, please contact [Erik Wendt](mailto:Erik.Wendt@ieee.org) at ewendt@ieee.org.

Trenton Computer Festival

For the blatant geeks in all of us, the Trenton Computer Festival is celebrating its 35th year on the weekend of Friday April 23rd to Sunday April 25th, 2010. On Friday we will kickoff with the TCF IT Professional Conference. On Saturday we are honored to have Richard Stallman, one of the earliest proponents of the free and open software movement, as keynote speaker. We are also pleased to announce, for the first time, the ARRL New Jersey State "Ham Radio" Convention will be held at TCF on Sunday, April 25th. With all of this activity, the Steering Committee is looking for volunteers to help with work prior to the Festival. Please contact Erik Wendt at ewendt@ieee.org or Allen Katz at a.katz@ieee.org to volunteer or to get more information. We look forward to seeing everyone there!

Fellow Class 2010

Congratulations to the following IEEE Princeton/Central Jersey Section members, who became IEEE Fellows effective 1 January 2010:

Mr. Srimat T. Chakradhar

- For contributions to digital integrated circuit testing

Ms. Margaret Rose Martonosi

- For contributions to power-efficient computer architecture and systems design

Mr. Victor Saul Miller

- For contributions to elliptic curve cryptography

Mr. Larry Peterson

- For contributions to the design, implementation, and deployment of networked software systems

Jian Hui Zhao

- For contributions to vertical silicon carbide devices and process technologies

You can see the complete list of 2010 IEEE fellows here:

<http://www.ieee.org/web/membership/fellows/index.html>

Congratulations to our award Winners!**IEEE Section Leadership**

- Dr. David Daut
 - Dr. Kyriakos Manousakis
- Friends of IEEE**
- Linearizer Technology Inc.
 - Princeton University
 - Sarnoff Corporation
 - Telcordia

IEEE Region 1 Awards

- Sarjit S. Bharj
- Dr. Subir Das
- Ashutosh Dutta

MGA Leadership

PCJS Section Chair Ashutosh Dutta has been selected as a recipient of the IEEE 2009 Members and Geographic Activities (MGA) Leadership Award for his distinguished leadership of the "Region 1 Southern Area Industry Day", as well as his continuous efforts to engage members of the IEEE Princeton & Central Jersey Section". Please join us in congratulating Ashutosh for his achievement.

Our section was nominated for best section and [mentioned in the IEEE website!](#)

Rutgers University

Predrag Spasojevic

This past semester, we hosted multiple sessions to increase networking and awareness about industries around us and had a line-following robotics competition. The Rutgers IEEE Student Chapter will be organizing the Student Professional Activities Conference in March 2010 with the goal of enhancing the professional awareness within the student body. See <http://ieee.rutgers.edu/old/SPAC%202007%20Sponsor%20Information.pdf> for details of our 2007 conference. If you would like to help, contact sailanka@eden.rutgers.edu or spasojev@winlab.rutgers.edu.

The College of New Jersey Student Branch

Orlando Hernandez

The TCNJ IEEE student branch gained official club status at TCNJ for the first time since 2006, allowing a school website, email, and room rental. Seminars this fall included a talk on real-time spectral analysis from Alan Wolke of Tektronix, and two talks on wireless communication by Dr. Raziq Yaqub, a Senior Systems Engineer at Telcordia Technologies.

Princeton Student Chapter

Sanjeev R. Kulkarni

In Spring 2009, the Princeton IEEE Student chapter hosted a department barbecue/mixer to bring together undergraduate students, graduate students, and faculty in Electrical Engineering. It was a very successful event. Plans for Fall 2009 included forming a committee to judge and present awards for undergraduate independent projects. Princeton University also delivered talks at IEEE PCJS Excom meetings.

DeVry University

Wieslaw Bury, PH. D.

2009 was an active year for the DeVry student branch, with sessions on a variety of topics, including renewable energy, PLC applications in industrial controls, 4G technologies, and next generation networks. Students from the branch also volunteered at the 2009 Sarnoff Symposium and Trenton Computer Festival.

Pictures — For those of you who have missed chapter events like PACE and IEEE-USA, pictures contributed by Habib Ahson, Hemant Vora, Craig Wentzel, and Iwan Santosa, are on the PCJS website.

TIROS 1 Milestone

Ashutosh Dutta, Wieslaw Bury

The PCJS has received pre-approval from the IEEE Global History for inclusion of the TIROS 1 satellite launch in its list of technical achievements. If all goes well, we will have the milestone event sometime in April 2010.

Computer Society

David Soll

The joint chapters of the ACM and the IEEE Computer Society's first meeting of the 2009-2010 season was held on Thursday, October 15, with the traditional SIGGraph (Special Interest Group on Computer Graphics) Computer Graphics video show. The meeting was a big success and was attended by more than 150 people. This meeting also marked the Computer Society's return to Princeton University. The Princeton/Central Jersey Chapter of the IEEE Computer Society would like to thank Sarnoff Corporation for hosting 15 years of past meetings and continuing support in other areas.

On November 19th, Dr. Andrew Appel of Princeton University graciously filled in for Mark Crispin Miller. Dr. Appel's talk, "Computers, Voting, and Elections Audits", was very well received, and generated lots of interesting discussion. December 17 was a talk by David Soll, the Chief Technology Officer for Omicron Consulting on Cloud Computing.

On January 18, the Institute for Advanced Study's Avi Wigderson will deliver a talk entitled: "The P vs. NP Problem: Efficient Computation, Internet Security". The February 18 meeting will feature Prakash Nauduri from Oracle Corporation who will speak on "Database Modernization: Past, Present, and Future". For more information on upcoming ACM/IEEE Computer Society meetings, please visit the web site at: <http://princetonacm.acm.org>

Communication Society

Pravin Raghuvanshi

As you all know, the volunteer officers of IEEE have a common goal: serving our field col-

leagues and IEEE global membership. Members rely on IEEE as a source of technical and professional information, resources and services. To foster an interest in the engineering profession, IEEE also serves student members around the world. ComSoc Society PCNJ section is happy to write that fulfilling IEEE goals, they arranged the following seminars:

- Current and Evolving e-Applications and Services and Next Generation Networks Beyond the Internet, featuring speaker Prof. Eric J. Addeo, Ph.D. on Aug. 11
- The new advent of fourth-generation (4G) technology with speaker Dr. Raziq Yaqub, Telcordia Technologies on Nov. 4

Consultants Network

Francis X. O'Connell

The Consultants Network was formed to bring together IEEE members and non-members who are consultants, small business owners, or anyone who would like to be self-employed wishing to learn about small business concerns. A recent meeting on November 4th addressed how small business owners can protect themselves from identity theft. Dan Crevina, VP of Marketing for the Better Business Bureau of NJ to speak about preventing identity theft, suggesting specific steps to take to reduce the likelihood of identity theft.

Future meetings will help consultants learn about doing business with the state and federal government.

PACE News

Ichen Mei

PACE (Professional Activities Committees for Engineers) focused on two areas in 2009, Green Energy and Communica-

tions. Green Energy - to help save energy and money, PACE organized a workshop and a tour on renewable energy. The workshop on presented an overview of the federal, state, technology and business aspects of the renewable energy industry. A subsequent tour to the Shisheido Solar Plant in East Windsor, New Jersey was conducted in September.

Communications - PACE sponsored a workshop on Non-Violent Communication (NVC) for IEEE members as well as their friends and families. The workshop was run by Dr. Marshall Rosenberg, the 2006 recipient of the Global Village Foundation's Bridge of Peace Award. The first PACE NVC workshop was given on December 2009.

Based on the positive feedback the PACE Committee received, the committee is looking to conduct more lectures, workshops, tours, and other activities focused on both Green Energy and Communications projects in 2010.

SSCS

Nagi Naganathan

After a successful petition drive, the SSCS chapter was established on May 7, 2009. Our inaugural meeting was held at Rutgers on September 17. Prof. Van der Spiegel gave an overview of SSCS, describing the scope of the Society's interests and its administrative structure. It is notable that that among the top 30 innovations which are life changers ranging from internet, laptop, mobile phones to genetically modified plants over the last 30 years, 10 have been directly related to advances in solid-state circuits, and another 8 have been indirectly related to ICs.

Women in Engineering

Aileen Cheng

The Women in Engineering Affinity Group was created in June of this year with the support of IEEE PCJS chair and others. We had a joint PCJS PACE, GOLD and WIE event on October 29 that included an insightful talk by IEEE-USA Grassroots Affair representative Mr. Russell Harrison and a social gathering hour. The event was well attended by more than 50 members and guests. On December 8 at Telcordia Technologies hosted a lunch seminar jointly arranged with the GOLD group. The presenter, Mrs. Sue Dorward, is a successful technical leader coach and a well-sought-after speaker. The topic of the talk, "The Fight or Flight Moment: Why we leave or stay in industry", aiming at discussing why women came in and leave the field of engineering. Please contact [Aileen Cheng](#) if you are interested in finding our more about The Women in Engineering Affinity Group.

Signal Processing Chapter

Saad Khan

In 2009, the SP chapter organized seminars from two IEEE Distinguished Lecturers in the fields of pattern recognition, video compression, and transmission over networks: "A Sparse Transform Theory for Time Varying and Non-stationary Signals and Systems" and "Monitoring Video Quality Inside a Network". These seminars were both very well received.

EMB Chapter

Wenyu Wei

A seminar was held on Sep 2, titled "Automated Manipulation and Characterization of Biomaterials under Optical Microscopy". It featured Dr. Yu Sun (University of Toronto, Canada). This talk started with a brief introduction of activities in micromanipulation under optical microscopy, such as the development of medical instrumentation for IVF (in vitro fertilization) clinical applications, and continued to present results from two comprehensive comparison studies of autofocus algorithms.

Power and Energy Society

Ed Sproles

In 2009, the Power and Energy Society sponsored programs focused on several power and energy engineering topics. In May, we cosponsored a pro-

gram titled "Renewable Energy Technologies, Opportunities and Future," that discussed solar and wind energy and some of the applications within our region. In October, Mr. Ken Scherer, Regional Manager, YASKAWA, presented a program on Variable Speed Drives and the energy savings that can be realized by investment in these devices. In November, Dr Swarn Kalsi, Kalsi Green Power Systems, presented a seminar on Applications of Superconductors to Power Equipment including motors, generators, transformers and transmission lines.

Photonics Society

Nicholas Madamopoulos

IEEE LEOS (Lasers and Electro-Optics Society), the pre-eminent global society in the field of photonics, lasers, and electro-optics, has recently changed its

name to the IEEE Photonics Society. The new name reflects the widening community and expanding applications associated with the Society's fields of interest. Our chapter was active this year in the organization of the IEEE Sarnoff Symposium. In 2010, we are organizing talks from several IEEE Distinguish Lecturers. The first lecture, "Hybrid Optical Sensors for Extreme Temperature Measurement in Next Generation Higher Efficiency Greener Power Plants", from Prof. Nabeel A. Riza, from the College of Optics and Photonics/CREOL, Univ. of Central Florida, will be held in March (exact date and place TBA).

Broadcast Technology Chapter

Joe Stack

Two meetings were held in December. On Dec. 8 at the Busch Campus at Rutgers University, Dr. Zoran Miljanic

spoke about "SOC Evolution for the Communications Market", which was a joint meeting with the SSCS Chapter. Run-time control of computing resources, interconnections and memory organization were presented as the 3 key considerations of SoC design.

Bell Labs, Murray Hill, NJ, hosted another BT meeting Dec. 17, where BTS Distinguished Lecturer Dr. Hsiao-Chun Wu spoke on "Sequence Design for Transmitter Identification and PMEPR (Peak-to-Mean-Envelope-Power Ratio) Technologies." The talk explained how telecommunications engineers can control these parameters for best performance for Tx-ID and controlling peak-to-mean power ratio.

Membership Development

with Application Specific Seminars

Princeton Section, IEEE by Craig M Wentzel (38 Year IEEE Member) 12-06-09 craigwentz@prodigy.net

In the past 18 months I have had the opportunity to attend and participate in a wide range of seminars sponsored by our local chapters engineering groups. We have invited speakers from within or outside the region that are experts in their fields. We have used the college or university setting as the primary environment to attract students as well as general membership to meet and listen to these experts. Various locations that were particularly successful, where participation exceeded at least 30 members or possible new members, included DeVry University, Princeton University, Rutgers University, and The College of New Jersey.

Positive responses are attributed to the level of interest based on topic, the efforts of local IEEE student chapter members, and the student chapter professor sponsors, and of course, the enticements to increase participation. These enticements can be as simple as free food and refreshments, first year membership sign-up incentives, and student trip report requirements pertaining to the relevant technology that a student is taking during his/her curriculum studies. The choice of dates and times are paramount, since the student or general member is always short on time. The College of New Jersey uses Wednesday as the day for students to participate in extra-curricular activities such as clubs and special sporting events. Using constant reminders and postings through multiple sources such as posters, emails and in-class reminders seems to work best.

Topic areas that are personally interesting include 4G communications, SDR, cognitive radio and spectrum allocation. Geographically we have a large pool of technical talent working on these topic areas in academia and industry. I am personally involved in two different 4G companies as part of my consulting and investments activities. The 4G communications area with the evolving standards for WiMAX and LTE is presently hot, and will continue to be so for at the next 15 years to satisfy the demands of ever increasing customer application plug ins requiring more bandwidth and flexibility. The commercialization of such systems is just beginning to emerge. I have had the pleasure to work with Dr. Yaqub Raziq of Telecordia to make sure that he gets the forum he needs. Yaqub has presented multiple technical teaching seminars this year. Recently he made his second lecture as part of (what I hope will be) a series of evolving technical seminars at The College of New Jersey. The local active supporters to get this activity into high gear included Professor Allen Katz, Dr. Orlando Hernandez, Walter Curtice (IEEE Fellow), and Brian Carrigan (IEEE Student President) and of course the ever-present Habib Ahson.

Charles P. Rubenstein, Ph.D., CEng
Region 1 director 2010-2011
c.rubenstein@ieee.org

Happy New Year 2010!

As we end 2009 and the celebration of IEEE's 125th year of Engineering the Future, we can also point back to the origins of Region 1 "The Center of Technology" in 1963. Some of our Life members may recall that our predecessor organizations, the AIEE and IRE, were divided into geographical and technical units giving rise to the current IEEE dual structures of the Member and Geographical Activities and the Technical Activities Boards (MGA and TAB). Forty-seven years ago when IEEE was created, the eight northeastern states and 22 Sections that we now proudly point to as

IEEE Region 1 were defined.

IEEE is all about giving back to the profession. While you are at one of the many events you are enjoying as a spectator, seek out one of the event organizers and ask how you can help. You will no doubt be invited to the next planning meeting and be given a small job to do and the training needed to get the job done. Some tasks can be done in a few hours, others may take longer, but when the event comes you'll be able to claim you helped volunteer to make it happen.

What jobs are available? There are individual event jobs, positions at the local technical chapter level managing one or more events, and even at the section level that all come with the satisfaction that you have given back to our profession. The only catch is that you will very likely become addicted to volunteering

and the satisfaction of meeting and working with like-minded IEEE members to provide the profession with opportunities that might otherwise be cost-prohibitive to most of us. You may develop the IEEE volunteer virus, an infection that you will happily pass on to others, and in doing so see them grow in their field of interest and in leadership skills.

Volunteerism is the engine that makes the IEEE run. Be part of the engine. Let's make 2010 the beginning of your enhanced IEEE experience. If you need help getting started, contact me at c.rubenstein@ieee.org and I will do all I can to help match your background with IEEE's needs and prime your volunteerism so you, too, can help advance our profession and increase the benefits we provide to all our members.

Message from Professor Durga Misra, Southern Area Chair, IEEE Region 1

As the Southern Area Chair I am proud of the activities Princeton Central Jersey Section has been involved for its members during last two years. 2009, in particular, has been a tremendous success for Princeton Central Jersey Section. It started with the unprecedented event, the "Southern Area Industry Day." With the dedicated service of many volunteers from Princeton Central Jersey Section including the Section Chair Mr. Ashutosh Dutta, who took the leadership role. The success of this event benefited the entire Southern Area. In addition, the success of IEEE Sarnoff Symposium this year, as a major International Conference brought enormous visibility among the technical community throughout the world as well as for the Princeton Central Jersey Section.

Volunteer recruitment and empowerment is the key for the success of the section. With the addition of new chap-

ters like LEOS, BT, SSC, and WIE Chapter, recruitment of new IEEE volunteers seems to be in a full swing. Organizing IEEE technical meetings at different universities (e.g., Rutgers, Princeton, DeVry, TCNJ, and Middlesex Community College) within the section not only enhances the volunteer recruitment it also provides direct benefit to the members. Additionally, student participation within the section has increased because of many such innovative steps and sponsorship of student projects. Active participation of industry was also achieved when Telcordia Technology of Princeton Central Jersey Section received the 'Friends of IEEE award' from Member and Geographical Activity Board of IEEE. Milestone award for TIROS satellite was also possible because of support from the management of Sarnoff Corporation.

Sister section relationship of Princeton Central Jersey Section with IEEE Banga-

lore Section (India) continued to be vibrant this year. The achievements of the section did not go unnoticed. Members of Princeton Central Jersey Section received several IEEE Region 1 Awards. This year the most prestigious award from the Member and Geographical Activity Board of IEEE was received by the Section Chair, Ashutosh Dutta for his continued and sustained leadership.

In summary, I believe Princeton Central Jersey Section's contribution has significantly enhanced the effectiveness of IEEE to its membership and in general, to the public. The section leadership has laid down a solid foundation for future volunteers to take the section to new heights and bringing the industry and academia closer to an IEEE member. I am looking forward to working with the section for next two years as the Southern Area Chair during my second term. I wish all members and volunteers a very happy and prosperous new year - 2010.

IEEE-USA

IEEE-USA's Senior Legislative Representative for Grassroots Activities, Russ Harrison, spoke on October 29 for a discussion on the intersection between public policy and engineering. His presentation, "How to get Congress to give you 240 Billion Dollars", was recorded and is available at IEEE TV.

33rd IEEE SARNOFF SYMPOSIUM

Princeton, New Jersey

April 12-14, 2010

Sarnoff 2010

Volume 1, Issue 1

For another year the IEEE-PCJS Chapter is organizing the Sarnoff Symposium. The Symposium will be held again in Princeton NJ, in the Nassau Inn, from April 12-14th, 2010. This year we had over 177 submissions from around the world which again shows the preference of the authors in our Symposium. The review process has started and the final selection of papers will be finalized in January. As was done in the previous years we will organize several tutorials on the first day of the Symposium, and two panels on the second day. The Industrial panel will have the focus of "Green Techniques for Communications" and is organized by Prof. Cristina Comaniciu from Stevens University. The panel will be very interesting covering the challenges and opportunities in the near and far future. In addition a special invited session in "Bioinspired Communication and Applications" is organized. This field is currently very "hot" with a lot of interest from funding agencies. Finally, at the time of this publication, the technical committee is reviewing possible speakers for the plenary, the conference reception and the lunch time talk. The committee is open to suggestion from the local members for additional events, activities, talks that may be of interest to our community. For any suggestions please contact sarnoff.symposium@ieee.org.

For more information and updates on the 33rd IEEE Sarnoff Symposium please visit www.sarnoffsymposium.org

The General Conference Chairs - Nicholas Madamopoulos & Ajay Rajkumar

Sarnoff 2009 was a huge success -

not only because it brought top researchers together from all over the world for exchange of ideas — it provided a chance for collaboration and promoting advancements in technology and moreover in quality of life.

Sarnoff 2009 Summary

Since 1978 the IEEE Sarnoff Symposium has been bringing together a tremendous and rich diversity of telecom experts from industry, universities, and government. The popularity of the Sarnoff Symposium, again held from March 30th to April 1st, 2009 in the historic Nassau Inn located in the heart of downtown Princeton, continued to grow as the premier forum for researchers, engineers, and business executives in the North East drawing a participation from all over the world. There were 24 technical sessions, which included 4 technical sessions with invited papers from world famous researchers on network security, wireless systems and microwave photonics. Sarnoff 2009 also gives students the opportunity to present their work through a session entirely dedicated to student paper poster presentations. Executive military and commercial panels, exhibitions and tutorials that covered a diverse array of topics were held at the symposium as well. Besides the technical paper presentations, world famous researchers were invited as keynote speakers, including:

"Optical Networks - A View into the Future", *Rod C. Alferness*, Chief Scientist, Bell Labs, Alcatel-Lucent.

"Mobile Data - Fast and Furious", *Nicholas Karter*, Senior Director of Global Business Development and Product Management at Qualcomm – Flarion Technologies.

"Networking - Civil engineering for the 21st century", *Henning Schulzrinne*, Chairman and Professor of Computer Science Department Columbia University, New York.

The success and realization of the conference was the result of our sponsors: Telcordia, Qualcomm, RFID, Verizon, Princeton University and IEEE (IEEE PCNJ, IEEE LEOS, IEEE MTT-S, IEEE APS, IEEE EDS, IEEE COMSOC) and the volunteering and relentless work of the organizing committee.

By Sarnoff 2009 Conference Co-chair, Kyriakos Manousakis, Telcordia Technologies

Upcoming Events

Princeton ACM/EEE Computer Society

Thursday Jan. 21 - "The P vs. NP Problem: Efficient Computation, Internet Security, and the Limits to Human Knowledge", Avi Wigderson, Institute for Advanced Study.

Feb. 21 - "Database Modernization: Past, Present, and Future," Prakash Nauduri, Oracle Corp.

LOCATION = Computer Science Building at Princeton University (the new home location for Princeton Chapter meetings)

A pre-meeting dinner with the speaker is held at 6:00 p.m. at Ruby Tuesday's Restaurant on Route 1. Please send email to princetonacm@acm.org in advance if you plan to attend the dinner.

2010 Section Officers

Chair

Vice Chair

Treasurer

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Membership Development

Awards & Recognition

Electronic & Communications Chair

Webmaster

Webmaster

Webmaster - Intern

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Newsletter Team - Editor

Newsletter Team - Editor

Educational Activities

Professional/Career Activities (PACE)

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Sr. Past Chair

Sr. Past Chair & Nominations / Appointmnets

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Education Society Chapter Chair

SP Chapter Chair

SP Vice Chair

SP Vice Chair

Solid-State Circuits Society Chapter Chair

Vice Chair

Women in Engineering Affinity Group Chair

Student Activity Chair

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Kevin Martin

Aileen Cheng

Orlando Hernandez

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IEEE PCJS Newsletter

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For complete list of 2010 section officers please click.

http://ewh.ieee.org/r1/princeton-centraljersey/EXCOM_members.htm

Want to advertise a job in this newsletter? Send an email to pcjs-newsletter@ieee.org!

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