



THE IEEE NORTH JERSEY SECTION NEWSLETTER

Vol. 58, No.2

MAY 2011

In this issue

- Calendar of Upcoming Meetings and Events
- Announcements
- Meetings and Upcoming Events
- North Jersey Annual Awards Reception
- 2011: North Jersey Section Roster

Calendar of Upcoming Events and Section Activities:

- May 17, 2011: IEEE Region1, Southern area and METSAC present: IEEE Innovation Day: 8 AM To 5 PM, Polytechnic Institute of New York University, Pfizer Auditorium, Brooklyn, New York
- May 19, 2011: IEEE Consultants' Network of Northern NJ present: A talk on Federal Tax Credits: 7PM To 9.30PM, Olive Restaurant @ Parsippany Hilton, One Hilton Court, Parsippany, NJ 07054, Contact Robert Walker at 973-728-0344
- June 01, 2011: North Jersey Section Excom Meeting 06:00PM to 08:45PM, Clifton Public Library - Allwood Branch, Activity Room, 44 Lyall Road, Clifton, New Jersey 07012 Contact: Library Number: (973) 471-0555
- June16, 2011: Improvability Theory for Hospital Emergency Department: A System-Theoretic Approach to Reduce Crowding Contact: Dr. Mike Liechenstein (973-471-0721) E-Mails: ITSMIKESJU@AOL.COM or ZHOU@NJIT.EDU

Announcement: The College of Computing Sciences at NJIT announces a new Master's program in Cyber Security and Privacy:

A new program offered by the Department of Computer Science at NJIT
Starting: Fall 2011

The new program will train students in all aspects of cyber security, responding to a demand for cyber security specialists that is expected to grow rapidly over the next decade in both public and private sectors.

Graduates of the program will have a strong foundation and detailed technical knowledge in security, privacy, and cryptography applied to computer systems, networks, and web applications.

For more information, please visit:

<http://cs.njit.edu/academics/graduate/mscsp.php>

For details of events please visit:

http://webinabox.vtools.ieee.org/wibp_calendar/index/R10327

Meeting Announcements:

May 17, 2011

IEEE R1, Southern Area Sections and METSAC

present:

IEEE Innovation Day

This conference will tackle how innovation is the revival engine of all professionals, all industries and the very fabric of the economy. Thought leaders will share what it means to innovate throughout the technology world.

Innovation is now a global reality. You may be local, but the problems are all over. Listen to subject matter experts explain how innovation in an era of globalization can generate win-win value.

If your idea of professional advancement is a dusty resume and a weak handshake, then you need to hear our panel explain how innovation in professional development has changed and what you can do to take responsibility of your career. All this and a chance to network with your peers, meet people from new and varied industries, academic institutions and government. The best part, it's free for unemployed IEEE members and Life members and non-members can choose to apply registration cost towards IEEE membership options. You may also be eligible for CEU credits by attending this event.

Location: Polytechnic Institute of New York University, Pfizer Auditorium, Brooklyn, New York

Time: 08:00AM to 05:00PM

Contact: Please Visit Committee at

http://ewh.ieee.org/reg/1/innovation_day/index.html

Lunch, refreshment breaks, and evening reception included.

All are welcome.

For more details and registration please visit:

http://ewh.ieee.org/reg/1/innovation_day/index.html

May 19, 2011

IEEE Consultants' Network of Northern NJ

present: A talk on Federal Tax Credits

By: Phillip Drudy

Abstract: Phil Drudy, a Member of the Firm of Smolin Lupin & Co, PA, will speak on the current state of Federal Tax Credits and how businesses can benefit from them. Specifically, Phil will discuss the benefits of assisting clients and firms in the utilization of Research and Development Expenditure credit. Also, Phil will discuss the changing horizon of the various energy credits and special deductions as well as the current federal and state mandates.

Finally, Phil will open a discussion on how IEEE members can position themselves to generate business with accounting firms.

Biography Philip Drudy is a licensed CPA in New York, a Juris Doctor graduate of Brooklyn Law School, and has been practicing public accounting since 1981. He has worked for national, regional and Big Four firms and is currently a Member of Smolin Lupin & Co, PA, offering his substantial expertise in many aspects of tax law, including representation in front of the IRS, complex corporate compliance and structuring, and succession planning. He is a recognized speaker and writer on various business tax topics, including energy credits and going green.

He can be contacted at Smolin Lupin headquarters in Fairfield, NJ at 973-439-7200. Smolin Lupin (www.smolin.com) is a full service public accounting firm with offices in New Jersey and Florida, providing accounting, audit, and tax and consulting services.

ALL ARE WELCOME!

Location: Olive Restaurant @ Parsippany Hilton, 973-267-7373, One Hilton Court, Parsippany, NJ 07054

Directions: www.parsippany.hilton.com

Time: 7PM to 9:30 PM

Refreshments: Dinner: 7:00-8:15 PM

Contact: Robert Walker, 973-728-0344 or

Please visit: www.TechnologyOnTap.org

For more details and registration please contact:

Robert Walker at: r.d.walker@ieee.org or 973-728-0344.

RSVP for dinner by Sunday, May 15.

Late registrants will be accommodated only if space permits.

DINNER: \$ 30 per person

MEETING PARTICIPATION: Free

Members and non-members are welcome.

June 01, 2011

North Jersey Section Excom Meeting

Location: Clifton Public Library - Allwood Branch

Activity Room, 44 Lyall Road, Clifton, New Jersey 07012

Contact: Library Number: (973) 471-0555

Time: 06:00PM to 08:45PM

Complimentary buffet dinner followed by normal meeting agenda both in the main activity room.

Section Business Discussion/Planning for all chapters, groups, committee chairs

All are welcome.

For more details and registration please visit:

http://meetings.vtools.ieee.org/meeting_view/list_meeting/4601

June 16, 2011

IEEE North Jersey Section Systems, Man & Cybernetics Society present:

Improvability Theory for Hospital Emergency Department: A System-Theoretic Approach to Reduce Crowding

By: Dr. Jingshan Li

Abstract: Hospital emergency departments (ED) across the US are overcrowded. The number of EDs is decreasing, while patient volume is rising. Overcrowding not only results in delayed treatment, long patient waiting time and stay, overburdened working staff, patient elopement and low throughput, it also leads to many other problems, such as medical errors due to overloading, high turnover, diverting of ambulances, etc. In addition, overcrowding also has a significant financial implication. Therefore, analyzing the patient flow in ED to minimize length of stay, improve efficiency and reduce crowding is necessary and important. This talk is devoted to introducing an analytical framework for ED modeling and analysis to improve its efficiency and reduce crowding. In parallel to production systems, we intend to develop an improvability theory for ED operations. Specifically, a system-theoretic approach is proposed to evaluate ED performance in terms of patient outcomes, identify system bottlenecks and redistributing limited resources optimally, and determine optimal workforce configuration and resource allocation to achieve desired performance. This talk will briefly introduce the preliminary results on analyzing care delivery services within the patient rooms, where the patients receive most of the services and spend most of their length of stay. A Markov chain model is introduced to evaluate the patient length of stay and staff utilization with multiple re-entrant care services under limited resources.

Biography: Dr. Jingshan Li is an Associate Professor of Industrial and Systems Engineering in University of Wisconsin at Madison. He was an Assistant Professor of Electrical and Computer Engineering, University of Kentucky, Lexington, KY from 2006 to 2010, and a Staff Researcher in General Motors Research & Development Center, Warren, MI from 2000 to 2006. He received BS from Dept. of Automation, Tsinghua University, Beijing, China, and MS from Institute of Automation, Chinese Academy of Sciences, Beijing, China, and PhD in Electrical Engineering – Systems, University of Michigan, Ann Arbor, MI in 1989, 1992 and 2000, respectively. Dr. Li is the co-author of the textbook *Production Systems Engineering* (Springer, 2009), and he co-edited the book *Advances in Systems Theory: Control, Communication Networks, Production Systems and Rational Behavior* (WingSpan Press, 2009). To date, he has published more than 40 refereed journal articles, 4 book chapters and

60 conference proceedings. He is the Department Editor of IIE Transactions – Design and Manufacturing, Lead Guest Editor of special issue on “Automation in Green Manufacturing” in IEEE Transactions on Automation Science and Engineering, special issue on “Integration of Production Systems and Quality Management” in IIE Transactions. He was the Associate Editor of IEEE Transactions on Automation Science and Engineering and Mathematical Problems in Engineering, and Lead Guest Editor of special issue on “Automation in Automotive Manufacturing” of IEEE Transactions on Automation Science and Engineering. He received NSF CAREER Award (2010-2015), the 2009 IIE Transactions Best Application Paper Award – Design and Manufacturing, 2005 IEEE Transactions on Automation Science and Engineering Best Paper Award, 2006 IEEE Early Industry/Government Career Award in Robotics and Automation. His paper on simulation of emergency department was among the “Top 25 Hottest Articles in Journal of Emergency Nursing,” July-September, 2010. His primary research interests are in design, analysis and control of production and health care systems. His research has been supported by NSF, General Motors, Central Baptist Hospital, University of Kentucky Hospital, DOE, UKRF, SME, and WARF.

All Welcome!

You need not be a member of IEEE to attend, and there is no charge for admission. Light refreshments will be served starting at 6:45 PM.

Location: New Jersey Institute Technology
ECEC-202, 161 Warren Street, Newark, NJ 07102

[Click here for Map](#)

Time: 07:00PM to 08:30PM

Contact: Dr. Mike Liechenstein (973-471-0721) or

E-Mails: (ITSMIKESJU@AOL.COM or ZHOU@NJIT.EDU)

For more details and registration please:

Please RSVP and check the website for any changes.

IEEE NORTHERN NJ SECTION HOME PAGE

<http://www.ieee.org/go/njsection>

North Jersey Section Hosts Annual Award Reception

The IEEE North Jersey Section held its annual Award Reception on May 1, 2011 at the Birchwood Manor, Hanover, NJ. The event, attended by 51, started with a welcome address by Dr. Naresh Chand, Section Chair, followed by some general remarks by Dr. Charles Rubenstein, the Region 1 Director. The following awardees were recognized.



L-R: Dr. Charles Rubenstein, Region 1 Director, congratulates new Fellows Dr. Indra Widjaja, Dr. Alice White, Dr. Naresh Chand, Section Chair, Dr. Piyush Gupta, Dr. Vinay Vaishampayan, and Prof Yu-Dong Yao.

Two other new Fellows: Dr. Qi Bi, and Dr. Tao Zhang, unfortunately, could not be present.



L-R: Dr. Charles Rubenstein, Region 1 Director, congratulates Region 1 award recipients: Dr. Naresh Chand, Section Chair, Stephen Wilkowski, and Dr. Chandra Gupta



L-R: Michael A. Miller, representing the Power and Energy Society, presents the Outstanding Engineer Award to Ronald Quade with the citation "For outstanding leadership and contributions in advancing the continuing education of engineers in electric power system technologies and energy efficiency programs."



Dr. Charles Rubenstein, Region 1 Director, in center, congratulates Richard Tax, on left, and Paul Ward, on right, on winning the Region 1 Alex Gruenwald PACE Award with the citation, "For hosting a wide range of effective PACE programs supporting the professional and continuing education of IEEE members in Region 1".

2011 IEEE North Jersey Section

Region 1 – Area Volunteers

Southern Area

Chair - Durga Misra,
dmisra@njit.edu

Metsac Society

Chair - Kirit Dixit
kdixit@ieee.org

Section Volunteers

Executive Committee

Chair - Naresh Chand
chandnaresh@gmail.com

Vice Chairman - 1 - Russell Pepe
rcpepe@ieee.org

Vice Chairman - 2 - Har Dayal
dayalhar@gmail.com

Secretary - Mengchu Zhou
zhou@njit.edu

Treasurer - Paul E Ward
peward@ieee.org

Members at Large

1. Jignasa Ray
jjignasa.ray@ieee.org
2. Adriaan Van Wijngaarden
avw@ieee.org
3. Chris Peckham
cdp@ieee.org

Junior Past Chair - Amit Patel
a.j.patel@ieee.org

Senior Past Chair - Kirit Dixit
kdixit@ieee.org

Society/ Chapters/ Chair

Aerospace Electronic Systems Society

Chair - Chandra Gupta
c.gupta@ieee.org

Co-Chair - Naresh Chand
chandnaresh@gmail.com

Vice-Chair - Radhasree Mohanty
rmt@ieee.org

Antennas and Propagation Society

Chair - Har Dayal
dayalhar@gmail.com

Microwave Theory and Technical Society

Chair - Kirit Dixit
kdixit@ieee.org
dmisra@njit.edu

Vice – Chair - Ajay Poddar
akpoddar@synergymwave.com

Circuits and Systems Society

Chair - Durga Misra
dmisra@njit.edu

Electron Devices Society

Chair - Durga Misra,
dmisra@njit.edu

Engineering in Medicine and Biology Society

Chair - Raquel Perez-Castillejos
raquelpc@njit.edu

Communications Society

Chair - Nirwan Ansari
nirwan.ansari@njit.edu

Computer Society

Chair - Hanna (Hong) Zhao
zhao@fdu.edu

Controls Society

Chair - David Haessig
davidhaessig@ieee.org

Engineering Management Society

Chair - Tony Almeida
almeida@synergymwave.com

Instrumentation Measurement Society

Chair - Russel Pepe
rcpepe@ieee.org
Vice-Chair – Peter J. Pupalaikis
peterp@lecroy.com

Photonics Society

Chair - Haim Grebel
grebel@adm.njit.edu

Power & Energy Society

Chair - Ron Quade
rwquade@ieee.org

Industrial Applications Society

Chair - Ken Oexle
k.oexle@verizon.net

Systems, Man, and Cybernetics Society

Chair - Mike Liechenstein
ltsmikesju@aol.com

Signal Processing Society

Chair - Yun Q. Shi
shi@njit.edu

Vehicular Technology Society

Chair - Yu-Dong Yao
yao@stevens.edu

Affinity Group Chair

Consultants Network

Chair - Peter Schutz
schutz@compuserve.com

GOLD

Chair - Lawrence Yang
yangl@ieee.org

Women In Engineering

Chair - Zhiwei Mao, zmao@fdu.edu
Vice-chair - Radhasree Mohanty
rmt@ieee.org

LIFE Members

Chair - Art Greenberg
a.h.greenberg@ieee.org

Committee Volunteers

Awards/Recognition

Chair - Ken Oexle
k.oexle@verizon.net

Education

Co-Chair - Donald Hsu
yanyou@hotmail.com
Co-Chair - Kalyan Mondal
Mondal@fdu.edu

Group coordinator / History

Chair - Howard Leach
h.leach@ieee.org

Membership Development (Interim)

Chair - Victor Bonachea
ybonachea@gmail.com
Vice-Chair (open)

MTT/AP Mini Show / Symposium

Chair - Kirit Dixit
kdixit@ieee.org
Vice-Chair – Har Dayal
dayalhar@gmail.com
TPC Chair – George Kennall
gkk@lgsinnovations.com

Nominations

Chair - Kirit Dixit
kdixit@ieee.org

Newsletter

Chair - Anisha Apte
anisha_apte@ieee.org

PACE

Chair - Richard Tax
rtax@verizon.net

Pre-College Activities

Chair - Har Dayal
dayalhar@gmail.com
Vice-Chair – Hitaish Sharma
hitaish@gmail.com

Student Activities

Chair - John C Taylor
john.taylor86@live.com

Audit Committee Chair

Chair - Fred Chichester
fdchichester@gmail.com