IEEE Advancing Technology for Humanity

THE IEEE NORTH JERSEY SECTION NEWSLETTER

Vol. 58, No.1 *APRIL 2011*

For a list of IEEE North Jersey Section activities: http://www.ieee.org/go/njsection

In this issue

Chairman's note

Presently we are witnessing another major revolution in information and communication technologies (ICT) where the primary emphasis is on **CONVERGENCE** from multiple directions, involving:

1. Convergence and scalability of IT and telecom industry with common standards
2. Convergence of broadband wireline and wireless networks
3. IP as a universal convergence service layer
4. Evolution of Carrier Grade Ethernet as a convergence solution for transport in the next generation global networks
5. Transition to connection oriented point to point Ethernet using
   a. Scalable & secure carrier grade Ethernet
   b. Transport centric operation
   c. Connection based traffic management with resource reservations
6. A new industry of content providers
7. Everything in cloud
8. Emergence of a Gigabit Society:
   a) ***A mobile*** broadband network that is all IP
   b) All intensively use tablets and smart phones
   c) All store their content in the cloud
   d) Stream all their content: ***content is a click***
   e) All use VoIP
   f) All roam freely everywhere
   g) All pay for everything as a bundle
   h) All use net based TV
   i) Most will share their life and work with others
9. Energy efficient Green Networks
10. Green networks may not necessarily be revolutionary, but revolutionary networks must be green.

These emerging trends will require more and more innovations and continue to challenge engineers and their job securities. If Lord created the universe, engineers continue to perfect it, often at their own costs which have reduced the life of engineers significantly. IEEE has been addressing these issues by providing multiple resources for career managements, continuing e-learning and education, among others. Your local North Jersey Section is also trying to address these challenges by bringing to you talks, tutorials and educational courses on the state-of-the-art of technologies. We use this newsletter to advertise these events for your benefits. Since the trend is that everything is in cloud and the content is click, we are putting event full details on our website which you can get with a click. If you intend to attend an event, we ask you to register so that organizers can inform you of any change, and order sufficient food for everyone with minimum wastage. We request your suggestions and feedback to improve our performance. We also ask you to volunteer your services to your professional community. Anything that is not given is lost.

Naresh Chand
Section Chair

Meeting Announcements:

April 20, 2011

Circuits and Systems Society presents

Timing Devices - Current Trends, Emerging Technology and Challenges

By: Ajay K. Poddar, Synergy Microwave Inc., NJ

Abstract: This talk reports the current trends, emerging technology and challenges associated with Timing Devices for the applications in current and later generation communication systems. Solutions that are gaining more popularity such as MEMS, OEO, and synthesized active inductor based timing devices are described for completeness, including CAD simulation and practical examples.

Biography: Dr. Ajay K. Poddar is a Chief Scientist, responsible for design and development of state-of-the-art technology (oscillator, mixer, amplifier, filters, and MEMS based RF components) at Synergy Microwave Corporation NJ, USA. He holds 42 US and European patents and has published more than 170 scientific papers in international conferences and professional journals, contributed as author and coauthor of five technical books.

Location: New Jersey Institute Technology
ECEC-202, 161 Warren Street, Newark, NJ 07102
Click here for Map
Time: 06:00PM to 09:00PM
Contact Dr. Durga Misra (973) 596-5739 (dmisra@njit.edu) or Dr. Edip Niver (973) 596-3542 (NJIT)
For more details and registration please visit:
http://meetings.vtools.ieee.org/meeting_view/list_meeting/6193

April 21, 2011

Computer Society with School of Computer Sciences and Engineering, FDU, present:

Learning and Mining on Complex Networks

By: Dr. Tina Eliassi-Rad, Rutgers University

Abstract: Complex networks are ubiquitous in many domains. Examples include technological, informational, social, and biological networks. In this talk, I will present algorithms for both relational classification and clustering in such networked data. I will pay special attention to issues surrounding scalability, sparsity of labels, various levels of relational dependency, and performance consistency across assorted domains.

Biography: Dr. Tina Eliassi-Rad is an Assistant Professor of Computer Science at Rutgers University. Until September 2010, Tina was a Member of Technical Staff and Principal Investigator at Lawrence Livermore National Laboratory. Dr. Eliassi-Rad earned her Ph.D. in Computer Sciences (with a minor in Mathematical Statistics) at the University of Wisconsin-Madison in 2001. Broadly speaking, Dr. Eliassi-Rad's research interests include data mining, machine learning, and artificial intelligence. Her work has been applied to the World-Wide Web, text corpora, large-scale scientific simulation data, complex networks, and cyber situational awareness.

Location: Auditorium M105, Muscarelle Center
Fairleigh Dickinson University Teaneck, New Jersey 07666
Click here for Map
Time: 05:30PM to 07:20PM
Contact:. Hong Zhao (201)-692-2350, zhao@fdu.edu;
Howard Leach h.leach@ieee.org
For more details and registration please visit:
http://meetings.vtools.ieee.org/meeting_view/list_meeting/5875

April 21, 2011

MTT/ AP/The Metropolitan Area Sections Activities together with NJIT present:

The Application of Vector Network Analyzers in Balanced Transmission Line Signal Integrity Measurements

By: Dennis Poulin, Anritsu Company

Abstract: The transmission line characteristics of the balanced interconnect networks used in high speed digital systems have a major impact on the digital signal quality or integrity of the digital signals. The traditional instruments used for characterizing transmission lines are Vector Network Analyzers (VNA) and Time Domain Reflectometers (TDR). Since most commercial test equipment has single ended test ports, some means of converting from single ended to differential transmission lines must be utilized. This is accomplished on a VNA through either the use of a balun transformer or the use of a multiport testset on the VNA. The advantages and limitations of both approaches will be analyzed.

Biography: Dennis D. Poulin (S'76-M'77) received the B.S.E.E. and M.S.E.E. degrees from the Massachusetts Institute of Technology (MIT) in 1977. He initially joined Hewlett Packard, Microwave Technology Center, Santa Rosa, CA in June of 1977 and has been heavily involved in RF and Microwave characterization and measurement techniques throughout his career. He has done extensive work on large signal device characterization and nonlinear modeling. He is the original creator of the large signal measurement techniques of "Real Time Load Pull"(1979), "Harmonic Load Pull(1979)", "High Gamma Active Tuners(1979)" and "Non-interactive Harmonic Tuners(1979)". He has published several papers on load pull measurements as well as other large signal characterization techniques.

Location: New Jersey Institute Technology, ECE 202
164 Warren St Newark, New Jersey 07102
Time: 06:00PM to 08:00PM (2.00 hours)

Contact: Dr. Edip Niver, NJIT (973-596-3542), Kirit Dixit (201-659-7599), Har Dayal (dayalhar@gmail.com)
Directions: Go to http://www.njit.edu
For more details and registration please visit:
http://meetings.vtools.ieee.org/meeting_view/list_meeting/6129

April 26, 2011
Instrumentation and Measurement Society presents:
Safety Considerations for Smart Grid Technology Equipment

By: Don Gies

Abstract: One of the biggest frontiers in electrical engineering in this early part of the 21st century is the development and implementation of smart grid technology. Development of greener technologies and alternative fuels has become a global economic priority, so smart grid technology has the potential to be one of the next great technological waves.

Biography: Don Gies has been a product compliance engineer for over 25 years. Since 1989, Mr. Gies has worked at AT&T-Bell Laboratories, Lucent Technologies/ Alcatel-Lucent as a product safety engineer, responsible for obtaining product safety certifications for his company's telephone and information processing equipment from domestic and international product safety organizations.

Location: New Jersey Institute of Technology (NJIT)
ECE 202 (Intersection between Warren & Summit Streets)
Newark, New Jersey 07102
Click here for Map
Time: 06:00PM to 09:00PM (3.00 hours)
Contact: Russell C. Pepe, 201-960-6796, rcpepe@ieee.org
For more details and registration please visit:
http://meetings.vtools.ieee.org/meeting_view/list_meeting/5977

April 27, 2011
IEEE Aerospace & Electronics Systems Society presents:
GreenTouch®: A Five Year Quest for Sustainable Networking

By: Dr. Suresh Goyal of Bell Laboratories, Alcatel-Lucent, Murray Hill, NJ 07974

Abstract: GreenTouch® is a global research consortium, formed under the initiative and leadership of Bell Labs, with the goal of inventing sustainable, ultra-energy-efficient, ICT networks. In particular it aims to demonstrate technologies in five years (at the end of 2015) that could make the network a thousand-times more energy efficient in 2020 over a baseline network energy efficiency of 2010.

Biography: Dr. Suresh Goyal leads the Green Research theme at Bell Labs involving cross-domain research on sustainable networks and energy-efficiency enablement. Bell Labs' green research involves more than a hundred researchers and a large number of external collaborators. Suresh led the Bell Labs research teams that performed the analyses leading to the formation of GreenTouch®.

Location: BAE Systems, 164 Totowa Road, Wayne, NJ 07474.
Free buffet dinner at 6:00 PM
Time: 7:00 PM to 8:30PM
Contact: Dr. Naresh Chand at **(908) 644-6089**
chandnaresh@gmail.com
For more details and registration please visit:
http://meetings.vtools.ieee.org/meeting_view/list_meeting/5961

April 28, 2011
WIE, S-PAC and PACE present:
Globalization and Your Career: Successful Careers in Science and Engineering

By: Dr. Naresh Chand and Edward Perkin

Abstract: The goals of this seminar are to share with you how to help yourself manage/run your career in this era of globalization and selective hiring. You will learn about:
1. Defining and achieving goals of life: short and long terms
2. Changes in the job market and current market requirements
3. How you relate to the market; communicate what employers expect, your business model
4 Networking development; develop your elevator pitch 5. How to craft a winning resume; recasting your accomplishments

Biographies: Dr. Naresh Chand is an IEEE Fellow and Chair of the North Jersey Section, an Engineering and Technology fellow at BAE Systems, Wayne, NJ. Prior to joining BAE Systems in 2003, he was a researcher at Bell Laboratories for 18 years. After his Ph.D. in Electrical Engineering from the University of Sheffield in 1983, he did post-doctoral research at the University of Illinois, Urbana for 2 years.

Edward Perkins has 30 years experience in the electronics industry, including hardware design automation, program and project management, mixed-signal test development automation, design services management, chip architecture development, software development, and real time embedded systems programming. He was a program manager in the Virtual Test Division of IMS in Beaverton, OR, where he was responsible for leading their mixed-signal R&D development efforts. Ed also spent 10 years at Digital Equipment Corporation in the central engineering CAD department where he was responsible for development and deployment of CAE services and support to engineering groups worldwide. He has been an IEEE volunteer for 25+ years. He is a Senior Member of IEEE and is Past Chair of the Oregon Section, Region 6 Membership Chair, and chair of the IEEE-USA Career and Workforce Policy Committee. He

has a BSEE and MSCS from WPI (Worcester, MA) and most recently an MS ECE specializing in VLSI design and test from Portland State University (Portland, OR).

Location: Muscarelle Building M105 Auditorium, FDU Campus, Teaneck, New Jersey 07666
Click here for Map
Time: 06:30PM to 09:00PM
Contact: Dr. Naresh Chand at **(908) 644-6089**
chandnaresh@gmail.com
For more details and registration please visit:
http://meetings.vtools.ieee.org/meeting_view/list_meeting/6375

April 28, 2011
Photonics Society presents:
Substrate-supported Nanotubular Lipid Bilayers for Membrane Protein Biochips

By: Alex Smirnov, North Carolina State University (NCSU)
Abstract: Here we describe a novel type of a hybrid nanostructure - substrate-supported macroscopically-aligned lipid bilayers that are formed by self-assembling phospholipids into nanotubular structures inside ordered nanochannels of anodic aluminum oxide (AAO). Such hybrid structures, which we named lipid nanotube arrays, have many attractive features for membrane biochip technology and biophysical studies of membrane proteins.

Biography: Alex Smirnov received his Ph.D. in Chemical Physics from Moscow Physical Technical Institute, USSR in 1990. He is currently a Prof. of Chemistry in North Carolina State University (NCSU). He was a recipient of the International EPR Society Young Investigator Medal in 1998.

Location: New Jersey Institute Technology, ECE 202
164 Warren St Newark, New Jersey 07102
Time: 05:00PM to 06:00PM
Contact: Prof. H. Grebel
For more details and registration please visit:
http://meetings.vtools.ieee.org/meeting_view/list_meeting/5929

April 28, 2011
IEEE Consultants' Network of Northern NJ present: High-Power Solar Array Emulation

By: Adam Pitel, Magna-Power Electronics

Abstract: The rapidly growing solar energy market demands new solutions for solar array and inverter development and production testing. Magna-Power Electronics designs and manufactures high-power switched-mode programmable DC power supplies from 2 kW to 1 MW+.

Biography: Adam Pitel received the B.S. degree in Electrical Engineering from Bucknell University. He received the M.Eng degree in Electrical Engineering from Princeton University where he researched rapid charge/discharge lithium-ion batteries and high-power rapid charger technologies. Adam joined Magna-Power Electronics as Director of Business Development and is responsible for applications engineering, product marketing, and overseeing sales.

Location: Morris County Library, 30 East Hanover Avenue Whippany, New Jersey
Time: 06:30PM to 08:30PM
Contact: www.TechnologyOnTap.org
Robert Walker, 973-728-0344
For more details and registration please visit:
http://meetings.vtools.ieee.org/meeting_view/list_meeting/6063

April 29, 2011
IEEE North Jersey Section - Power & Energy Society & Industry Applications Society present: Power Factor Correction Technical Seminar

By: Daniel Carnovale, Eaton Corporation

Abstract: The seminar will cover the application of power factor correction solutions with special emphasis on application issues like harmonics and switching transients. In addition, this presentation will uncover some of the unspoken truths about overstated claims with power factor correction equipment.

Biography: Daniel Carnovale, PE/CEM of Eaton Corporation is the Power Systems Experience Center Manager for Eaton's Electrical Group. Dan has developed Eaton's Power Systems Experience Center (www.eaton.com/experience) where PQ problems are created and mitigated for demonstration and testing purposes. He has developed and teaches CEU certified technical seminars on Power Systems and Power System Analysis and he has conducted several hundred Power Quality site investigations for commercial, industrial and utility power systems: evaluating PQ issues and applying solutions.

Location: PSE&G - Hadley Road Facility, 4000 Hadley Road South Plainfield, New Jersey 07080-1192
Time: 09:00AM to 02:00PM
Contact: Ronald W. Quade,
P.E. - (973) 219-8802 or rwquade @ ieee.org
For more details and registration please visit:
http://meetings.vtools.ieee.org/meeting_view/list_meeting/5675

May 03, 2011
Xilinx and Avnet Electronics Parallax Sales present
X-Tech 2011: A Technical Seminar

A FREE, all-day technical seminar, which will explore an array of design topics of interest to hardware and software engineers, as well as system architects
Location: AVNET, 200 Lanidex Plaza, Suite 7 (second Floor) Parsippany, New Jersey, 07054
Contact: Carol Crusi at CCRUSI@PARALLAXSALES.COM or 973-515-1641 or 631-351-1000

Frank Servidio at
Parallax, 140 Fell Court, Suite 302, Hauppauge, N.Y. 11788
Office 631-351-1000, FAX 631-351-1606
Cell: 516-659-8086
Time: 08:00AM to 04:45PM

May 04, 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/4599

2011 IEEE Fellow Elevations:

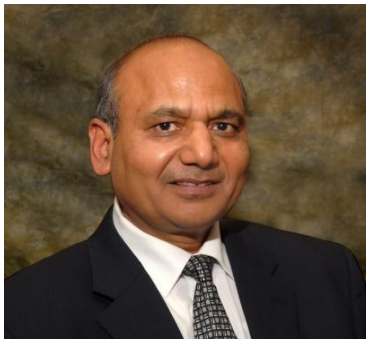
Congratulations to North Jersey Section 2011 IEEE Fellows!

Qi Bi

"For contributions to code division multiple access"
China Telecom Beijing Research Institute, Morris Plains, NJ

Naresh Chand

"For contributions to semiconductor lasers and optical communication systems", **BAE Systems, Wayne, NJ**



Dr. Naresh Chand is an Engineering and Technology fellow at BAE Systems, Wayne, NJ. Prior to joining BAE Systems in 2003, he was a researcher at Bell Laboratories for 18 years. After his Ph.D. in Electrical Engineering from the University of Sheffield in 1983, he did post-doctoral research at the University of Illinois, Urbana for 2 years. His research interests include optical communication systems and networks, broadband data networks, and a broad range of III-V semiconductors based high speed electronic and photonic devices and circuits. He has published over 150 research papers and has 10 patents. He is the Chair of the North Jersey Section of the IEEE and the Chair of the AESS Chapter.

Piyush Gupta

"For contributions to wireless networks",
Bell Labs, Alcatel-Lucent Murray Hill, NJ

Dr. Piyush Gupta is a Member of Technical Staff with the Mathematics of Networks and Communications Research Department at Bell Laboratories, Alcatel-Lucent, Murray Hill, New Jersey. He joined Bell Labs in 2000 after receiving his Ph.D. in electrical and computer engineering from the University of Illinois at Urbana-Champaign, M.S. in computer science and automation from the Indian Institute of Science, Bangalore in 1996, and B. Tech. in electrical engineering from the Indian Institute of Technology, Bombay in 1993. The main focus of his research has been on addressing several aspects of wireless networks--both traditional cellular networks and emerging mesh and sensor networks--including performance analysis issues, such as capacity, connectivity, and energy efficiency, as well as design issues such as distributed resource allocation, adaptive multi-path routing, and network coding. He has over 40 refereed journal and conference publications and has more than 10 granted/pending patents. He has served on the technical program committees of many conferences, including IEEE Infocom and ISIT, and has organized several workshops on wireless networks and information theory.

Vinay A. Vaishampayan

"For contributions to error-resilient compression systems"
AT&T Labs, Research Florham Park, NJ

Dr. Vinay A. Vaishampayan was educated at the Indian Institute of Technology, Delhi, where he received the BTech degree in Electrical Engineering in 1981. He then worked for several years for Schlumberger Wireline, before continuing his education at the University of Maryland, where he

earned the MS and PhD degrees in EE in 1986 and 1989, respectively. In 1989, he joined Texas A&M University as Assistant Professor of EE, earned Tenure and was promoted to Associate Professor in 1996. In 1996, he moved to the newly formed AT&T Labs-Research, where he is now a distinguished Member of Technical Staff. His research interests are in the mathematical aspects of communications and signal processing and he has contributed significantly to the design of error resilient data compression systems, for which he has been cited for this award. He has also contributed to the design of optical network systems, to understanding the fundamental limits of communication both for single user and multiple user systems, and to understanding and improving depth estimation algorithms in stereo camera systems. At AT&T Labs-Research, he is currently working on methods to improve the quality of wireless cellular networks.

Alice E. White

"*For leadership in development and commercialization of integrated silicon optical components for communication networks*", Vice President, Bell Labs North America, Alcatel Lucent, Murray Hill, NJ

Alice E. White is Vice President, Bell Labs North America, the largest research location of Alcatel-Lucent. She has a PhD in physics from Harvard University and a broad technical background in experimental solid state physics and fabrication of optical components. Since 1989, she has held various leadership positions at Bell Labs including Director of Materials Physics Research, Director of Integrated Photonics Research, and VP of the Physical Technologies Research Center. In 1991, she received the Maria Goeppert-Mayer Award of the American Physical Society for her work on compound formation using ion implantation. In 2001, she was named a Bell Labs Fellow for her work in "developing and applying novel integrated photonic device technologies in advanced optical networks". From 2004-2007, she was PI on the DARPA program EPIC (Electronic-Photonic Integrated Circuits), in which optical circuits were created on a commercial CMOS platform. In 2008, with the merger of the former Lucent and former Alcatel research organizations, she assumed the role of location leader for the Bell Labs locations in North America. She has over 125 refereed publications and is also a fellow of the American Physical Society.

Indra Widjaja

***"For contributions to switching and traffic engineering in communication networks"*, Bell Labs, Alcatel-Lucent, Murray Hill, NJ**

Dr. Indra Widjaja a Fellow of IEEE received his B.A.Sc. degree from the University of British Columbia, M.S. from Columbia University, and Ph.D. from the University of Toronto, all in electrical engineering. He has more than 15 years of experience in computer and communication networking. From 1994 to 1997 he was an assistant professor of electrical and computer engineering at the University of Arizona. From 1997 to 2001, he worked as an engineer and then manager of systems engineering at Fujitsu where he was involved in multiple projects including developing system architectures and requirements for SONET add-drop-multiplexing, ATM switching, and multiservice Ethernet/IP/MPLS products. He was also an active contributor in standards forums, in particular, ATM Forum and IETF. He is co-author of two RFCs. Since 2001 he has been a researcher at Bell Labs, where he has worked on several projects including traffic engineering, novel time-wavelength interleaved network architecture called TWIN, and IP Multimedia Subsystems. More recently, his current research is focused on wireless networks with emphasis on LTE technology. He has received 11 US patents for his work on switching and communication networking. He has served as co-chair and member of technical program committee of

several conferences. He is co-author, with Leon-Garcia, of the textbook *Communication Networks: Fundamental Concepts and Key Architectures*, McGraw-Hill, 2004.

Yu-Dong Yao

"For contributions to wireless communications systems"
Stevens Institute of Technology, Hoboken, NJ

Yu-Dong Yao has been with Stevens Institute of Technology, Hoboken, New Jersey, since 2000 and is currently a professor and department director of electrical and computer engineering. He is also a director of Stevens' Wireless Information Systems Engineering Laboratory (WISELAB). Previously, from 1989 and 1990, he was at Carleton University, Ottawa, Canada, as a Research Associate working on mobile radio communications. From 1990 to 1994, he was with Spar Aerospace Ltd., Montreal, Canada, where he was involved in research on satellite communications. From 1994 to 2000, he was with Qualcomm Inc., San Diego, CA, where he participated in research and development in wireless code-division multiple-access (CDMA) systems. He holds one Chinese patent and thirteen U.S. patents. His research interests include wireless communications and networks, spread spectrum and CDMA, antenna arrays and beamforming, cognitive and software defined radio (CSDR), and digital signal processing for wireless systems. Dr. Yao was an Associate Editor of IEEE Communications Letters and IEEE Transactions on Vehicular Technology, and an Editor of IEEE Transactions on Wireless Communications. He received the B.Eng. and M.Eng. degrees from Nanjing University of Posts and Telecommunications, Nanjing, China, in 1982 and 1985, respectively, and the Ph.D. degree from Southeast University, Nanjing, China, in 1988, all in electrical engineering.

Tao Zhang

"For contributions to wireless and infrastructure networking protocols for applications"
Telcordia Technologies, Inc., Piscataway, NJ

IEEE USA Annual Meeting Report March 3-6, 2011, Austin, TX,

"Engineering in Motion"

By Richard F. Tax

The 2011 IEEE-USA Annual Meeting provides an unparalleled training opportunity for IEEE's U.S. volunteers and members. Industry leaders explored one of the most important engineering challenges facing the world: engineering automobiles and transportation systems to make better use of available energy resources and to implement innovative energy solutions.

Attendees were briefed on pressing social, economic and political issues surrounding transportation and energy, as well as training in how to take outreach programs and ideas home.

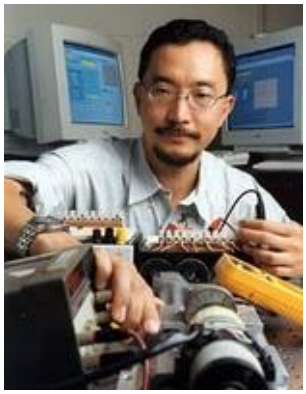
In addition, there were sessions on basic volunteer training, interactive workshops honing leadership skills, exhibits on the latest IEEE products and services, opportunities for networking and exchange of best practices, and the IEEE-USA awards ceremony recognizing the best of our U.S. engineers.

The entire conference program is at:
http://www.ieeeusa.org/calendar/conferences/annualmeeting/2011/program/default.asp.
Many key note talks were recorded and videos are available at:
http://www.ieeeusa.org/calendar/conferences/annualmeeting/2011/video/default.asp

There were many talks relating to career tools, e-learning, career work-life balance and other related subjects. Some of these talks are available at:
http://www.ieeeusa.org/calendar/conferences/annualmeeting/2011/program/default.asp

In Memoriam

Timothy Chang, PhD, Professor, NJIT



Dr. Timothy Chang, Distinguished Professor of Electrical & Computer Engineering, NJIT, and long time member of the

IEEE North Jersey Executive Committee, died unexpectedly after a short illness on February 1, 2011. At the North Jersey Section, he had been Chair of the Control Systems Society Chapter for over 17 years. Within the Control Systems Society, he was an Associate Editor of the IEEE Transactions on Industrial Informatics.

Tim was born in Hong Kong on May 23rd, 1958. He attended Pui Cheng School in Hong Kong and graduated as valedictorian from Tecumseh High School in Windsor, Ontario. He received his bachelor's degree from McGill University in Montreal and his doctorate in electrical engineering from the University of Toronto.

Dr. Timothy Chang was the recipient of the Thomas Alva Edison Patent Award in 2007. He was the recipient of several teaching awards, as well as a NJ Inventors Hall of Fame 'Special Award' for his achievements in the areas of ultra-high precision systems, genetic systems, robotics, and motion control. He was also the author of "Servo Control Design", in Encyclopedia of Life Support Systems, published by United Nations Educational, Scientific, and Cultural Organization (UNESCO). He held 7 patents with 3 pending and had published over 70 refereed journal and conference papers.

Dr. Chang will be remembered by his students as a dedicated teacher and inventor. He will be remembered by his IEEE colleagues for his long and dedicated service in support of his many IEEE activities.

Alan H. Stolpen

L-R: Alan H. Stolpen with Dr. Mike Liechenstein at the Life Grade Luncheon, Oct 28, 2010.

Alan Stolpen, who passed away on March 6th ,2011, after a brief illness, will always be remember by many of his IEEE colleagues for his long and dedicated service in support of IEEE activities.

He was born in the Bronx, NYC, on March 17, 1937, served in the US Army, graduated from the Newark College of Engineering, and worked as an electrical engineer with Smith Industries, Inc., Florham Park, NJ, for most of his career. He started his affiliation with the IEEE as a student member in 1964 and served as secretary and Student Affairs Editor of the IEEE Newsletter from 1967-69.

He started his Section activities as Editor of the Newsletter 1969-70, Chair of the Publications Committee 1970-71, and as the Groups Coordinator and New Projects Administrator before proceeding up the officer chain until he was elected

Section Chair in 1980-81. He continued to stay active as the Secretary of METSAC, 1980-81, as well as serving as the Nominations, Group Coordinator, and Program Chairs and was recognized with the IEEE Centennial Medal in 1984 for his many contributions.

He continued to serve within Section activities as the Historian, PACE member, and METSAC representative. He started serving in EXCOM officer positions again as Secretary and as Section Chair in 2000 when he was also recognized with the IEEE Millennium Medal in 2000. Above the Section, he served on Electro Committees (1970-1990), METSAC Secretary and Chairman (2001-3), and on Board of Governors of Region 1 in 1980 and again from 2000 to 2003.

In 2004, he was presented with the Region 1 William Terry Distinguished Lifetime Service Award for his consistent and enthusiastic leadership, coordination, and service to the North Jersey Section of the IEEE from 1964 to that time.

Since then, he continued to serve as the METSAC representative and was recognized with a METSAC Award at the December 2010 Annual METSAC Meeting & Luncheon. Also, he organized and chaired the Life Member Affinity Group until his unexpected passing. He is survived by his wife Roni of 50 years, three daughters, and three grandchildren.

Alan Stolpen will long be remembered by his IEEE colleagues for his positive, enthusiastic, and dedicated service to the IEEE, particularly the North Jersey Section, over 48 years starting out as a student member in 1964.

2011 IEEE North Jersey Section – Executive Committee Members

Chair
Naresh Chand
chandnaresh@gmail.com

First Vice Chairman
Russell Pepe
rcpepe@ieee.org

Second Vice Chairman
Har Dayal
dayalhar@gmail.com

Secretary
Mengchu Zhou
zhou@njit.edu

Treasurer
Paul E Ward
peward@ieee.org

Members at Large
1. Jignasa Ray, jignasa.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 Chapter Chair

Aerospace Electronic Systems Society
Chandra Gupta
cgtop_2000@yahoo.com

MTT/ Antennas and Propagation Society
Har Dayal/Kirit Dixit
dayalhar@gmail.com
kdixit@ieee.org
Vice – Chair
Ajay Poddar
poddar_ajay@yahoo.com

Metsac Society
Kirit Dixit
kdixit@ieee.org

Circuits and Systems Society
Durga Misra
dmisra@njit.edu

Electron Devices Society
Durga Misra,
dmisra@njit.edu

Engineering in Medicine and Biology Society
Raquel Perez-Castillejos
raquelpc@njit.edu

Communications Society
Nirwan Ansari
nirwan.ansari@njit.edu

Computer Society
Hanna (Hong) Zhao
zhao@fdu.edu

Controls Society
David Haessig
davidhaessig@ieee.org

Engineering Management Society
Tony Almeida
almeida@synergymwave.com

Instrumentation Measurement Society
Russel Pepe
rcpepe@ieee.org

Photonics Society
Haim Grebel
grebel@adm.njit.edu

Power & Energy Society
Ron Quade
rwquade@ieee.org

Industrial Applications Society
Ken Oexle
k.oexle@verizon.net

Systems, Man, and Cybernetics Society
Mike Liechenstein
Itsmikesju@aol.com

Signal Processing Society
Yun Q. Shi
shi@njit.edu

Vehicular Technology Society
Yu-Dong Yao
yyao@stevens.edu

Affinity Group Chair

Consultants
Peter Schutz
schutze@compuserve.com

GOLD
Lawrence Yang
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