

Joint Communications

Tour : Vancouver Marine Communications and Traffic Services (MCTS) Centre

Monday 09 March 700 - 900 pm
23rd Floor, 555 West Hastings, Vancouver

Preregistration is required!

IEEE members given strong preference
Contact Alon Newton at anewton@ieee.org

Operated by the Canadian Coast Guard, the Marine Communications and Traffic Services (MCTS) Centre provides marine safety communications co-ordination; vessel traffic services and waterway management, broadcast weather and safety information; sail plan services, and support for other government and marine agencies. In the Pacific Region, MCTS centres are located at Vancouver, Victoria, Prince Rupert, Comox and Tofino. The Regional Marine Information Centre (RMIC) is co-located with Vancouver MCTS. RMIC disseminates marine information to the public and other marine agencies and administers the Notices to Shipping function in the Pacific Region.

On the evening of Monday 09 March Vancouver MCTS will host four thirty-minute tours of seven people each starting at 700, 730, 800, and 830 pm. Each group will meet at the commissionaire's station in the lobby before proceeding up to the top floor of the building.

During the tour, take full advantage of the opportunity to ask questions of the staff. You'll likely get more out of the tour if you review the background information at Marine Communications and Traffic Services:

http://www.ccg-gcc.gc.ca/mcts-sctm/main_e.htm
• Mission • Maritime Mobile Service Identity (MMSI) • Regulatory Framework • Program • Clients • Major Projects • MCTS Officers on the Job • International Sphere • Information Sheets • Come Quick Danger • Radio Aids to Marine Navigation (RAMN) 2005 • GPS Receiver, Manually-entered position offsets may cause safety hazard * Interference to GPS receivers from consumer electronics-grade active VHF/UHF marine television antennas

Info: Joint Communications Chair
Alon Newton, anewton.ieee@gmail.com

Control Systems

Networked control systems: protocols and algorithms

Professor João P. Hespanha
University of California Santa Barbara
DISTINGUISHED LECTURER

Friday 27 March 1400 - 1500
Electrical & Computer Engineering
2332 Main Mall - Kaiser 2020, UBC

In this talk we review some of the challenges involved in closing feedback loops over communication networks. Our focus will be on issues related to variable sampling, delays, drops, and medium access control/scheduling. A key point that we would like to make is that networked control

applications can profit significantly from the development of communication protocols specific for these systems.

Speaker: João P. Hespanha was born in Coimbra, Portugal, in 1968. He received the Licenciatura in electrical and computer engineering from the Instituto Superior Técnico, Lisbon, Portugal in 1991 and the Ph.D. degree in electrical engineering and applied science from Yale University, New Haven, Connecticut in 1998. From 1999 to 2001, he was Assistant Professor at the University of Southern California, Los Angeles. He moved to the University of California, Santa Barbara in 2002, where he currently holds a Professor position with the Department of Electrical and Computer Engineering.

Prof. Hespanha is Associate Director for the Center for Control, Dynamical-systems, and Computation (CCDC), Vice-Chair of the Department of Electrical and Computer Engineering, and a member of the Executive Committee for the Institute for Collaborative Biotechnologies (ICB). From 2004—2007 he was an associate editor for the IEEE Transactions on Automatic Control.

Joint Communications

Fourth UBC/IEEE Workshop on Future Communications Systems

Friday 13 March 830am - 400pm
Rooms 2020 and 2030
Kaiser Building, 2332 Main Mall, UBC

Details at <http://bul.ece.ubc.ca/>

To register at no charge, please send your name, title, affiliation, and IEEE membership number (if you are a member) to ubcworkshop2009@gmail.com on or before Friday, 6 March.

Refreshments and a light lunch are included in the free registration.

This workshop is organized by the communications and signal processing groups in the ECE department at UBC. We are happy to have Brad Lowe from Nokia to be our keynote speaker this year.

During the technical sessions, there will be presentations from university researchers as well as industry leaders/representatives from different companies, including (in alphabetical order): • BroadbandTV • Guard RFID Solutions • Kintama Research Corp. • Microsoft Research • Research in Motion (RIM) • ROQ Design & Consulting Inc • Transport Canada • TRL Microwave Technology Inc • Wireless 2000.

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His current research interests include hybrid and switched systems; the modeling and control of communication networks; distributed control over communication networks (also known as networked control systems); the use of vision in feedback control; and stochastic modeling in biology.

Dr. Hespanha is the recipient of the Yale University's Henry Prentiss Becton Graduate Prize for exceptional achievement in research in Engineering and Applied Science, a National Science Foundation CAREER Award, the 2005 best paper award at the 2nd Int. Conf. on Intelligent Sensing and Information Processing, the 2005 Automatica Theory/Methodology best paper prize, and the 2006 George S. Axelby Outstanding Paper Award. Dr. Hespanha is a Fellow of the IEEE and an IEEE distinguished lecturer since 2007.

More information about Dr. Hespanha's research can be found at <http://www.ece.ucsb.edu/~hespanha>

Info: Control Systems Chair: Ryoza Nagamune nagamune@mech.ubc.ca

Institute for Computing, Information & Cognitive Systems Distinguished Lecture Series

Designing IT Systems in Context

John Canny, UC Berkeley

Thursday 26 March 330-450pm
Room 310 Hugh Dempster Pavilion, UBC

The mix of computing and the everyday continues to surprise—not where we expected, e.g., smarthomes, but where we didn't, e.g., Twitter, iTunes and Flickr. Designing well in new contexts requires expertise well outside



of traditional computer science. I will discuss our experiences with an interdisciplinary design lab (the BID Lab) at UC Berkeley and some of the research it produces. The talk covers two projects: a telepresence system called Multiview, which contradicts what we "knew" about video-conferencing and draws heavily upon social psychology and non-verbal communication; and MILLEE, a project for second-language learning on cell phones that exploits learning science. Both projects have benefited from deep domain expertise. I'll close with some of the lessons we have learned about interdisciplinary sustainability.

John Canny is a Professor in Computer Science at UC Berkeley. His 1987 PhD from MIT was in robotics, and won the ACM doctoral dissertation award. He then focused on the interaction between computers and the physical world—robotics, geometry, vision and computational biology. Since the 1990s he has concentrated on the democratization of computing, and what it means to design systems for the everyday. In 2002, he started the Berkeley Institute of Design, an interdisciplinary, human-centered design research lab that now houses 30 researchers from 8 departments. His research priorities are educational technology, IT for health care, persuasive technology, mobile HCI and CSCW. He won best paper prizes from ACM CHI 2007 and the Persuasive Technology Conference 2008. His project MILLEE was a winner in the MacArthur Foundation's Digital Media and Learning competition in 2008.
Info: 604.822.6894 or info@icics.ubc.ca

IEEE GLOBECOM Call for Papers

IEEE GLOBECOM—the premier telecommunications events—covers the entire range of communications technologies, offering in-depth information on the latest developments in voice, data, image and multimedia.

IEEE GLOBECOM will feature 11 Technical Symposia, Tutorials, Workshops, a Design & Developers Forum and the Communications EXPO, including various Business, Technology and Industry fora, and vendor exhibits.

We invite you to submit papers for IEEE GLOBECOM's acclaimed Technical Program in the following areas of communications: • Ad Hoc, Sensor & Mesh Networking • Next Generation Networking & Internet • Information System Security • Optical Networks & Systems • Communication Theory • Signal Processing • QoS, Reliability & Performance Modeling • Wireless Communications • Communications Software & Services • Wireless Networking • Selected Areas: Cognitive Radio Networks, Access Systems & Networks, Consumer Networks, Data Storage and Satellite & Space Communications

<http://ieee.xert.net/d.cfm?m=217916.279.0.11251>
For more details email Alon Newton at anewton@ieee.org

IEEE Continuing Education Units (CEU) is offering support for locally organized courses.

Please visit:
<http://www.ieee.org/web/education/ceus>

If any of you are members of APEGBC, these courses are recognized for Professional Development Hours to maintain P.Eng licensure I would like to know how many of you are interested. Please email me, Alon Newton, at anewton@ieee.org



<http://www.ieee.org/alias>

IASTED ARP 2009 Call for Papers

6th IASTED International Conference on Antennas, Radar and Wave Propagation
July 06 - 08 2009
Banff, Alberta

<http://www.iasted.org/conferences/cfp-649.html>

Conference Chair
Prof. David G. Michelson UBC

The topics to be covered include, but are not limited to:

- Antennas and Antenna Arrays • Radar • Wave Propagation • Materials and Structures • Microwave Metrology • Computational Electromagnetics

Important Deadlines

Submissions Due - March 23, 2009
Notification of Acceptance - April 17, 2009
Final Manuscripts Due - May 4, 2009
Registration Deadline - May 15, 2009
Dave Michelson davem@ece.ubc.ca

IEEE ICUWB 2009 Call for Papers

The 2009 IEEE International Conference on Ultra-Wideband (ICUWB) will be held **September 09 to 11 2009** in beautiful Vancouver

ICUWB is the leading annual conference dedicated to the general topic of UWB communication in microwave and millimeter wave bands and over cable and power lines. It focuses on the latest advances in UWB technology, current and future applications ranging from UWB communication for personal area and sensor networks to UWB-based localization and positioning systems to UWB vehicular radar and imaging systems, and standardization and regulation for UWB transmission.

Please check the ICUWB website
<http://www.icuwb2009.org/>

IMPORTANT 2009 DATES

Paper submission by: 23 February
Notification of acceptance: 11 May
Submit final manuscript by: 22 June

To download the Call for Papers:
<http://www.icuwb2009.org/CfP.pdf>
Dr. Lutz Lampe, P.Eng, Assoc Professor
General Chair, 2009 IEEE ICUWB

IEEE MINI-SYMPOSIUM ON MULTIPOINT COMMUNICATION SYSTEMS

Friday 03 April 2009 1215 - 430 pm

Technically cosponsored by:



Organized by:
UBC Radio Science Lab
IEEE Joint Communications Chapter
Chair: Prof Dave Michelson

Hosted by:
BC Hydro
Edmonds Auditorium
6911 Southpoint Dr.
Burnaby, BC

Sponsored by



Although parking is available in BC Hydro's underground garage at a nominal rate, we recommend that you consider taking Skytrain.

About the Event

In recent years, service providers and public utilities have begun to deploy fixed wireless multipoint communication systems in order to provide network access and SCADA services at a reasonable cost. Through the efforts of industry, government and academia, Canada has made significant contributions to this field.

During this afternoon event, presenters from UBC, BC Hydro, Planetworks and others will review recent progress with particular focus on fixed wireless propagation studies, systems engineering, and product development.

The meeting time (Friday afternoon) and place (close to Edmonds station on the SkyTrain Expo line) have been chosen to be particularly convenient for both industrial and academic attendees.

Registration:

Thanks to generous sponsorship by Western Economic Diversification Canada, registration for this event is **free of charge**.

Please register by sending your name, company affiliation, and contact information to Prof. Dave Michelson, UBC at davem@ece.ubc.ca.

Because the event is being held in an industry facility, all attendees must register in advance, and no later than the close of business on Wed, 1 Apr 2009.

Space is limited, so registrations will be accepted on a first-come, first serve basis.

Agenda

12:20-13:00 Lunch

13:00-13:05 Welcome and Introduction

Prof. Dave Michelson, [UBC Radio Science Lab](#)

13:05-13:25 Fading on Fixed Wireless Channels between 220 MHz and 2 GHz in Suburban Macrocell Environments

Kyle Sivertsen, MSc Candidate, [UBC Radio Science Lab](#)

13:25-13:45 Effect of Base Station and Terminal Height on Fading at 1.9 GHz in Suburban Macrocell Environments

Boubacar Diallo, MSc Candidate, [UBC Radio Science Lab](#)

13:45-14:05 A Spread Spectrum Channel Sounder for Fixed Wireless Propagation Studies

Dr. Nikola Stanchev, Research Associate

Alex Corbett, MSc Candidate, [UBC Radio Science Lab](#)

14:05-14:20 Refreshment Break & Propagation Van Demo

14:20-14:40 Polarization Dispersion on Fixed Wireless Channels at 1.9 GHz in Suburban Macrocell Environments

Anthony Liou, MSc, [UBC Radio Science Lab](#)

14:40-15:00 Use of Advanced Communications within the Smart Power Delivery System

Ralph Zucker, Director - Smart Grid Development, [BC Hydro](#)

15:00-15:20 1.8 GHz WiMAX for the Utility Smart Grid

Sol Lancashire, Telecom Architect, [BC Hydro](#)

15:20-15:30 Refreshment Break

15:30-15:50 TBA

Tba [TBA](#)

15:50-16:10 TBA

Tba [TBA](#)

16:10-16:30 A Novel Business Model for Telecommunications Consultants

Paul Childs, President, [Planetworks Consulting](#)

16:30

Wrap-up



IEEE Commemorates 125 Years of Engineering the Future

(PISCATAWAY, New Jersey, U.S.A. – January 21, 2009) – IEEE, the world's largest technical professional society, is commemorating its 125th Anniversary this year with a variety of activities surrounding the theme of "Celebrating 125 Years of Engineering the Future." Major anniversary events include the first IEEE Presidents' Change the World Competition for college and university students worldwide; a global media roundtable and Webcast addressing emerging, world changing technologies; a series of celebrations in major world cities throughout the year; and IEEE Engineering the Future Day on 13 May 2009. The latest information is available on the new anniversary Web site, www.ieee125.org.

IEEE traces its roots to the founding of the American Institute of Electrical Engineers by early industry giants, including Thomas Alva Edison and Alexander Graham Bell. Today's global IEEE has become a trusted source for fostering technological innovation and excellence for the benefit of humanity as well as the profession.

"For the last 125 years, IEEE has fostered technological innovations that have helped improve the quality of life," said 2009 IEEE President Dr. John Vig. "We are proud of our heritage and our community where the best in engineering, technology and applied sciences

continue to learn, discover and develop new knowledge for the benefit of humanity worldwide."

IEEE kicked off its celebration on 1 September 2008 with the launch of its first Presidents' Change the World Competition. The goal of the contest is to recognize and reward individual college and university students or teams



Celebrating 125 Years of Engineering the Future

of students who identify a real-world problem and apply engineering, science, computing and leadership skills to solve it. Submissions will be accepted through 28 February, and winners will be announced in June at the IEEE Honors Ceremony in Los Angeles, Calif., USA. For more information, visit www.ieee125.org/ChangeTheWorld.

To ensure that IEEE members, media, mem-

bers of the technology industry and the general public have a one-stop resource for everything related to the 125th Anniversary, IEEE has launched an anniversary Web site, www.ieee125.org. The Web site provides up-to-date information on anniversary activities and includes a calendar of events; a press room and multimedia center with videos, photos and message boards; a viral video contest; and a toolkit to help IEEE members plan their own anniversary events.

On 10 March 2009, IEEE will hold a media roundtable in New York City, USA. Notable researchers in human technology interactions will highlight emerging technologies that have world-changing implications. The goal of the event is to celebrate IEEE's 125th Anniversary, and to facilitate an open dialogue among media and respected names in the engineering and technology sectors. The event will also provide a platform to promote IEEE's Engineering the Future Day, on 13 May, the actual anniversary date of IEEE. Through events and activities, this occasion will help increase awareness of technology advancements around the world.

These are just a few of the anniversary events planned globally throughout 2009. Visit the anniversary Web site at <http://www.ieee125.org> for more information.

55th IEEE Holm Conference on Electrical Contacts

Sponsored By: CPMT Society of the IEEE

September 14-16, 2009

Renaissance Vancouver Hotel, Harbourside

Vancouver, BC Canada

The purpose of this conference is to provide a forum for the presentation and discussion of the latest developments in the field of electric contacts. In 2008, we had a successful 54th IEEE Holm Conference in Orlando with over 115 international attendee presenting 54 papers.

Important Dates

Extended Abstract Deadline: Jan 19, 2009

Notification of Acceptance: February 9, 2009

Completed Paper: April 15, 2009

Conference Dates: September 14-16, 2009

See our website for latest news on the conference

<http://www.ewh.ieee.org/soc/cpmt/tc1>