

IEEE Montréal Meeting Minutes

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| <u>Activity:</u> | Board Meeting #2 |
| <u>Date:</u> | May.15.2013 (Wed.) |
| <u>Time:</u> | 6:30pm – 9:45pm |
| <u>Location:</u> | Concordia U., EV Bldg., Room No. EV002.184 |
| <u>Attendance (26):</u> | Roni, Abas, Kaveh, Mouhamed, Amir, Anader, Laurent, Lorne, Frank, Cyril, Luis, Ambrish, Jorge, Alireza, Amy, Lydia, Mounir, Farhad, Mojtaba, Walid, Sami, Wahab, Haibo, Fabrice, Michael, Lambert. |
| <u>Approval of Last Minutes:</u> | Last "Board Meeting Minutes" for Feb.20.2013 were approved. |
| <u>Approval of Current Agenda:</u> | <ol style="list-style-type: none"> 1) Chair's Comments 2) IEEE MTL Audit Committee 3) IEEE MTL 2013 Budget 4) Lifetime Members Group 5) Reports from Student Branches, Chapter Chairs, and Affinity Groups 6) Other Topics |

1) Chair's Comments:

-Roni provided an elaborate presentation about the statistics of the IEEE MTL Section and its members.

-In general, we currently have approximately 2,200 IEEE members in the MTL region. And to put it in perspective, IEEE MTL members are roughly 12.5% within Canada.

-Meanwhile, it was remarked that the numbers have increased from previous years due in part to student membership. For example, McGill alone augmented by nearly 100 members.

-It was also indicated that in order to ensure such a vibrant section, we must ensure membership retention among students post graduation.

-Roni also added that several of our Technical Chapters are setup in a joint manner. Ideally, in some instances, these joint chapters could continue their collaboration but should preferably be separated in order to ensure greater financial support.

-Roni also noted that several societies are of interest to MTL members but unfortunately they do not have an allocated chapter within our Section. The CESoc and GRSS are tangible examples of such occurrences. Therefore, whenever needed, new chapters should eventually be created.

- Consumer Electronics Society (CESoc) – <http://cesoc.ieee.org>. Current MTL Members = 66, but no chapter!
- Geoscience and Remote Sensing Society (GRSS) – <http://www.grss-ieee.org>. Current MTL Members = 31, but no chapter!

-Roni also reminded the Board Members that IEEE R7-Canada was officially formed in 1963 (<http://ieee.ca/history>); therefore it is important to emphasize the 50 yrs historical milestone of this very important technical institution during upcoming events.

-Furthermore, Roni highlighted and congratulated Malika's achievement in winning the "IEEE Canada Woman in Engineering Award 2013". The award will be presented to her during the AGM.

2) IEEE MTL Audit Committee:

-Roni informed the Board Members that the IEEE MTL Section was selected for a "random audit" by IEEE HQ.

-In general, the audit process will be comprised of financial and procedural verification of the IEEE MTL Section.

-More precisely, they will verify expense reports, bank accounts, meeting minutes, and all other pertinent documents.

-As a consequence, Roni moved the motion to have an audit committee, which was seconded by Wahab; and it was then approved to have "Eric Holdrinet" oversee this committee.

-Meanwhile, it was noted that some chapters may have their own bank account, independent entirely from the mother Section. An example of this is Amy's CPMT/EMC Chapter. Therefore, Roni remarked that most likely such independent accounts must also go through the audit process; however more administrative exploration on the subject is first needed.

3) IEEE MTL 2013 Budget:

-Roni noted that the starting balance for 2013 was roughly \$120k.

-An important portion of this reserve (~\$45k) was from CCECE'12 which was chaired by Amir.

-Roni and Amir added that in general having a large financial reserve is not in our best interest because we will be taxed.

-Therefore, the endowment with IEEE Canadian Foundation (ICF) for the IMSAM award is an approach to wisely invest some of the reserve: ~\$22k.

-So practically speaking, IEEE MTL controls the \$22K, but it will be owned by ICF. As a result, we will no longer be taxed by IEEE; and we will have the funding to create a high profile award every year for perpetuity.

-Fabrice moved the motion to have the IMSAM award and the related approach for its funding, and it was seconded by Amy. Then, the board voted on the motion, and it passed.

-It was also noted that in order to generate greater financial revenue, all IEEE Conferences being held in the city should ideally be under the umbrella of IEEE MTL Section. IEEE Ottawa Section has been very effective in applying this approach, and perhaps we should attempt to replicate their methodology.

-In past years, the overall reserve of the section was utilized whenever necessary. This year however, Roni attempted to formulate a more structured approach for using the financial reserve. Therefore, he provided a possible breakdown for overall budget utilization.

-In general the proposed structuring for the budget was welcomed by board members, but some provided remarks; they are as follows:

- Luis noted that the \$7K allocated for student funding is limited and should be increased. He also suggested that perhaps we should approve the overall breakdown of the budget for only 6 months, and if necessary adjusted it for the following months.
- Amy and Laurent recommended that the proposed budget could perhaps be implemented with the start of the New Year 2014.

-Lambert moved the motion for the proposed budget, it was seconded by Fabrice. Then, the board voted on the motion, and it passed.

4) Lifetime Members Group:

-Frank and Lorne notified the board that LMs will be congregating to MTL in late Aug.2013; (last year it was held in Japan).

-Frank will eventually work on the needed logistics.

-Frank was interested in hosting a dinner for the 30 or so expected members as a gesture of hospitality from IEEE MTL Section; and so he requested a budget allocation of \$2K.

-Frank moved the motion for the proposed \$2K dinner, it was seconded by Luis. Then, the board voted on the motion, and it passed.

5) Report from Student Branches, Chapter Chairs and Affinity Groups:

Student Branches:

-Concordia Student Branch:

- They had an election and a new chair was selected: "Michael Segev".

- Knowledge transfer to the new team is currently being conducted by Lambert.
- Their latest activity was the Boston trip, including a visit to MIT, for 45 students, where 16 of them were from ETS.

-McGill Student Branch:

- They too have a new chair: "Sami Jaber".
- Financially, they are doing very well.
- They remain committed and interested to joint activities with IEEE Concordia Student Branch.
- A detailed slide report was compiled by Mojtaba, which is attached with this file.

-ETS Student Branch:

- A report prepared by Alireza is attached with this file.

Chapter Chairs:

-SP Chapter (Fabrice):

- They had two events so far in 2013:
 - Seminar in Video Coding by Dr. Marc Decombas (Telecom ParisTech, France).
 - DL on faster-than-Nyquist sampling from Prof. Yonina Eldar (Technion, Israel)
- For these events, they used SYTACom research sponsorship to provide refreshments, muffins, pizza at no cost to IEEE.
- L31 reports have been filled for both events.

- Visit from Prof. Tariq Durrani (U. Strathclyde, Scotland, UK) is planned for May.31.2013. He is also a candidate for 2014 IEEE President: www.tariqdurrani.org.
- Furthermore, they intend to organize one more DL visit in 2013.

-VTS Chapter (Haibo):

- Haibo Zeng from McGill U. has been appointed as Chair of VTS Chapter.
- Activities are expected to be planned in subsequent months.

-AES Chapter (Luis):

- Aim to organize at least two events per year.
- Distinguished speakers are expected from Bombardier and Bell Labs.

-CS Chapter (Wahab):

- Two events are being planned.

-PES Chapter (Ambrish):

- A report prepared by Ambrish is attached with this file.

-CPMT/EMC Chapter (Amy):

- On Mar.20.2013 they had a DL by Dr. Madhavan Swaminathan on "Designing for Power Integrity: Status, Challenges and Opportunities".
- In Sep.2013 Vincente Rodrigues will give a talk on "Automotive EMC".
- In Oct.2013 Paul Franzon will give a talk on "Packaging".

-AP/MTT Chapter (Abas):

- So far they organized: 5 DL, 1 Talk, and 1 day seminar.
- For the next 6 months they plan to have 9 DL, and 2 Talks.

-BTS Chapter (Manijeh):

- Manijeh was away on travel to Toronto/ON; however she did email the chapter activity, and it is as follows:
 - A DL is scheduled for May.30.2013 by Dr. Chu. After his MTL visit, he will continue his tour to Ottawa and Toronto.

-EMBS Chapter (Kian):

- Kian was away on travel to Iran; however he did email the chapter activities and they are as follows:
 - A 1-day symposium on system biology in McGill is scheduled for late May.2013. They will have guest speakers from the US and are anticipating more than 100 attendees. Overall, they received great amount of funding for this symposium.
 - They also have a seminar scheduled for July.2013, where the speaker is confirmed to present his talk at McGill visiting from Germany.
 - They will also have a Bio-Engineering symposium on Sep.13.2013 with 4 guest speakers from Ontario and US schools. They received ICF funding for this symposium but are still looking for more financial support and sponsorship.

-EDS Chapter (Mojtaba Kahrizi):

- Mojtaba was not able to attend the meeting; however he did email the chapter activities and they are as follows:

- A "one day mini-colloquim" on nanoengineering, including 6 lectures given by Prof. Arora, an IEEE distinguished speaker were scheduled from 9am to 5pm. A certificate of attendance was issued to those who attended the course. The event was sponsored by IEEE, Concordia's ECE Dept. and ENCS Faculty. Registration was free and some lecture notes were provided to the participants. L31 form is already filled.
- There is also a plan to invite another DL in the area of Micro/Nano Devices for this Fall 2013.

-TMC Chapter (Raphael):

- Raphael was away on travel to Calgary/AB; however he did email a report of past/upcoming activities. The report is attached with this file.

-CAS Chapter (Omair):

- Omair was not able to attend the meeting; however he did email a report of past/upcoming activities. The report is attached with this file.

-RA Chapter (Malika):

- Malika was away on conference travel; however she did email the chapter activity, and it is as follows:
 - From Jan. to May.2013 they had 2 speakers from the Canadian Space Agency and McGill University for the McGill IEEE WIE and Computer Science Workshop.
 - For future events, they are thinking about robotics hackthon and support for a high-school outreach camp.

Affinity Groups:

-WIE (Lydia):


- In Aug.2013 they plan to visit schools/colleges in Montreal in order to encourage girls to join the field of engineering. The colleges are not yet defined, but they have funding for this event by: "IEEE Canada WIE Affinity Group Outreach Grants-Accelerator Fund".
- In Sep.2013 they will invite Prof. Dominique Schreurs (from Belgium) to discuss her career as a woman in engineering leadership.
- In Oct.2013 they will plan an evening event where they will introduce the IEEE WIE initiative, and will attempt to recruit new members. The event will be in collaboration with the Marianne-Mareschal Chair at Poly.
- In Nov.2013, 3 WIE speakers are scheduled to discuss their experience in their profession.
- Meanwhile, Lydia raised the concern that although she is the representative of the WIE affinity group, she remains unaware of various WIE activities being held in MTL. A greater synergy and contact was recommended with active WIE members such as Malika.

6) Other Topics:

-As noted in various parts of this document, some of the Chairs provided supportive material for their past/upcoming activities. For convenience and full transparency these reports are enclosed with this file. To recap the attachments are as follows:

1. McGill Student Branch (Mojtaba) – 2 pages.
2. ETS Student Branch (Alireza) – 1 page.
3. PES Chapter (Ambrish) – 1 page.
4. TMC Chapter (Raphael) – 1 page.
5. CAS Chapter (Omair) – 3 pages.

Adjournment at 9:45pm



McGill IEEE 2012-2013 Report

May 2013
Mojtaba Vaezi,
Chair

Summary (May 2102- May 2013)

- 16 events (technical, professional, and social)
- 6 ICF grants and awards
- Over \$20,000 cash flow
- Over 50% increase in student body from May to May
- New website (1700+ visits from 41 countries), Facebook, and Twitter accounts

9/11/2013 McGill IEEE Student Branch 2

Activities and Events (2012)

- May
 - Boston trip (25 attendees)
- June
 - Technical talk, Prof. Afshari, Cornell Univ. (22)
- September
 - Start of the year BBQ (100)
 - ECE orientation (40)
 - Life at the Google (42)

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Activities and Events (2012)

- October
 - Visit to InterDigital (25)
 - IEEEExtreme 6.0, (26)
- November
 - Technical talk, Dr. Hejazi from Boston, (22)
 - Recruitment Event: Silicon Labs at McGill (66)
 - Technical talk, Prof. Dudek, from McGill (28)
- December
 - Technical talk, Dr. Aghili, from Canadian Space Agency (30)

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Activities and Events (2013)

- February
 - Ottawa Company Tour (Alcatel-Lucent, QNX Software, Ciena, and Cisco) (20)
- March
 - Field Trip to Ericsson Montreal (22)
- April
 - Technical talk, Dr. MaddahAli, Bell Labs, NJ (19)
- May
 - Women in Engineering Workshop (32+6)

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Upcoming Events (2013)

- May
 - New York Trip (40)

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Achievements

- Phenomenal increase in the student body
 - Today we have 222 members
 - Growing interest in volunteerism

| Date | Number of Members |
|----------|-------------------|
| Sep 2011 | ~100 |
| Apr 2012 | ~120 |
| Jul 2012 | ~150 |
| Sep 2013 | ~200 |
| Oct 2013 | 222 |

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Achievements

- Region 7 Exemplary Student Branch Award
- Remarkable result in IEEEExtreme
 - 5 teams from McGill in top 8 Canada
- ICF grants
 - Women in Engineering Workshop (\$1500)
 - McNaughton Centre Grant (\$5000)
 - USA (New York) Fieldtrip Grant (\$1000)
 - 2013 IEEE Canada Women In Engineering Prize (\$ 1,000) - Malika Meghjani

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Expected Awards!

- We have applied for the following awards for 2012-2013
 - Student Branch Website Contest
 - George Armitage Outstanding Student Branch
 - IEEE Regional Exemplary Student Branch Award

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IEEE Student Branch

École de technologie supérieure
1100 West Notre-Dame Street, room A-3428
Montréal (Québec) H3C 1K3

Telephone : 1 514 396-8800 ext. 7247

Email : ieee@ens.etsmtl.ca

Website : <http://ieee.etsmtl.ca>

IEEE-ETS, Student branch report

On the 5th march we have had our first meeting for the IEEE-ÉTS Executive Board in the 2012-2013 second semester. The purpose of the meeting was to do evaluate the actions taken during the last months and a brief evaluation of organized activities. Also a planning for upcoming events was in the schedule.

2.1 Completed tasks

The principal objective of this meeting was to follow up on activities of the Branch. Here is the list of the completed tasks following that meeting.

- Olympiades
- Back to school 2012
- IEEEExtreme Competition
- International conference on Power Electronics, IECON 2012
- 2nd IEEE Montreal board meeting
- Student Congress 2012, region 7 Canada.
- Recruitment advertisements problems;
- Fundraising planning;
- Missed 2012 IEEE Montreal banquet;
- Club financial report;

2.4 Tasks to complete

- Technical activities: formation LaTeX, formation Matlab, formation réseau, formation MPG ...
- Updating and reconfiguring the association web site.
- Planning for the annual student members of the IEEE-ETS club.
- Annonce de recrutement sur l'INTERFACE.
- Création d'affiche et de brochure.
- Automatisation de l'inscription des étudiants au club IEEE-ETS via le site.
- NY trip organized by McGill; Cancelled
- Boston trip with Concordia; held on 2-3 may
- Counselor changing;
- Founding and sponsorship by ELE dep. For Boston trip;

Alireza Javadi
President
IEEE-ÉTS



IEEE POWER & ENERGY SOCIETY

Combined Annual Report / High Performing Chapter Program (HPCP)



Chapter Chair shall complete and email to pes.chapters.awards@ieee.org and your Region/Chapter Rep by **December 31**
First page must be completed by every chapter. Pages 2-3 for HPCP and/or additional Annual Report details
Items in red boxes are mandatory for the HPCP and the minimum required activities/info for funding consideration

| | | | | | |
|-----------------|---------------------------|------------------|---|----------------------|-----------|
| Chapter: | IEEE PES Montreal Chapter | Region #: | 7 | Program Year: | 2012-2013 |
|-----------------|---------------------------|------------------|---|----------------------|-----------|

| Chapter Officer Information: | | | | |
|------------------------------|------------------|--------------------------|---------------------------|-----------------------------|
| Details | Chair (incoming) | Chair (Program Year) | Vice Chair (Program Year) | Treasurer or Secretary (PY) |
| Name | | Amrish Chandra | | Jorge Lara Cardoso |
| Member No. | | 40068017 | | 90270373 |
| E-mail | | Amrish.Chandra@etsmtl.ca | | jorge_lara_c@yahoo.com |
| Start Date | | February 2010 | | February 15, 2012 |

| Chapter Web Page: | |
|----------------------|----------------------|
| Web Page URL: | Last Updated: |

| Outstanding Engineer Award: | | | |
|--|--|---|--|
| Presented to: | | Date Presented: | |
| Date requested: | | Power and Energy Chapter was awarded the IEEE Montreal Best Technical Chapter Award for the year 2012 | |
| If no PES OEA , describe other recongition: | | | |

| Summary of activities: | <i>Provide summary of chapter activies here <u>or</u> use detailed green sections below</i> |
|---|---|
| | <p>Technical seminar on "Latest Trends in Single-Phase AC-DC Power Factor Corrected Converters with High Frequency Isolation", Prof. Bhim Singh, École de Technologie Supérieure, Montreal, Quebec, Canada, 10 July 2012</p> <p>Technical seminar on "Electric Motor Drives and Power Electronics for More Electric Transportation", Dr. Iqbal Husain, Concordia University, Montreal, Quebec, Canada, 30 August 2012</p> <p>Administrative meetings among IEEE PES Montreal Chapter volunteers to exchange points of view on chapter's goals and organization. Some volunteers were nominated to fill specific positions within the chapter on 15 February 2012</p> <p>PES Chapter collaboration with IES Chapter to organize IECON 2012 conference at ÉTS which was a great success with more than 1000 participants, Montreal, Quebec, Canada, 25-28 October 2012</p> <p>Attendance to PES Regions 1-7 Chapter Chair Training, Manchester Grand Hyatt, San Diego, California, USA, 22 July 2012</p> <p>Attendance to IEEE Montreal Section Annual General Meeting, Le Nouvel Hôtel, Montreal, Quebec, Canada, 17 November</p> <p>Technical seminar on 'Adaptive and AI Control: A panacea in one aspect in the march to a smarter grid' to be given by Prof Om P. Malik on 27 May 2013 at ÉTS.</p> <p>Other technical seminar to be scheduled during the summer 2013:</p> <p>1) Prof Bhim Singh from IIT, Delhi, India</p> <p>2) Dr. Merkhouf Arezki from IREQ, Varennes, Quebec.</p> <p>3) Dr. Innocent Kamwa from IREQ, Varennes, Quebec.</p> |
| Significant plans for upcoming year: | <i>Provide details (if applicable)</i> |
| | <p>1) To increase the PES membership of graduate students</p> <p>2) To organize industrial visits for students. Many Industrial visits are already organized by Dr. Amrish Chandra in his course on Electrical Power Apparatus. More visits will be organized on behalf of PES Chapter for the students other than those who are registered in the course.</p> |

Technology Management Council

Report for May 15, 2013 IEEE Montreal board meeting

Prepared by Raphael Tana, Laurent Lamarre, and Philippe Labrosse co-chairs

2013 Activities:

- 1) TMC organized the following session entitled "Bandwidth explosion, manage the flow". The speaker was Tony Scandella, Director Network Technology - Access and Broadband Networks (Bell Canada). There were 49 members who signed up. Given the nice evening weather and hockey night play off (Canadians lost), 29 members showed up to hear Tony talk about bandwidth explosion. About 50% of the participants were from industry. The members gave from many institutions: McGill, Concordia, Ecole de Technologie Superieure (ETS), Ecole Polytechnique de Montreal and Institut National de la Recherche Scientifique (INRS), Universite de Laval, Cogeco, Videotron, Hydro Quebec, Ericsson and Cisco, National Research Council Canada, and smaller enterprises.
- 2) Raphael participated on conference calls with the International group for Technology Management Council. We exchanged information on activities. This information helps us plan for our activities.

Upcoming Plans:

Next session:

- 1) (PL) Cyber security by Bernard Pelletier Chef Plans et Encadrements Hydro Quebec
 - talk about management of cyber security for the critical infrastructure
- 2) (LL) Guy St-Jean to speak on "360 degree Innovation Management"
- 3) (RT) IEEE Distinguished speaker – invite Dr Ted Rappaport to present his insight into 5th generation wireless technologies; the theme: "Networks: Where are We Going and How do We Get There?"

MONTREAL CHAPTER OF CIRCUITS AND SYSTEMS

2112 SUMMARY OF REPORTS

1. DR. YEHEA ISMAIL
CAS DLP Lecturer
NORTHWESTERN UNIVERSITY
Many-Core Chips: The New High Performance Computing Platform
Monday, February 27, 2012
Number of Participants:
CAS members: 25
Non- CAS IEEE members: 20
Non-IEEE members: 15

2. DR. MAGDY BAYOUMI
CAS DLP LECTURER
CENTER FOR ADVANCED COMPUTER STUDIES
UNIVERSITY OF LOUISIANA AT LAFAYETTE
Towards Green Circuits and Systems
Friday, April 13, 2012
Number of Participants:
CAS members: 22
Non- CAS IEEE members: 18
Non-IEEE members: 13

3. DR. PRAMOD KUMAR MEHER
CAS DLP Lecturer
INSTITUTE FOR INFOCOMM RESEARCH, SINGAPORE
Algorithm-Architecture Co-Design for DSP Application
Thursday, April 5, 2012
Number of Participants:
CAS members: 23
Non- CAS IEEE members: 15
Non-IEEE members: 17

4. DR. DAVID ZHANG
INVITED SPEAKER
BIOMETRICS TECHNOLOGY CENTRE

HONG KONG POLYTECHNIC UNIVERSITY

Biometrics Computing

Friday, April 20, 2012

Biometrics Computing

Number of Participants:

CAS members: 20

Non- CAS IEEE members: 20

Non-IEEE members: 14

5. DR. RAM ACHAR

CAS DLP Lecturer

DEPARTMENT OF ELECTRONICS

CARLETON UNIVERSITY

Meeting the Signal Integrity Challenges of High-Speed Design

Monday, July 23, 2012

Number of Participants:

CAS members: 21

Non- CAS IEEE members: 14

Non-IEEE members: 14

2113 SUMMARY OF REPORTS

1. DR. PAN AGATHOKLI

INVITED SPEAKER

DEPARTMENT OF ELECTRICAL & COMPUTER ENGINEERING

UNIVERSITY OF VICTORIA

Algorithms for Image Reconstruction from Gradient Data and their Applications

Friday, April 20, 2012

Friday, April 12, 2013

Number of Participants:

CAS members: 18

Non- CAS IEEE members: 16

Non-IEEE members: 14

2. DR. ELISABETH TILLIER

INVITED SPEAKER

DEPARTMENT OF MEDICAL BIOPHYSICS

UNIVERSITY OF TORONTO

CAMPBELL FAMILY INSTITUTE FOR CANCER RESEARCH

Computational analysis of molecular interaction networks in biological systems

Thursday, April 25, 2013

Number of Participants:

CAS members: 22

Non- CAS IEEE members: 20

Non-IEEE members: 16

3. DR. VLADMIR STOJANOVIC

INVITED SPEAKER

MIT, Cambridge, Massachusetts

INTENSIVE COURSE: Designing VLSI Systems with Integrated Nano-Electro-

Mechanical Relays

Friday May 24, 2013