



Agenda for IEEE Canada – TISP Committee Meeting

Date: Wednesday October 26th, 2011

Time: 8:00- 9:15 PM

Teleconference call #:

1-866-512-0904

access code: 8514573#

1. Roll Call of Participants

See annotated list at end of report.

2. Adoption of Agenda

Adopted as circulated

3. Review of Minutes from our last telecom call

Approved

4. TISP Canada Website

- Hamadou indicated Youness is still involved, but has a new email address
- Anader to contact Youness and also follow-up with Montreal team to upload newsletter(s) and more pictures to the website (i.e. Anis' report from Calgary)

5. Funding

- Request for \$5K for 2012 was approved by IEEE Canada board
- IEEE Canada regards TISP as a positive image within IEEE

6. Follow-up with Status of STAO 11 and plans for STAO 12

- Dave noted tryengineering.org now has a total of 97 lesson plans in English, where 50 lesson plans are translated in French
- He has prepared summary lists of English and French lessons for teachers
- Banner and IEEE colour booklet handouts ready
- “Working with Wind Energy” workshop accepted by conference
 - Pat will assemble 10 more kits (6 saved from workshop)
 - Cathy Lowell will attend the booth for 1 day
- Anader and available IEEE members will meet with Chuck Cohen (STAO External relations) on Nov. 11. Anader to propose agenda for this meeting.
- Dave and Pat will meet with Sean Hanna (NDSB) and other school board Science coordinators at/before STAO
- Dave, Pat, Murray to find more volunteers
- Pat will solicit Toronto LMs (as last year)
- All sections are encourages to attend
- Plan to tackle 2012 funding in January.

7. Follow-up with other sections major workshops (Ottawa, Winnipeg, Edmonton...)

- <Covered under section activities below>

8. Issuing of First TISP Canada Newsletter

- Status on generating the FIRST Issue of our Newsletter after upcoming STAO conference in November 30
- To include write-ups from as many sections as possible - material available from: Montreal, Ottawa, Winnipeg, Toronto(2 - STAO and Robotics), Calgary, Edmonton
- Will solicit from all other sections

- Format is 1 page of text with 2 pictures
- Final page count is flexible - aim for 6-8 pages
- Editorial help from Bruce Van Lane.

9. Review of all Sections TISP activities:

- Section activities (**encouraging the inactive sections!**)
- Plans on teaming with school boards and promotional activities
- Plans for the rest of the year activities.

Calgary

TISP Southern Alberta Section has been doing various activities since 2010. The TISP section organized a workshop for math and science teachers along with other activities. This summer the section had four school programs at the elementary level where the Chair Dr. Anis Haque worked directly with the kids in classroom. Each program was approximately three hours long. A group of students from the University of Calgary and Lethbridge University volunteered a total of 85 hours.

Two of the activities were “making a shaking flashlight” and “have fun with buoyancy”. These activities involved parents as well as the kids did some activities at home with their parents and the parents evaluated their works. The feedbacks from the parents, teachers, and students were encouraging. Children loved these activities. “I was thrilled when a curious grade-3 student hugged me and requested to stay longer with them so that he could ask more questions,” said Dr. Haque.

Following is a summary of some of the recent activities. Two of these programs were done in collaboration with an NGO named Association for the Advancement of Science and Engineering Education (AASEE).





Program Summary:

	Program - I	Program - II	Program - III	Program - IV
Date	May 03, 2011	May 03, 2011	May 05, 2011	June 20, 2011
Grade level	3/4 (Sec-01)	3/4 (Sec-02)	5	
School	Banded Peak School	Banded Peak School	Indus School	Westminster School
Location	Banded Peak, Alberta	Banded Peak, Alberta	Indus, Alberta	Lethbridge, Alberta
No of Students	27	27	28	19
Activities	Buoyancy	Buoyancy	Flashlight	Flashlight
Collaborated with	AASEE*	AASEE*		

*AASEE: Association for the Advancement of Science and Engineering Education

Montreal

- Recently proposed workshop with College Mont St-Louis (CML) was cancelled due to lack of IEEE resources and the fact they wanted IEEE resources to do 1-on-1 with students rather than training teachers.
- Youness is in touch with CML School
- Need promotional material from IEEE HQ – Anader to check on this.
- Rafik Bourezak at Ecole Polytechnique de Montreal needs to be re-engaged. Samir will contact him.

- Hamadou and Anader will work with the section chair to get more TISP Montreal volunteers.

Winnipeg

- Witold reported:
- Please accept the following TISP-related activity report from Winnipeg.

1. As the University Advisor, I would like to report that the Satellite Design Challenge (T-Sat) project at the University of Manitoba has 97 registered students and 50 advisors. Under the T-Sat leadership of Dario Schor, the following outreach events occurred since August 2011:

1.1 August 8, 2011 - Magellan Bristol Aerospace

- Attendance: 40 members of the Space Engineering department
- A representative from UMSATS gave a short presentation on the science mission for T-Sat and the ADC system designed to satisfy the mission.

1.2 August 30, 2011 – U of M Graduate Student Association

- Attendance: 80 university students, professors, and guests
- A representative from UMSATS gave a short presentation on the motivation and benefits of the T-Sat project to the student experience at the University of Manitoba.

1.3 September 6, 2011 – U of M Engineering Orientation

- Attendance: 200 first year university students
- A representative from UMSATS gave a short presentation on the T-Sat project to the incoming first year Engineering students at the Faculty of Engineering.

1.4 September 15, 2011 – U of M Engineering Student Group Information Session

- Attendance: 50 university students
- Representatives from UMSATS setup a booth in the atrium to inform other students about the group, the T-Sat project, and how to get involved.

1.5 October 13, 2011 - Canadian Manufacturers and Exporters - Discovery Program Mentor Session #1

- Attendance: 61 high school students and teachers

- Four representatives from UMSATS met with high schools students designing a hovercraft to talk about the design process, planning, and how to document your ideas.

1.6 October 20, 2011 - Shaftesbury High School (SHARP-2

- Attendance: 30 high school students and teachers
- Two representatives from UMSATS attended the Shaftesbury High Altitude Robotic Project (SHARP) meeting to meet the students, teachers, and others involved in the project in preparation for the high altitude balloon launch. The UMSATS representatives encouraged students to think beyond SHARP start thinking of going to engineering and getting involved in the design of spacecraft that would go into orbit.

There are another 4 events planned for the future:

1.7 October 28, 2011 - SHARP2 Balloon Tracking

- UMSATS members and University of Manitoba Amateur Radio Society (UMARS) members assisted in a high altitude weather balloon experiment design by grade 9-12 students at Shaftesbury High School. University students tracked the experiment from the satellite ground station and provided the data to the high school students for analysis of the balloon trajectory. The experiment served a dual purpose of promoting UMSATS internally within the university by inviting students in Science and Engineering to see live demonstrations of the ground station.

1.8 November 4, 2011 - Fort Richmond Collegiate

- A representative from UMSATS described the T-Sat project to 4 grade 11/12 physics classes.

1.9 November 17, 2011 - Canadian Manufacturers and Exporters - Discovery Program Mentor Session #2

- Four representatives from UMSATS met with high schools students designing a hovercraft to talk about designs, testing and material selections.

1.10 December 12, 2011 - Air Cadets

- Representatives from UMSATS introduced the T-Sat project to Air Cadets learning about space and astronomy.

2. We participated in the IEEE Xtreme Programming Competition 5.0 that started on October 21, 2011 and ended 24 hours later. In 2011, more than 1,500 teams registered with over 4,000 students and 450 proctors. The Manitoba contingent included:

- 7 teams (each consisting of three students)
- 7 sponsors (one professor for each team), and
- 12 proctors.

3. The Manitoba Teacher's Society completed their 40th Annual SAGE (Special Area Groups of Educators) Meeting. Thousands of teachers attended it. Manitoba has 15 thousands public school teachers.

4. A Radio Course for Basic Qualifications commenced on September 27, 2011, and will continue until the end of November. The course has 33 registered students, and is taught by W. Kinsner, VE4WK.

5. Preparations to the Canadian Engineering Education Association CEEA 2012 Conference (June 17-20, 2012) are in full swing. The first call for papers is included in this email (both English CEEA2012-CFP-En.pdf and French ACEG2012-ADC-Fr.pdf).

Canadian Atlantic

- Dirk reported that he is working with a volunteer lady from NRC to engage with Nova Scotia Engineers to stage a TISP activity during Engineering Month (January, 2012).

Ottawa

- No report - Janet out of town unexpectedly on business
- The Ottawa TISP team participated in a Science & Technology day with 100 students (Grade 8) and teachers at the Science Museum in Ottawa and will send this write-up for the November TISP newsletter (Pat to follow-up with Janet).

Edmonton/Northern Canada

- Rossitza reported: (from New Orleans)
- Team met with Edmonton Catholic School Board
- Mooney to send pictures and write-up of recent workshop with 30-50 teachers aimed at interesting them in running their own student workshops.

Hamilton

- Dave has prepared a condensed spreadsheet of lesson plans from tryengineering.org including separate list of French lessons

Saskatchewan

- No Report.

Vancouver

- No Report.

Victoria

- No Report

London

- Pat to follow-up with Murray

Peterborough

- No Report

10. Time for the next meeting?

November 30th, 8:00 PM (Wednesday).

11. Varia

- Need to engage “quiet” sections
- TISP Canada should offer to run workshops in these sections
- Student branches could also help
- Offer to run the workshop should be contingent on section getting a quorum of volunteers and/or teachers lined-up for the workshop – this will perhaps re-invigorate TISP in these sections.

12. Adjournment.

9:15 PM



IEEE Canada – TISP Committee Members 2011:

Chair, **Anader Benyamin-Seeyar**, **Attending this meeting**
 Secretary, **Patrick Finnigan**,
 Treasurer, **Kaveh Moezzi**,

Sections

- Newfoundland :
- Canadian Atlantic :
- Montreal :
- Ottawa :
- Toronto :
- Hamilton :
- Kitchener/Waterloo :
- London Ontario :
- Saskatchewan :
- Calgary :
- Edmonton/Northern Canada :
- Vancouver :
- Victoria
- **Winnipeg**
- Peterborough
- Kingston
- Quebec
- St. Maurice
- Sherbrooke
- Other

Section Champion(s) / Guests

Amy Hsiao / Paul King / Brian Kidney

Dirk Werle

**Hamadou Saliah-Hassane /Geoffrey Alleyne /
 Youness Farah /Samir Kharaf /Ildiko /Nancy Battet**

Janet Davis

Patrick Finnigan / Dennis Cecic

Dave Hepburn

Hamid /Amir Khatibzadeh

Murray MacDonald / **Maike**

Wahid Khan /Craig

Anis Haque/....

Rossitza S Marinova / Mooney Sherman /Musa Hassan

Nina Selak /Ljiljana Trajkovic / Zahra

Amirali Baniasadi /Kelly /Alexandra

Witold Kinsner / Shaahin Filizadeh/ Bruce [report email]

Sean Dunne / Luc Matheau

Shahram Yousefi /Omar Eghbal

André Morin

Adel-Omar Dahmane

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Bruce Van Lane of Communication Matters