IEEE 2006 Canadian Conference
on Computer and Software Engineering Education, C3SEE06
PROGRAMME

Delta Sherbrooke Hôtel & Palace Des Congrès,
2685 King Rue Quest
Sherbrooke, Québec, Canada
June 22 (Thursday) to 23 (Friday), 2006

Wednesday, June 21, 2006

18:00 – 19:00   **Registration**
Delta Sherbrooke Hôtel, Room: rivière Coaticook

Thursday, June 22, 2006

08:00 – 09:00   **Registration**
Delta Sherbrooke Hôtel, Room: rivière Coaticook

Session 1: Plenary
09:00 – 09:30   Room: rivière Coaticook *(Chair: Ruben Gonzalez-Rubio)*

- Welcome by Conference Chair
- Welcome by the Dean, Faculty of Engineering, Université de Sherbrooke
- Program and organizational issues

Session 2: Declining Enrollments in Computer & Software Engineering (CSE) Programs (1)
09:30 – 10:30   Room: rivière Coaticook *(Chair: Witold Kinsner)*

09:30   **Canadian Status of Enrollment in Computer and Software Engineering**
Witold Kinsner
Dept. Electrical & Computer Engineering, University of Manitoba, Winnipeg, MB

09:40   **Software Engineering and Accreditation**
Gérard Lachiver
Dean, Faculté de génie, Université de Sherbrooke

09:50   **Enrollment at the University of Guelph**
Bob Dony
School of Engineering, University of Guelph, Guelph, ON

10:00   **Enrollment at the University of Alberta**
Bruce F. Cockburn
Dept. Electrical & Computer Engineering, University of Alberta, Edmonton, AB

10:10   Industrial Perspective
Samuel Guenette
General Manager, MT5, Sherbrooke, QC

10:20   **Discussion: Reasons & Countermeasures**
All Participants

Refreshments Break
10:30 – 10:45   Room: rivière Coaticook

Session 3: Innovation in CSE Programs (1)
10:50 – 12:10   Room: rivière Coaticook *(Chair: Bob Dony)*

10:50   **Learning Embedded Systems Design: A PBL Approach**
Phillippe Mabilleau
Département de génie électrique et de génie informatique
Faculté de génie, Université de Sherbrooke

11:10   **Students and Computing: No Sizzle or No Steak?**
Diane Kelly
Dept. Electrical & Computer Engineering, Royal Military College, Kinsgston, ON

11:30   **Teaching Design Engineering**
M.G.(Ron) Britton and Witold Kinsner
Faculty of Engineering, Univ. of Manitoba, Winnipeg, MB

11:50   **Internationally-Educated Engineers Qualification Program**
Marcia Friesen and M.G. (Ron) Britton
Faculty of Engineering, Univ. of Manitoba, Winnipeg, MB

Lunch
12:15 – 13:25   Delta Sherbrooke Hôtel

Session 4: Innovation in CSE Programs (2)
13:30 – 14:50   Room: rivière Coaticook *(Chair: Ken Ferens)*

13:30   **The Implementation of Problem Based Learning in Computer Engineering with an Illustration in Object Oriented Modeling and Programming**
Daniel Dalle and Charles-Antoine Brunet
Département de génie électrique et de génie informatique
Faculté de génie, Université de Sherbrooke

13:50   **Evolution of the Course Sequence in Embedded Systems at the University of Alberta**
Nancy Minderman, Bruce Cockburn, and Nelson Durdle
Dept. Electrical & Computer Engineering, Univ. of Alberta, Edmonton, AB

14:10   **Podcasting: First Experiences in ENGG*3390 Signal Processing**
Bob Dony
School of Engineering, University of Guelph, Guelph, ON

14:30   **Computing Fundamentals in a Common First Year**
Mary E. Kaye
Dept. Electrical & Computer Engineering, Univ. of New Brunswick, Fredericton, NB

Refreshments Break
14:50 – 15:05   Room: rivière Coaticook

Session 5: Innovation in CSE Programs (3)

15:10 – 16:30   Room: rivière Coaticook (*Chair: Mary Kaye*)

15:10   **ProjectUS: A Projects Monitoring System**
Alexandre Morneau and Ruben Gonzalez-Rubio
Département de génie électrique et de génie informatique
Faculté de génie, Université de Sherbrooke

15:30   **Full Time Lab Instructor Model in Electronic Systems and Software Systems Engineering Programs at the University of Regina**
David Wirth, David Duguid, Trevor Douglas, Luigi Benedicenti, and Christine Chan
Software Systems Engineering, Faculty of Engineering, Univ. Regina, SK

15:50   **Computer Animation for Teaching Microprogrammability of a Basic Microprocessor**
Ken Ferens
Dept. Electrical & Computer Engineering, Univ. Manitoba, Winnipeg, MB

16:10   **Computer Engineering Program at the University of Manitoba**
Witold Kinsner, Udaya Annakkage, Greg Bridges, and Robert Menzies
Dept. Electrical & Computer Engineering, Univ. Manitoba, Winnipeg, MB

Dinner

17:30 – 19:30   Delta Sherbrooke Hôtel

Friday, June 23, 2006

08:30 – 09:00   **Registration**
Delta Sherbrooke Hôtel, Room: rivière Coaticook

Session 6: Innovation in CSE Programs (4)

09:00 – 10:20   Room: rivière Coaticook *(Chair: Ruben Gonzalez-Rubio)*

09:00   **Students Projects in the Last Year in Sherbrooke**
Fréderic Mailhot
Département de génie électrique et de génie informatique
Faculté de génie, Université de Sherbrooke

09:20   **A Tool to Simplify Integration of Components for Implementation in Logic**
Naraig Manjikian, Cindy Mark, Mohanarajah Sinnathamby, and Jonathan Roth
Dept. of Electrical and Computer Engineering, Queen's University, Kingston, ON

09:40   **Teaching of Computer and Software Engineering through Complex Projects**
Witold Kinsner, Ken Ferens, Mike Becker, Jon Kurtas, Kory Zelickson, and Lily Woo
Dept. Electrical & Computer Engineering, Univ. Manitoba, Winnipeg, MB

10:00   **Progress in a Boolean Algebras & Automata Theory Course**
Witold Kinsner and Aram Faghfouri
Dept. Electrical & Computer Engineering, Univ. Manitoba, Winnipeg, MB

Refreshments Break

10:20 – 10:50, Room: rivière Coaticook

Session 7: Declining Enrollments in Computer & Software Engineering Programs (2)
10:40 – 11:35   Room: rivière Coaticook *(Chair: Bob Dony)*

      10:40   **Enrollment Issues at Queen's**
             Naraig Manjikian
             Dept. of Electrical & Computer Engineering, Queen's University, Kingston, ON

      10:50   **Enrollment Issues at the Royal Military College**
             Derrick Bouchard
             Head, Dept. Electrical & Computer Engineering, RMC, ON

      11:00   **Enrollment Issues at the University of Regina**
             Trevor Douglas
             Software Systems Engineering, Faculty of Engineering, Univ. Regina, SK

      11:10   **Enrollment at the University of New Brunswick**
             Mary E. Kaye
             Dept. Electrical & Computer Engineering, University of New Brunswick, Fredericton, NB

      11:20   **Round Table Discussion: Reasons & Countermeasures**
             All Participants.

Session 8: Summary of the Conference
11:50 – 12:00   Room: rivière Coaticook *(Chairs: Ruben. Gonzalez-Rubio and Witold Kinsner)*

Lunch
12:15 – 13:25   Delta Sherbrooke Hôtel

Tour to the Department of Electrical & Computer Engineering (Optional)
13:30 – 15:00   Université de Sherbrooke