

Applied Mathematics Environmental Sciences

The symposium entitled "Applied Mathematics Environmental Sciences" was held on 29 May in Rimouski. The organizers would like to thank AARMS for their financial support.

Twelve conferences selected for this symposium focused on a variety of subjects with great interest for modeling environmental phenomena. The speakers came from different Canadian and international universities (2 regional, 9 national and 1 international).

More than fifty people attended this conference and participated to discussions that follow each presentation. The main developments were related to:

- Resolution of the convection-diffusion problems by the approaches of stabilized finite elements;
- New approaches to the non-crossing problems for the quantile regression;
- Combinatorial approaches in the field of non-ideal gas;
- Methods of network rationalization for water temperature measures;
- Numerical methods for atmospheric modeling;
- Directional Statistics to model animal movements;
- Spatio-temporal model for air pollution studies.

Financial support from AARMS, has helped cover the travel costs of six students from the University of Moncton and their subsistence expenses and accommodation for three days.

List of participants from Université de Moncton

Students

Ousmane Aboubacar (maîtrise en mathématiques),
Ismaila Baldé (maîtrise en mathématiques)
Samuel Belliveau (maîtrise en mathématiques),
Ndiogou Fall (maîtrise en mathématiques),
Yassine Sabir (maîtrise en mathématiques),
Garba Salaou (maîtrise en mathématiques),
Nawres Yousfi (maîtrise en génie),

Professors (Université de Moncton)

Paul Deguire
Salah El Adlouni
Mohamed Farhloul
Amel Kaouech
Sophie Léger

Requested expenditures

Chalets (Maréchante à Sainte-Luce)	:	834.60\$
Mini-Van	:	177.64\$
Gas	:	134.00\$
Per-diem (6 students * 46\$*3 days)	:	828.00\$
Total		1974.24\$

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UNIVERSITÉ DE MONCTON
CAMPUS DE MONCTON

Faculté des sciences

Département de mathématiques et de statistique

Moncton, July 15th 2015

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Subject: Final report of the symposium « Les mathématiques appliquées en sciences de l'environnement ».

Dear Pr. Langstroth,

The symposium was held on 29th May at Rimouski and was attended by over 60 people. Twelve conferences were scheduled during the day of the symposium. The lectures dealt with various topics on applied mathematics and environmental science applications.

The AARMS funding has allowed the participation of 6 graduated students from the University of Moncton and two guest speakers. The detailed financial report is given in annexe below.

The organizing committee would like to acknowledge the financial support of AARMS, the Faculty of Science and the Department of Mathematics and Statistics of the University of Moncton.

For the organizing committee
Salah El Adlouni

cc.: Mohamed Farhloul (Director, Department of Mathematics and Statistics)
Sophie Léger (Professor, Department of Mathematics and Statistics)

Annexe: Expenditure and income

Expenditure

Transport and Residence fees (2 nights)	
Chalet & roulottes	840
3 rooms	660
2 Cars	740
Gas	330
Per Diem	
7 Students	966
4 professors	552
2 Invited speakers	276
Inscriptions	
7 Students	805
4 professors	720
2 Invited speakers	360
Total	6269\$

Student expenses

	Residence : 168
	Per diem : 138
Ousmane Aboubabacar	Total = 306 \$
	Residence : 168
	Per diem : 138
Samuel Béliveau	Total = 306 \$
	Residence : 168
	Per diem : 138
Ndiogou Fall	Total = 306 \$
	Residence : 168
	Per diem : 138
Garba Salaou	Total = 306 \$
	Residence : 168
	Per diem : 138
Yassine Sabir	Total = 306 \$
	Residence : 220
	Per diem : 138
Nawres Yousfi (Hotel room)	Total = 358 \$

Income

AARMS: 2000\$

Faculté des Sciences: 1500\$

Département de mathématiques et de statistique: 1000\$

Note: Professors' travel expenses and registration are covered by their professional development funds.