

# Meet the EWB conference executive and staff

Throughout the entire conference our staff and executives will be present to attend to all of your needs — just look for the green T-shirts. Each and every individual worked hard to provide the best environment possible for exchange of knowledge, experience and ideas.

## Conference executive:



### Co-president: Alexandra Conliffe

Completing her third year of Mechanical Engineering, Alex Conliffe is the co-president of the conference. Alex chose to get involved in the conference because she saw a need for people who were inspired by EWB's goals and mission to meet and exchange knowledge, ideas and visions. She hopes the conference delegates will not only learn about the challenges faced by communities around the world, but will return to their universities with the tools they need to address some of these issues. This is an opportunity for an incredible exchange amongst delegates from across North America and Alex looks forward to being a part of it.



### Co-president: Louis Dorval

Louis is currently studying Mechanical Engineering. He has participated in the organization of many seminars for Global Vision, a CIDA funded organization that promotes

international trade and development. He has raised over \$16,000 in sponsorship for various events and has participated in two international conferences — on education (La Havana '00) and sustainable development (Hong Kong '01). He has also worked closely with different embassies and the Department of Foreign Affairs and International Trade for the organization of and participation in two international trade missions (Chili/Argentina '99 and Malaysia '00). Besides his involvement in the conference, he also acts as Director for International Relations for an IT Research Project in the Philippines and as Treasurer for the McGill chapter of EWB.

## VP fundraising: Laura Mariani

Laura Mariani is in her third year studying Metals and Materials Engineering. As the VP Fundraising, she is responsible for coordinating corporate funding. This entails compiling an information package, researching potential donors, and speaking with company representatives.

Laura has always been interested in social issues and international affairs. She became involved with the conference to gain a greater understanding of the problems facing the developing world. She also would like the conference to raise awareness and generate interest among her fellow students.



## VP Logistics: Mary Chamberlin

Mary Chamberlin is VP Logistics for the EWB Conference, and Secretary for the McGill Chapter. She is responsible for everything that isn't a speaker, panel or sponsor. This means all meals, entertainment activities, hotel booking, resume processing and media relations.

However, she would not be able to do it without her fantastic team. She is a second

year Mechanical Engineering student, and got involved in the conference and with the organization because of how important EWB is going to be to the developing world. She hopes the conference will be an opportunity to see some unique speakers and to have more cohesion between the different chapters of EWB.



## VP Applications: Elisabeth Mance

Elisabeth Mance is in third year Mechanical Engineering. She believes that engineers have the power to make an enormous difference in developing nations by supplying them with lasting technology. She therefore finds it surprising that this conference is one of the first of its kind. A conference that would give the opportunity for students, NGOs, professors and companies to work together towards this common goal would hopefully benefit everyone involved by supplying them with the ideas and support necessary to make a real difference in other's lives.

## Conference Staff



## Accommodations and Banquet Director: Erin Williamson

After realizing that she did not have the funds to travel to developing nations on her own, Erin decided to get involved in Engineers Without Borders. She became aware that it is possible to make a difference right

from her own community. In helping with the organization of this event, she has faced many challenges, none so great as room booking! On a serious note, she hopes to come away from this experience with a new and deeper understanding of the problems at hand and the contributions that students can effectively provide. She also looks forward to meeting new people who share the same interests and commitment to EWB.

Engineering Games. His experience and presence have been very valuable.

*Saxena, Karolina Guay, Sara Barss, Cynthia Tsien, Alex Conliffe, Louis Dorval*



**Public Project Fair Director:  
Bahareh Seyedi**

Bahareh is a second year Electrical Engineering student. She was thrilled when she first heard about this conference, and her enthusiasm led to directing the Public Project Fair. She got involved in this conference because of the chance to fascinate even one more person with a creative idea for the development of the world that she has come from.

*Project Fair team: Nathan Yang, Breanne Gellatly, Ron Ongkowitzo*

**Web site Director:  
Brant Carson**

Brant was responsible for maintaining the EWB Web site and advising the team that created the CD to be distributed to sponsors. He is in second-year Computer Engineering.

Brant wanted to help the development of a very worthwhile organization at McGill and increase its profile on campus. Brant would like to meet and interact with others in an effort to improve the uses of technology in developing nations.

*Web site team: Shane Jacobs*

**Panels Director:  
Terri Charchuk**

Water panels: Kameel Virjee  
Landmine panels: Andrew Parley  
Energy panels: Elizabeth Jamieson  
IT panel: Annie Bouhairie

*Panels team: Nina Lothian, Jean-Francois Cianci, Louis Dorval*

Media Director: Sofia Guay  
Media team: Ryan Merkle, Louis Dorval  
Graphics Artist: Anne Gouin  
*Sponsorship team: Ali Shivji, Amitabh*

**Acknowledgements**

**George Roter** and **Parker Mitchell**, without whose tireless help, this conference simply would not have been possible.

**Dean John Gruzleski**, who has supported the conference and the McGill chapter of EWB in more ways than we could ever count.  
**Moreen Torpy**, for getting us out of last minute binds on numerous occasions.

**Nancy Czemmal**, for doing a fantastic job with the room bookings.

**The numerous professors** who agreed to cancel or shorten their classes to enable us to host lectures.

**Rosie Russo**, for her help when our chapter first started, and for helping us to set up and run our office.

**John Roucham**, for his help with the Public Project Fair.

**Judy Pharo**, for her ideas and support throughout the conference.

**Secretaries at Student Affairs**, for collecting our mail and for helping us on a nearly daily basis.

**Terry Tobin and Danita Bocarro** for their support from Development Relations.

**Ginette LaMontagne** for Public Relations and **Anne-Marie Bourdouxhe** for media relations.

**Dianne Ferguson** for booking rooms for our meetings, and being so willing to help in any possible way.

**Donna Williams and Vivian Lewin**, who told us of the Beatty Fund which enabled us to bring Bunker Roy to speak at the conference.

**Brian Emo** for introducing us to the McGill Engineering class of '51 and for including support of the conference in the class of '51 gift to McGill.

**Jennifer Brammer, Janis Crawford, Ron Alward, and Chris Smart** for their input with regards to speakers for the conference.

**The many volunteers** whose names do not appear in this list but whose faces you will see, preparing meals, guiding you through the campus and setting up the lecture theatres for the various events.

**Each and every one of you** for coming to share your ideas.



**Communications/ Tech-Team Director:  
Nathan Yang**

Nathan is responsible for the Delegate Handbook, communications and equipment during the conference, ensuring that things run smoothly. He is in second year Electrical Engineering.

Nathan has been involved in many conferences and with several humanitarian organizations. The discovery of a conference and organization for engineers with humanitarian objectives prompted him to help out with the organization of this conference and become a member of EWB.



**IT Processing Director:  
Philippe Joseph Arida**

Philippe is responsible for resume and application processing — he probably knows all of the names of the participants by heart! He is in second year Computer Engineering.

Philippe has been involved in many activities over the years, ranging from President of a student council to competing at the

# Finding food and shelter at the conference

## Welcome wine and cheese

The McGill chapter of EWB invites you to join them for a wine and cheese at the hotel during registration from 20h30 to 22h30. Please let us know if you will not be arriving until Thursday morning so that we can ensure that you are registered before the start of the conference.

## Checking in to the hotel

Delegates will be able to check into the Holiday Inn starting from 14h00 on Wednesday, January 23. Unless otherwise requested, delegates will lodge four to a room. The hotel will assign you to your room. Note that the first person to check into each room will be required to give their credit card number.

## Breakfast

Breakfast will be available for conference delegates each morning in the McConnell Engineering Building on the McGill University campus.

## Lunch

Participants will be provided with lunch each day in McGill's Undergraduate Engineering common room. The meal will vary from sandwiches to catered platters, depending on the day.

## Panels

The purpose of the panel discussions is to address technological problems that exist in the developing world and to discuss solutions that exist already, and potential solutions that need to be explored further. The goal is to generate new ideas for research projects on which EWB members could embark. A reporter will be present at each panel session and will take notes on the discussion. A final report will then be created and distributed to participating NGOs and corporations, as well as being placed on EWB's ResearchSpace, an online source of information on appropriate technology for the developing world.

The panels are structured such that participants will be able to attend panels from a selection of themes. Our five main themes will be Health, Water, Energy, Landmines, and Information and Communications Technologies (ICT). Within a given time slot, 3 panels will run simultaneously, allowing

students to choose which themes and issues interest them the most.

## Leisure time

We want all of the delegates to have the chance to see Montreal on their own if they want, or rest up and relax if they need to. We will give participants a list of fun things to do in Montreal, but we leave you on your own to explore and enjoy our city! This will also be an opportunity for you to meet your fellow delegates — they are from all over the continent, so this opportunity might not present itself again.

## Dining out in Montreal

At the end of this package we have included a list of restaurants that we are sure you will find very useful for satisfying your cravings for food.

## Traveling between the hotel and the conference

The conference will take place on the McGill University campus, which is about a five minute walk from the Holiday Inn. To get to the campus, turn left after exiting the hotel and walk along Rue Sherbrooke until you reach Rue University. Turn right up Rue University until you reach the first intersecting road, Rue Milton. Turn left through the gates into the McGill University Campus. The McConnell Engineering Building is the first building on your left. A big banner will mark the building and volunteers will guide you to breakfast, which will be available on campus.

For the first day only, volunteers will be available to walk delegates from the Holiday Inn to the McGill University campus. Groups will meet at the front entrance of the Holiday Inn and walk to campus in two waves:

“Early Bird” Wave: 8h50  
“Running Late” Wave: 9h30

## Coat check and delegate's room on campus

Because we are in the dead of winter, you will likely have warm and bulky outerwear that you would like to remove once inside. We will have a room to do just that throughout the duration of the conference. We will post signs leading you to this room. A vol-

unteer will ensure the safety of your belongings at all times.

## Checking Out

All delegates must check out of the Holiday Inn by noon on Sunday, January 27. We ask that you return all keys to the front desk. Any damage caused to your room will be charged to the person whose credit card number was given at the front desk. Please avoid this hassle by respecting the hotel rooms!



**Holiday Inn  
Montreal-Midtown**  
420 Sherbrooke Street West  
MONTREAL, QC H3A 1B4  
CANADA

Toll-Free: 1-800-387-3042  
Tel: 1-514-842-6111  
Fax: 1-514-842-9381  
E-mail:  
himidtown@rosdevhotels.com

Here's a description of the Holiday Inn Montreal-Midtown, borrowed from their Web site:

Located in downtown Montreal, within walking distance of major shopping areas, restaurants and night life. We services including indoor pool, whirlpool, sauna, restaurant, massage service, same-day dry cleaning, boutique, indoor valet parking, exercise room and beauty salon.

**Parking information**  
Daily parking Fee: 13.50(CAD)

**Nearby attractions**

Montreal Casino	10 km
Biodome	7 km
Molson Centre	1.5 km
Olympic Stadium	7 km
Shopping Centres	0.5 km
Night Life	0.5 km



# Thursday, January 24: Technology impact day

## THURSDAY AT A GLANCE

### Breakfast

09h00 to 10h00

### Opening ceremonies

10h00 to 11h30: McConnell 204

Chandra Madramootoo, Chris Smart  
and Patrick Pichette

### Panel discussions 1

11h30 to 13h00: McGill Engineering Complex

Water Resources Policy and Economics,  
Room: Civil 388  
Health Technologies,  
Room: Civil 497  
Demining Technologies,  
Room: McConnell 12

### Lunch

13h00 to 14h30: Common Room

### Panel discussions 2

14h30 to 16h00: McGill Engineering Complex

Energy Technologies (Community Scale),  
Room: Civil 497  
Water for Agriculture,  
Room: Civil 388  
Information and Communication Technolo-  
gies, Room: McConnell 12

### Panel discussions 3

16h00 to 17h30: McGill Engineering Complex

Town and Village Water Supply  
and Sanitation,  
Room: Civil 388  
Energy Technologies (Household),  
Room: Civil 497  
Prosthetics for Landmine Victims,  
Room: McConnell 12

### Leisure time

17h30 to 19h00

### Dinner and Evening Entertainment

19h00: Marché Movenpick and Altitude 737

## Goals

- The panel discussions seek to educate the delegates about important issues and challenges in specific technology areas, and how these are being addressed.
- The panel discussions should leave the delegates with a clear understanding of what they can do to help. Ultimately, these panels should motivate delegates to take action by performing research or undertaking projects.

## Format

There will be nine panel discussions throughout the day. The day will be divided into three 90-minute panel sessions, with three individual panels, each covering a different topic area, running simultaneously in different locations. We expect that approximately 50 conference participants will attend each panel discussion.

Each panel will be structured with the following three components:

### Introduction

Each panelist will give a 5 to 15 minute presentation introducing themselves and the work that they do as it relates to the panel topic. Two to three speakers will participate in each panel.

### Facilitated discussion

Following introductions, a 20 minute facilitated discussion will take place amongst the panelists. An expert in the field will facilitate this discussion.

### Question period

Following the facilitated discussion, conference delegates will have the opportunity to ask questions of the panelists for approximately 25 minutes.

## Opening Ceremonies

10h00 to 11h30, McConnell 204

## Keynote speaker: Chris Smart Special Initiatives Program, IDRC

Chris Smart is responsible for the coordination and administration of all training awards given by IDRC. In the last 10 years, he has also been involved in the design of IDRC training programs for developing country institution researchers.

Chris is currently the Director of the Special Initiatives Program within IDRC's Corporate Services Branch. He joined the Centre in 1979 as a Program Officer in the Science and Technology Policy Unit. At various times he has been Deputy Director of the Fellowships and Awards Division, and of the Social Sciences Division.

Chris graduated in General Science from the University of Toronto and later crossed into the social sciences and humanities with an MSc in the History and Social Studies of Science from the Science Policy Research Unit of the University of Sussex.

After graduating from the University of Toronto, Chris was a secondary school teacher of science — first in Canada and then in Sarawak with CUSO. After completing graduate studies in the UK he was senior tutor for four years in the Department of History at the University of Papua New Guinea. Before joining the centre Chris was the Associate Director for Overseas Programs for World University Service Overseas of Canada.

## Keynote speaker: Chandra Madramootoo Director, Brace Centre

Chandra Madramootoo has accomplished considerable research work in irrigation, hydrology, drainage and soil conservation both in Canada and overseas. His activities involve irrigation, simulation models of hydrology and drainage, environmental impacts of irrigation and drainage, water table management, and drainage and water quality.

Chandra is presently involved in many steering committees for CIDA/McGill water projects, in addition to being involved provincially and nationally in the leadership of professional as-



sociations and working groups.

**Keynote speaker:  
Patrick Pichette**  
Executive Vice-President,  
Planning and Performance  
Management, BCE Inc

Prior to joining BCE, Mr Pichette was a Partner at McKinsey & Company's Montreal office, from June 1996 to December 2000, where he was a lead member of McKinsey's North America Telecom Practice, as well as its Global Pulp and Paper Practice.

Previously, Mr Pichette was Vice-President and Chief Financial Officer of Call-Net Enterprises (1994-1996); and an Associate at McKinsey & Company in Toronto (1989-1994).

Mr Pichette earned a B.A. Business Administration from Université du Québec at Montréal (1985-1987) and an M.A. Philosophy Politics and Economics from Oxford University where he attended as a Rhodes Scholar (1987-1989). He is a Board member of Engineers Without Borders.

**PANEL DISCUSSIONS 1:**

**Water management**

**Chandra Madramootoo**

See previous page for Chandra's bio.

**Aly Shady**

Currently a Senior Water Specialist, Policy Branch, at the Canadian International Development Agency, Aly Shady was one of the instrumental initiators of the World Water Council.

He has since served as the Vice President and received the gold medal for that organization, while also being appointed to the International Water Academy of Norway, in

1999, and the Club of Tokyo, in 2000.

**Fredy Petitpas**

Fredy Petitpas has worked in Africa, Asia, Canada, Europe and the Caribbean for over 30 years, specializing in the organization and management of multidisciplinary teams. He has done work for the Interamerican Development Bank and consulting firms on reform strategies in the potable water sector. Currently Mr. Petitpas is a Program Manager with the International Water Secretariat.

**Health**

**Médecins Sans Frontières**

Led by Médecins Sans Frontières, this panel will discuss the many ways in which doctors and engineers can work alongside each other in developing nations. The focus will be on how to find solutions to some of the most pressing challenges communities face in the area of health.

**Demining technologies**

**Stewart Myles**

Stewart Myles emigrated to Canada in 1966 to work as a research scientist at the Defence and Civil Institute of Environment Medicine (DCIEM). In 1987, he transferred to the Defence Research Establishment Suffield (DRES) where he managed Canada's R&D program in chemical and biological defence. Since his retirement in 1996, Dr Myles has worked as a contractor for the Canadian Centre for Mine Action Technologies (CCMAT).

**Jenn Motuz**

Jenn Motuz is presently a Master's student in Mechanical Engineering at the University of Waterloo. Her research focus is on protective footwear for demining personnel.

**Robin Collins**

He has worked in the electronics and telecom sector for more than 20 years, primarily as an integrated circuit microsurgeon at Northern Telecom/Bell Northern Research/Nortel and Nortel Networks, and presently for STMicroelectronics.

Currently the co-chair of Mines Action

Canada, he conceived of the MAC demining technology competition on the eve of the signing of the Ottawa antipersonnel landmines treaty in 1997, and has been on the competition's organizing committee since that time.

**PANEL DISCUSSIONS 2**

**Agricultural water**

**Jean-Marcel Laferrière**

Presently an agricultural specialist in the Technical Specialists' division of the Canadian International Development agency, Jean-Marcel Laferrière has worked extensively in Africa and the Middle East.

**Bob Bonnell**

An associate professor with the Brace Centre for Water Resources Management, Bob Bonnell's interests include drainage/irrigation and water management and the use and management of saline water for sustainable crop production.

**Information and communication technologies**

**Luis Barnola**

Luis Barnola is an IDRC Research Officer in the Acacia and PAN programs, and a Ph.D. candidate at the Ontario Institute for Studies in Education, with a research focus on the facilitation of informal learning in on-line discussion environments.

He became familiar with ICTs while working in HACER-ULA and in recent years, he has gained extensive research experience with NALL (New Approaches to Lifelong Learning), the Transformative Learning Centre (University of Toronto) and the Ontario Literacy Coalition.

**Shady Kanfi**

Shady Kanfi is a Program Officer in the IDRC's Bellanet initiative. He holds a M.A. in International Relations from Johns Hopkins University.

His work in the use of ICTs in social and political development stems from his early involvement in Canada's vibrant community networking movement.

Recently, these interests have focused on

the intersection of online communities with real-world organizational cultures.

#### **NetCorps Speaker**

NetCorps is a coalition of Canadian international development organizations that works in partnership with Industry Canada to send young adults on volunteer ICT internships.

### **Community-scale energy**

#### **Pat Delaquil**

Pat Delaquil is presently with Clean Energy Commercialization in the Washington, DC area. His expertise lies in renewable energy systems, with some focus on Biomass energy methods.

#### **Ron Alward**

Ron Alward is a Senior Research Officer in the Energy Diversification Research Laboratory at Natural Resources Canada. He has worked in the area of appropriate technology for over 30 years, with specific interest in the role of solar energy technologies in developing nations.

#### **Steve Graham**

Steve Graham is the founder of SGA Energy and has worked in the field of sustainable energy for over 20 years. He has extensive experience as an energy planner (3 years to the Government of Nepal) and as a rural electrification master planner (the Philippines and Vietnam) for national governments. He has worked in over 15 developing nations and is knowledgeable on issues related to anthropogenic causes of climate change.

### **PANEL DISCUSSIONS 3**

#### **Rural water**

##### **Susana Sandoz**

Formerly a rural water supply and sanitation specialist with the Canadian International Development Agency, and a community development specialist, Susana Sandoz is currently an independent consultant.

##### **Brian Grover**

Now retired and the volunteer director of WaterCan, Brian Grover has participated in

the international development and water resources sectors for thirty five years and has worked in over thirty countries. He has worked with CIDA twice as well as for the World Bank, finishing as the global manager of the international partnership between the World Bank and the United Nations Development Program, the Water and Sanitation Program.

##### **Guy Carrier**

A Senior Advisor in Water and Sanitation department of the Canadian International Development Agency, Guy Carrier's former work includes serving as a Division Director in Technical Services for the City of Sherbrooke. Before joining CIDA, he also worked as a co-operant in Cameroon for three years as the Director of Technical Services for the City of Douala.

#### **Prosthetics for landmine victims**

##### **Tim Bryant**

Currently a professor in the department of Mechanical Engineering at Queen's University, Bryant was awarded the Canadian Medical and Biological Engineering Society Bionetic Young Engineer Award in 1992 and the Professional Engineers Gold Medal for Achievement in 1993.

Over the past decade he has also been President of the Canadian Orthopaedic Research Society and the Canadian Society for Biomechanics.

#### **Household-scale energy**

##### **Vadim Belotserkovsky**

Vadim Belotserkovsky is a Mechanical Engineer with GPCo and has over 10 years' experience in the energy end-use field. He has worked on renewable energy projects in Uganda, Lesotho and Botswana. His technology focus has ranged from photovoltaic Solar Home Systems to wind-powered water pumping to solar crop drying and solar-rechargeable hearing aids.

##### **Sean Whittaker**

Sean Whittaker is a Mechanical Engineer with Marbek and has over seven years of experience working on projects involving

renewable energy technologies. Internationally, he has worked for the World Bank on the development of an economic-engineering model to analyse the projected levelised energy cost and greenhouse gas reduction potential of solar thermal power plants in developing countries. Sean has also worked in developing countries, such as Madagascar and Bangladesh, on community-level technology projects involving the design, construction and installation of water-pumping windmills, crop dryers, micro-hydro stations and photovoltaic systems.

#### **Dinner: Marche Movenpick**

All delegate packages will include a \$10 voucher towards dinner at Marche Movenpick, located very near to the Holiday Inn at Marche Movenpick, 1 Place Ville-Marie. Their phone number is (514) 861-8181. Volunteers will walk with delegates to the restaurant in two waves:

"I'm Starving" Wave: 19h15  
"I Couldn't Get Out of Bed" Wave: 19h45

If you miss both of these escorted trips, the directions to Marchen Movenpick are as follows:

Turn left out of the Holiday Inn onto Rue Sherbrooke. Walk to Rue University and turn left. Marche Movenpick is located at the intersection of Rue Cathcart and Rue University.

#### **Dancing: Altitude 737**

Altitude 737 is a trendy nightclub located in the heart of Montreal. Located in the top three stories of Montreal's tallest building. The club boasts the best view of Montreal in the city.

Normally cover charge starts at \$10, so count yourself lucky tonight (tickets can be found in your delegate packages). Please note that there is a dress code for 737 — jeans, khakis with pockets, T-shirts, and running shoes are considered inappropriate attire, and you will not be admitted if you are wearing any of these items.

##### **Altitude 737**

1 Place Ville Marie-Niveau, PH2, Suite 4340, Montreal, H3B 5E4  
Telephone: (514) 397-0737



# Friday, January 25: Development awareness day

## FRIDAY AT A GLANCE

### Breakfast

09h00 to 10h00

### Opening keynote speaker

9h30 to 10h30: McConnell 204  
Claire Dansereau, CUSO

### Keynote speaker

11h30 to 12h30: Macdonald-Harrington G-10  
James Bond, World Bank and IFC

### Lunch

12h30 to 13h30: Common Room

### Beatty Memorial Lecture

13h30 to 14h30: Frank Dawson Adams Aud.  
Bunker Roy, Barefoot College

### Keynote speaker

15h30 to 16h30: McConnell 204  
Dr. David Irvine-Halliday, Light up the World

### Keynote speaker

16h30 to 17h30, Frank Dawson Adams Aud.  
John Stackhouse, the *Globe and Mail*

### Discover Montreal dinner

18h30 to 21h00

### Open evening

21h00

## PUBLIC PROJECT FAIR

### Goals

The public project fair is one of the most dynamic aspects of the conference. Booths will be set up from various NGOs, student project groups and corporations, and will be on display all day long in the engineering building lobbies.

### Delegates

Participants will display research and technological projects that they have undertaken. Projects may be those developed by EWB chapters, or independently by undergraduate or graduate students.

### NGOs

NGOs will host booths in which they display technological projects that they have undertaken in developing nations, as well as internships that they offer, particularly for engineering students.

### Sponsors

Our Key Partners will also be running booths at the Public Project Fair. They will inform those attending the conference, and the general public, more about their company, as well as allowing engineering students to learn more about potential job opportunities within their field.

### Format

The Public Project Fair will be running from 10h00 to 15h00.



### Opening keynote: Claire Dansereau Executive Director, CUSO

Claire Dansereau has devoted most of her career to the principles of sustainable development and social justice. Before her recent arrival to the position of Executive Director of CUSO, Claire

worked as Deputy Minister for the BC Ministry of Transportation and Highways and has also been a committee Vice President at Forest Renewal BC. She presently serves on EWB's Board of Directors.



### Keynote speaker: James Bond Mining Department Director, World Bank and IFC

James Bond, a French national, assumed his current position on January 2000. The Mining Department is a joint department of the World Bank and the International Finance Corporation (IFC). The Mining Department covers all World Bank Group activities relating to the mining industry, ranging from loans to governments, advisory services, equity investments in private transactions, and structured financing for investors. The purpose of the World Bank Group's assistance in the mining sector is to ensure that mining investments contribute to sustainable development in the developing world, and appropriate measures are taken to mitigate environmental impacts.

Prior to his current position, James directed the World Bank's Energy, Mining and Telecommunications Department from July 1997 to December 1999. During his tenure, the World Bank merged its mining, oil and gas, and telecommunications businesses with the IFC. From 1995 until 1997, James was Chief of the World Bank Telecommunications Division. In this position he spearheaded the creation of infoDev, a grant program supported by a number of key private companies, governments, and the World Bank Group, aimed at bridging the digital divide in the developing world.

James' previous experience within the World Bank includes oil and gas

field development, private electricity generation projects, enterprise privatization, and limited-recourse project finance transactions. He has served in various countries in a number of management and operational capacities. Before joining the World Bank, James spent 10 years in the international oil industry, working for the French petroleum company Total and the French Institute of Petroleum.

James attended University of the Witwatersrand and holds a degree in Chemical Engineering. He received his master's degree in Petroleum Economics/Energy Economics from the French Institute of Petroleum, and his PhD in Economics from the University of Panthéon-Sorbonne.



**Beatty Memorial Lecture:  
Bunker Roy**

*Director, Barefoot College*

Solutions to problems in the developing world will not come from the outside world, they will come from the community; these were originally Gandhi's words, but they have found renewed truth with the work of Sanjit Bunker Roy. Mr. Roy founded the Barefoot College, formally known as the Social Work and Research Centre, in Tilonia, India 1972 to empower people within communities to support and sustain their own communities through skills development.

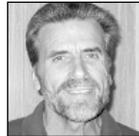
Mr. Roy's ideology is simple: people don't need a paper degree to prove their worth. The Barefoot College has trained unemployed and unemployable rural youth to install and maintain solar cells, and villagers to become barefoot teachers, doctors, engineers and designers.

Shortly after graduating from New Delhi's prestigious St. Stephen's College, Bunker Roy saw firsthand that horrors of the Bahir famine in 1972. As a result, he decided to work with communities to develop the means to prevent these kinds of disasters.

Since that time, Mr. Roy and his colleagues have accomplished some astounding work. More than 100,000 people in 110

villages now have access to safe drinking water, education, health and employment. Each night, more than 150 schools light up with over 2,000 solar-powered lanterns providing basic literacy and numeracy skills to about 3,000 drop out children every year for the last 20 years.

The college has always maintained its dedication to environmentalism and education, providing potable water with hand-pump systems and rainwater collection. To date, there are 20 organizations that have grown out of the Barefoot College in Tilonia, spread over 13 of India's 26 states.



**Keynote speaker:  
Dr. David Irvine-Halliday  
Light Up The World**

David Irvine-Halliday, a professor of Electrical Engineering at the University of Calgary, is the originator of the Light Up The World (LUTW) initiative. Using low energy lighting sources and innovative alternative energy power generation methods, such as solar panels and pedal generators, LUTW seeks to provide electrical light to rural areas in developing nations.

He has been a mountaineer and trail runner for nearly four decades.



**Keynote speaker:  
John Stackhouse  
Correspondent-at-large,  
Globe and Mail**

John Stackhouse is The Globe and Mail's foreign editor, based in Toronto (as of Nov. 10, 2001). He was previously the newspaper's correspondent-at-large, covering a wide range of national and international issues, and from 1992 to 1999, as New Delhi-based development issues correspondent. Reporting from more than 40 countries, his

work has won five National Newspaper Awards, a National Magazine Award and an Amnesty International Award for human rights reporting.

John is a graduate of Queen's University, and has worked for the Financial Times of Canada, London Free Press, Toronto Star and Kingston Whig-Standard.

His first book, "Out of Poverty and Into Something More Comfortable," was published in April 2000 by Random House Canada. He has contributed to two other books, "The Bre-X Fraud" and "Travels with My Laptop." He currently sits on the board of directors of Canadian Journalists for Free Expression, World Literacy Canada (elect) and the advisory council of the University of Toronto's development studies program.

John lives in Toronto with his wife, the photographer Cindy Andrew, and their two children.

**Discover Montreal Dinner**

17h30 to 21h00: Somewhere in Montreal The "Discover Montreal Dinner" gives participants the opportunity to sneak away from the chaos of the conference and do a little exploring of their own in Montreal. We will give participants a list of favorite restaurants in Montreal with directions and all the necessary information needed to get you there! The conference executive will make a large reservation at a restaurant downtown as well and invite all those who want to come along to join us!

# Saturday, January 26: Delegate workshops

## SATURDAY AT A GLANCE

### Breakfast

09h00 to 10h00

### EWB Annual General Meeting

10h00 to 11h30: McConnell 204  
Dr. Avi Friedman

### Chapter workshop

11h30 to 12h30: McConnell 204

### Lunch

12h30 to 13h30: Common room

### Delegate workshops

13h30 to 15h30: McConnell 11, 12 and 13  
Jim Conrad, guest speaker

### The human side of development

15h30 to 17h00: McConnell 204  
Leanne Olsen and Rink de Lange

### Leisure time

17h00 to 18h30

### Banquet and closing ceremonies

18h30 to 23h00  
Hotel Omni Mont-Royal

### Goals

- Discuss the role of EWB, as well as the role of engineering professors and universities.
- Strengthen EWB through workshops covering various topic areas
- Learn from presenters about volunteer management, project management and the realities of volunteering overseas.

### Format

Series of keynote presentations and workshops

### Keynote speaker: Dr. Avi Friedman

Director, Affordable Homes Program, McGill University

Avi Friedman began his architectural studies at the Politecnico di Milano in Italy.

In 1980 he received his Bachelor of Architecture from the Technion, Israel Institute of Technology, and in 1982 his Master of Architecture degree from McGill University.

Between 1982 and 1984, Avi worked for La Tulipe Development, a home-building firm in Montreal, in charge of design. In 1987, he received his Ph.D. from the University of Montreal. His doctoral thesis dealt with decision-making models for flexibility in North American housing.

In 1988 he co-founded the Affordable Homes Program at McGill, which he currently directs. In 1990, together with his colleagues, he designed and built the widely published Grow Home: a \$40,000 townhouse of which 1,000 units were built within one year.

He is the author of numerous articles in academic and trade publications, and a popular speaker. He has received many awards for his work, including the AIA Education Honors, the Association of Collegiate Schools of Architecture (ACSA) Creative Achievement Award, and the United Nations World Habitat Award.

Avi is also a practicing architect in the field of housing.

### Delegate workshops: Jim Conrad

Most conference delegates will take a leadership role within EWB, although the nature of these roles will be varied. Jim will talk about leadership in a general way. He will try to convey the importance young leaders and will relate his experience on how to become more effective leaders.

### Delegate workshops

The Delegate workshops will be a chance for delegates to interact with each other and members of the EWB Board of Directors and EWB Core. Topics will be presented and discussion will be encouraged. The goal of the Delegate Workshops is to make EWB more effective by establishing the broad goals of the organization and by strengthening the organization by connecting delegates with each other, the EWB Board of Directors and the EWB Core. There will also be specific "how to" areas covered.

The delegates will be broken up into three groups. One group will be for executive members or leaders of existing and established chapters; one group will be for executive members or leaders of young existing chapters or new chapters; the final group will be those who are interested in participating in EWB projects and research. Delegates are free to move around with any of the groups, but the material presented will be tailored to the area of interest.

Workshop facilitators will move in between the workshop groups to give presentations and moderate discussions on a number of topic areas. These are specific to each workshop group, but will include:

- The EWB Charter/What is EWB?
- EWB ResearchSpace
- Strengthening EWB
- The Social Entrepreneur
- Building and growing a chapter
- Operating and strengthening a chapter
- Communications (external/internal)

- Finances
- Appropriate Technology

**Keynote speakers:  
Leanne Olson and  
Rink de Lange**  
Author and Ex-Médecins Sans  
Frontières aid worker

Leanne Olson is a Canadian nurse from Winnipeg who worked as an aid worker for Médecins Sans Frontières. She compiled her journals from this work into “Cruel Paradise: Journals of an International Relief Worker.”

Rink de Lange is a Dutch logistician who also worked for MSF. He met Leanne when they were working together in Bosnia. He also worked in Holland as director of one of the largest refugee asylum centers in the country, caring for 950 new refugees. They both remain active in the field of inter-

national aid through the MSF Association.

**Conference banquet**

The conference will wrap up with a formal banquet and closing ceremonies to be hosted at the 5-star Omni Hotel, which is a 10-minute walk away from the Holiday Inn. Dress is semi-formal. The banquet will include cocktails and dinner, which will be followed by a closing speech from a keynote speaker. Volunteers will be leaving from the hotel between 18h15 and 18h30, to arrive for cocktails, which begin at 18h30. Dinner begins at 19h15.

Hotel address:  
Hotel Omni Mont-Royal  
1050 Sherbrooke Ouest  
Montreal (Quebec)

H3A 2R6  
Phone: (514) 284-1110

**Keynote speaker:  
Cowan Coventry**  
CEO, ITDG

Cowan Coventry is one of a new breed of senior management working in the voluntary sector. With a lengthy track record in development, he is also a graduate of a Harvard Business School Executive Development Programme which focused on best practice in ‘leadership and change’. In recent years, he has been responsible for the key review of Oxfam’s ways of working - including international poverty reduction, emergency relief and corporate communications. Cowan is presently the Chief Executive of ITDG, an organization founded in 1966 by Fritz Schumacher, author of “Small is beautiful - economics as if people mattered.”

# In case of emergency, it’s still 911 in French

**Pocket phrase book  
Français**

Bonjours, je m’appelle...  
Puis-je avoir une bière s’il vous plaît?  
Où sont les toilettes?  
Je veux un gros rôtieux pis une poutine.

C’est combien pour un pichet?  
Tu viens ici souvent?  
Habite-tu chez tes parents?  
C’est pas grave, tu peux coucher dans

Où est le dépanneur le plus proche?  
Voulez-vous coucher avec moi ce soir?  
Wow, Montréal, c’est vraiment cool!

**Montreal:  
“Code of Conduct”**

- 1) Never eat at Peel Pub
- 2) Don’t make fun of big guys on motor cycles with bears and glasses and tat-leather vests and have big white skulls painted on them
- 3) For those who don’t speak French: never say “Voulez-vous coucher avec moi ce soir?” to the Quebec Girls

**English**

Hi, my name is...  
Could I have a beer please?  
Where is the bathroom?  
I want a big hot dog and fries with gravy and cheese curds.  
How much for a pitcher?  
You come where often?  
Do you live with your parents?  
It’s alright, you can sleep in my bed mon lit.  
Where is the closest convenience store?  
Would you like to play chess with me tonight?  
Wow, Montreal is really Great!

**Montreal: the Great City**

McGill University’s reputation for scholarly achievement and scientific discovery is known all over the world. McGill’s international student body has a keen interest in issues relating to developing nations as many students call these nations home.

McGill University is located in downtown Montreal, a culturally vibrant, cosmopolitan city. The city’s European flavour and vibrant mix of restaurants, shopping areas, cafes, pubs and clubs compels visitors and locals alike to explore and discover the city’s many charms.

**In case of an Emergency**

In case of Emergency, please feel free to contact any of the two numbers below. The universal emergency number in Montreal is 911.

*EWB Conference Co-Presidents:*  
Alexandra Conliffe (514) 862-0769  
Louis Dorval (514) 235-6240



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# The talk of the campus

Engineers Without Borders began at McGill much like it has at many other universities; one person learned of the organization and told a few people, and before anyone realized what was happening, EWB was the talk of the campus. This is a testament to the value of this organization, and to the importance of its work.

The rapid and widespread growth of Engineers Without Borders has resulted in produced satellite chapters across North America and beyond. Enthusiasm, ideas, knowledge and resources are abundant within each chapter; this is our first opportunity to bring it all together. This is the time to share what is unique to each of our 17 chapters, to learn from each others' experiences, and to learn how to spread EWB's mission statement to areas yet undiscovered.

The McGill chapter of EWB is honoured to host the first Engineers Without Borders conference and we hope that your experience in Montreal will be a memorable one. This conference is a learning experience for all of us and we look forward not only to the conference events, and the knowledge that we will acquire from them, but also to meeting you, and learning from you.

Finally, the conference exec would like to thank each and every person who played a role in making this event happen. A gathering of this size cannot be organized by one person alone, and it is only through the hard work of many that we are all here today. We see this conference as the first of many... and look forward to watching EWB chapters unite again as the organization continues to expand and forge partnerships with communities worldwide.

Enjoy your time in Montreal and return to your homes with new goals and challenges for the road ahead!

Welcome,

EWB Conference 2002 executive

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# Welcome from the co-founders

Dear Delegates,

You've probably been asked countless times by friends and family: "What is Engineers Without Borders?". In answering, you might have talked about our common goal: to help people in developing countries use technology to improve their quality of life. Maybe you mentioned the ways in which we currently accomplishing that goal: by developing widespread solutions, by working on development projects and by building awareness among fellow engineers and the general public. Perhaps you spoke of our common dreams: to help build engineering capacity in the developing world and to facilitate collaboration and information sharing among existing development practitioners.

Those answers are valid and concrete, but there is something missing. That something is you. EWB is a grassroots organisation, and is the sum total of its members - members who are volunteers, members who make change happen.

You are EWB, and EWB is you. You are undertaking the research and creating the solutions; you are working on the development projects; and you are building the awareness of technology and development. You have seen a need, you have researched ways to address that need and you have applied your time, effort and beliefs toward solving that need. You are a social entrepreneur, and you drive the successes of EWB.

That is why this conference is so important. It's a chance for you to meet your fellow EWB social entrepreneurs. It's a chance for you to share ideas and to gain knowledge. It's a chance for you to plan new projects and new initiatives. It's chance for you to answer the question "What is Engineers Without Borders?"

Welcome to your conference.

George Roter  
Co-founder

Parker Mitchell  
Co-founder



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