

Workshop on Environmental Management and Sustainability

PRESENTATION

In this CD-ROM, we organized a series of articles that are part of the inter-action of the Fluminense Federal Institute of Education, Science and Technology (IFFluminense-Brazil), under its Graduate Program in Environmental Engineering (Ppea) and the University of Winnipeg (Canada UW) under its Department of Business and Administration - Faculty of Business and Economics - Canada.

This is the result of the first **Workshop on Environmental Management and Sustainability**, held at UW-Canada in 2014, aimed at the exchange between students and faculty researchers of IFFluminense and UW. The action is part of a partnership between these two institutions by means of a Memorandum of Understanding (MoU).

In the articles, relevant topics in the field of environmental engineering and sustainability are discussed. In this workshop, in addition to promoting exchanges among our researchers in the area in question, the debate on services stood out, tools and technologies for sustainability, to establish interfaces and exchanges of experience between research conducted in IFFluminense (Ppea - Masters in Environmental Engineering - Professional Mode) and UW (Faculty of Business and Economics).

This exchange was the result of significant collaboration between professors and researchers, Bruno S. Silvestre (UW-Canada) and Romeo and Silva Neto (IFFluminense-Brazil), who spared no efforts to make this important partnership come true. Professor Bruno reported: "My greatest pleasure is to see this IFFluminense-UW partnership bearing fruit." It is harvest time, Bruno! The mentioned professors have promoted important debate and exchanging of experiences concerning the theme "Development and Sustainability", on joint discipline in Ppea. Certainly, here we have a good potential for the exchanging of ideas and joint publications in this area of knowledge and related topics. We may also seek exchange of experiences between our institutions, development projects and case studies in environmental issues, like the articles available on this CD-ROM.

We have, in this first effort, articles that support important debate on issues of environmental engineering and sustainability, like "sustainability for the mangroves", "UAVs platforms and geo-technologies for environmental monitoring", "conservation of nature and rights of traditional communities", "integrated solid waste management and payment for urban environmental services", "conservation and protection of coastal lagoons", "social and environmental impacts in the

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installation of port complexes”, "sustainable supply management in emerging economies", "indicators to evaluate the environmental urban quality ", among other topics.

This partnership strengthens our mission to make responsible and balanced use of the environment and to promote the improvement of the quality of life through Technical and Scientific research. The Ppea, which is celebrating a decade of existence in 2016, has been producing relevant research seeking for technologies and services to promote environmental sustainability aiming at improvements in water management, management of urban and industrial waste and of the conservation units, for mitigation and prevention of negative environmental impacts to the environment in its dimensions, soil, water and air, having as a target the environmental balance and the regional population quality of life.

We look forward a mature and lasting relationship regarding technical and scientific collaborations among our researchers. May we share the means of dissemination and scientific communications promoted by both institutions.

We thank our institutions for this partnership!

José Augusto Ferreira da Silva

Pro-Rector for Research and Innovation

Instituto Federal Fluminense/RJ-Brazil, January 2016

It is with great pleasure that we present the abstract proceedings of the 2014 Workshop on Environmental Management and Sustainability (WEMS 2014), which took place in Winnipeg, Manitoba, Canada, on the 21st and 22nd of September, 2014.

This was an event jointly organized by the University of Winnipeg (Canada) and Instituto Federal Fluminense (Brazil) under the partnership agreement reached by these two institutions in January 2014. This event was organized as part of the first student exchange effort realized by these two universities, where the University of Winnipeg received 16 students from the Instituto Federal Fluminense in August and September 2014. These bright Brazilian students had the opportunity to live in Winnipeg for several weeks, experience the Canadian way of life, improve their English language skills in our English Language Program (ELP), and take a Masters course (Environmental

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Economics) in our Environmental, Resource and Development Economics (ERDE) Master Program.

The 2014 Workshop on Environmental Management and Sustainability (WEMS 2014) was the opportunity for students and professors from both universities to present their research to an international audience. We received 22 research submissions for presentation during the first semester of 2014, and in total 16 research papers were presented during the workshop. The workshop also counted on a brilliant presentation from the University of Winnipeg Sustainability Office's Director, Alana Lajoie-O'Malley, when she highlighted all important initiatives related to natural environmental protection and sustainability carried by our University.

Our thanks go first and foremost to all workshop participants who, by their presence and scientific contributions, made this workshop possible. Special thanks are also due to all the workshop organizers, from the University of Winnipeg and Instituto Federal Fluminense, for their effective assistance in the organization of the event. In particular I wish to acknowledge my gratitude to Dr. Bruno Silvestre of our Faculty of Business and Economics, who was instrumental in designing this collaboration. Many thanks as well to the University of Winnipeg's and Instituto Federal Fluminense's personnel who supported in different and important ways this first student exchange initiative and workshop. We are looking forward to further initiatives and interactions under this agreement that makes us proud and hopeful about continuing to strengthen a productive academic relationship and to develop similarly fruitful partnerships in the years to come.

Neil Besner

Provost and Vice-President, Academic and International

University of Winnipeg/Canada, January 2016