RURAL centre | Research Towards Understanding Rural Health in Atlantic Canadian Landscapes

THE ATLANTIC RURAL CENTRE LUNCH SEMINAR SERIES

DR. MARK GIBSON

TITLE: **"Dust in the wind" - investigations of indoor and outdoor air pollution in urban and rural "Olde" Scotland & Nova Scotia**

DATE: Monday, December 14th, 2009,

TIME: **Lunch at** 12:00pm(HFX); 12:30pm(NL) **Talk at** 12:30pm-1:30pm(HFX); 1:00pm-2:00pm (NL)

WHERE: HFX: National Research Council, 4th floor Lecture Hall, 1411 Oxford St.
NL: SafetyNet, Inco Innovation Centre, Room-3046
(Webcast available at **mms://webcast.imb.nrc.ca/lecture** Windows Media Player v11 required)

Lunch will be provided at both the MUN and HFX locations

Please RSVP by December 10th, 2009 to Martha Paynter (902 494- 8846)

ABSTRACT:

Before exposure scientists and epidemiologists can assess the impact of respirable particulate matter (PM) on a population, they need to understand the source contributions to the total particulate matter (PM) measured at a given receptor and the physical and chemical composition of that PM. This is achieved by linking the known chemical composition of PM filter samples to a source using chemical mass balance statistical models or simple mass closure techniques. I present these approaches to source apportionment of PM in "Olde" Scotland and Nova Scotia. Short summaries of other air quality studies conducted by the Atlantic RURAL Centre since 2006 will be presented. Finally, a review of the new Atlantic Aerosol Research Centre current and future laboratory and field sampling capacity will be highlighted.

BIOGRAPHY:

Formerly an assistant professor in Environmental Health at the University of Strathclyde, Mark is currently a Senior Research Scientist with the Atlantic Rural Centre and manager of the Centre's Environmental Health Laboratory. He studies multimedia exposure, assessment and control of toxic agents in the environment, focusing on PM & gaseous pollutants and how these agents impact health at home, work and play. Mark is a Chartered Chemist with the Royal Society of Chemistry, UK and a Co-investigator with the Canadian Aerosol Research Network. He received his Phd in Environmental Health, investigating the source apportionment of PM10 in Glasgow, Scotland.

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