Applied

Mathematics

McGill
Applied Mathematics Seminar Series
Sept. 28, 2001

Prof. Georg Schmidt (McGill University)

Title: "On the modelling, analysis and control of flows through networks of canals"

Friday Sept. 28

Time: 2:30 pm

Room: Burnside 1205

Coffee and refreshments will be served after the seminar

Abstract: This talk will deal with flows through networks of canals, governed by the St Venant equations which are habitually used by hydraulic engineers. Apart from adressing modelling issues I shall talk about the control problem of stabilizing the flow about a desired equilibrium flow. Mathematically this draws heavily on results on hyperbolic conservation laws. There are many open questions in this area.

A network of canals