



# COLLOQUIUM SPEAKER SERIES

## Mathematics & Computer Sciences

Friday January 08, 2010

12:00-12:50 in C640



**Daya Gaur**

Department of Mathematics and Computer  
Science  
University of Lethbridge.

### **A primal-dual algorithm for the unconstrained fractional matching problem**

We consider a variant of the maximum cardinality matching problem. In which negative edge values and arbitrary positive capacities on the vertices are allowed. We use the primal-dual approach. We characterize the optimal solution to the dual of the restricted primal (DRP) and give a combinatorial algorithm for solving the DRP.

This is joint work with Bobby Chan and Ramesh Krishnamurti.

**Everyone is welcome !**