

## CWSF 2005 - Vancouver, British Columbia



### Zubda Talat, Michèle Houde

#### Problems Popping Up

**Division:** Physical & Mathematical Sciences

**Category:** Intermediate

**Region:** CDLS - Province du Québec

**City:** Kirkland, QC, Dorval, QC

**School:** Queen of Angels Academy

**Abstract:** Results from recent studies confirm that inhalation of diacetyl emissions during production of artificially flavoured popcorn leads to lung scarring. This research aims to qualitatively and quantitatively analyze chemicals released by microwaved popcorn using gas chromatography. The release of certain chemicals demonstrated various trends with respect to the brand, amount of flavouring and microwave oven power.

Awards	Value
The University of Western Ontario Scholarship Silver Medallist - \$1500 Entrance Scholarship Sponsor: University of Western Ontario	\$1 500
Silver Medal - Physical & Mathematical Sciences - Intermediate Sponsor: Encana Corporation	\$700
Total	\$2 200