



## CWSF 2005 - Vancouver, British Columbia



## **Roland Troke Barriault**

**Sodium Polyacrylate: The Power of Polymers** 

**Division:** Physical & Mathematical Sciences

Category: Junior

**Region:** Annapolis Valley **City:** Kingston, NS

School: Ecole Rose des Vents

**Abstract:** Sodium polyacrylate polymers, extracted from disposable diapers, were

tested for their ability to absorb liquids. Sodium polyacrylate was found to absorb only water-based liquids. Water absorption is affected by salt content, due to ionic charges and the process of osmosis, and by

cross-linking.



