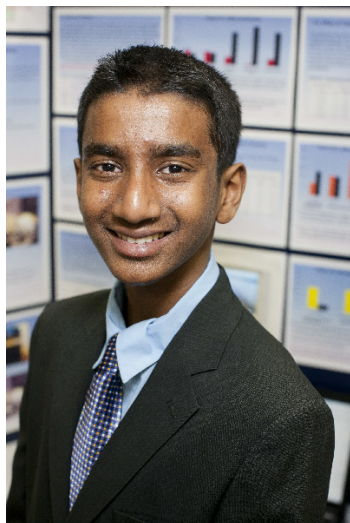


CWSF 2011 - Toronto, Ontario



Gayashan Tennakoon

Oil Sands: Friend or Foe?

Challenge: Resources

Category: Junior

Region: Ottawa

City: Nepean, ON

School: Cedarview M.S.

Abstract: Improvement of extraction efficiency of bitumen from oil sands would significantly benefit our energy needs and economy. It is shown that, compared to traditional "hot water-based" extraction, incorporation of organic solvents can increase the bitumen recovery by bringing economic benefits as well as reduce negative environmental impact of wastes. Several factors, such as solvent type, temperature, proportion of solvent, stepwise extraction, etc., were studied.

Biography

Academically, I have several hobbies. In my current school, I frequently participate in any mathematic competition provided by the school, including the Canada-wide Caribou Math Contest. I have volunteered as a peer Tutor in Math and Computers as a member of the Tech Club. Ever since as a small child, I have been a scientifically curious person. I have built several devices at home and have a great interest in the field of science. I also participate in a wide variety of musical groups. I have been chosen to be a member of the OCDSB All-Star Jazz Band and All-Star Concert Band. At school, I participate in the Senior Jazz Band and Senior Concert Band. In these bands, I play the trombone and baritone. I also like to participate in several athletic activities, namely swimming. After three years of swimming, I have managed to attain all levels which allow me to continue on to become a life guard. Above all I like to volunteer to the local Buddhist temple as to support the organization and gain knowledge on my heritage. Eventually, I am sure each of these activities will benefit to my goal of becoming a medical doctor.

Awards

Value

Carlson Wagonlit Award - Junior Sponsor: Carlson Wagonlit Travel	\$500
Challenge Award - Resources - Junior Sponsor: Youth Science Canada	\$500
Excellence Award - Junior - Gold Medal Sponsor: Youth Science Canada	\$1 500
The University of Western Ontario Scholarship Gold Medallist - \$4000 Entrance Scholarship Sponsor: University of Western Ontario	\$4 000
Total	\$6 500