

CWSF 2015 - Fredericton, New Brunswick



NOGOS: A Novel Nano-Oligosaccharide Doped Graphene Sand Composite Water Filter

Challenge: Innovation

Category: Junior

Region:

City: ,

School:

Abstract: A novel nano-oligosaccharide doped graphene sand composite water filter (NOGOS) was created for use in developing countries. Graphene was produced easily from sugar and sand, and functionalized with chitosan, a natural flocculant. The NOGOS filtered all contaminants effectively, completely eliminated bacteria, and matched commercial water quality standards.

Awards	Value
S.M. Blair Family Foundation Award - Junior Sponsor: S.M. Blair Family Foundation	\$500
Challenge Award - Innovation - Junior Sponsor: Youth Science Canada	
Excellence Award - Junior - Gold Medal Sponsor: Youth Science Canada	\$250
Western University Scholarship Gold Medallist - \$4000 Entrance Scholarship Sponsor: Western University	\$4 000
Platinum Award - Best Junior Project Sponsor: Youth Science Canada	\$1 000
Total	\$5 750