



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



