

CWSF 2010 - Peterborough, Ontario





Bio-Binding: A Microbial Precipit-Action

Division:	,
Category:	An artificially induced particle cementation via microbial induction of soil
Region:	samples was produced using specific urease positive microbes. In a
City:	calcium rich, water prone soil environment these urease positive microbes
School:	work effectively under harsh pH conditions and room temperatures to
Abstract:	produce a binding particulate matrix in the soil. This system can eliminate
	liquefaction susceptible soil deposits during cyclic loading produced by earthquakes.

Awards	Value
Dalhousie University Faculty of Science Entrance Scholarship	
Senior Gold Medallist - \$4000 Entrance Scholarship	
Sponsor: Dalhousie University, Faculty of Science	
UBC Science (Vancouver) Entrance Award	\$4 000
Senior Gold Medallist - \$4000 Entrance Scholarship	
Sponsor: The University of British Columbia (Vancouver)	
University of Ottawa Entrance Scholarship	\$20 000
Senior Gold Medallist - \$20,000 Entrance Scholarship (\$5,000 each year	
for 4 years)	
Sponsor: University of Ottawa	
The University of Western Ontario Scholarship	\$4 000
Gold Medallist - \$4000 Entrance Scholarship	
Sponsor: University of Western Ontario	
Gold Medal - Earth & Environmental Sciences - Senior	
Sponsor: Suncor Energy Inc.	
EnCana Platinum Award - Best Senior Project	
Sponsor: Encana Corporation	
EnCana Best in Fair Award	
Sponsor: Encana Corporation	
Total	



Youth Science Canada PO Box 297 Pickering ON L1V 2R4 www.youthscience.ca / info@youthscience.ca 416-341-0040

