



## ESPC 2007 - Truro (Nouvelle-Écosse)



## **Biographie**

Jonathan McLeod is a grade 12 student attending A.B. Lucas Secondary School in London, Ontario. He enjoys cycling, ping-pong and tennis. He plays the trumpet and competed in the London Kiwanis Music Festival this year. Jonathan also enjoys photography and has placed second in the youth division of the Canadian Geographic Photography Contest in 2004. Jonathan has competed in the London District Science Fair since Grade 9. In Grade 10 he won a summer research position through the Science Fair at the Canadian Surgical Technologies and Advanced Robotics center in London. The following summer he received a scholarship to work on a research project at the Robarts Research Institute in London. After the summer he continued to work on research at Robarts throughout the school year. He also received the "Gene Researcher for A Week" award in March of 2006. This award allowed for twenty-three students across Canada to spend March Break in a leading genetics research laboratory. Jonathan will continue to work at Robarts this summer and will be entering Engineering at UWO this fall where he has been awarded the President's Scholarship.

## Jonathan McLeod

## Training System for Minimally Invasive Heart Valve Replacement Surgery

Division:	Sciences de la santé / Aucun
Catégorie:	Sénior
Région:	London District
Ville:	Arva, ON
École:	A.B. Lucas S.S.
Sommaire:	This project seeks to train surgeons for minimally invasive heart valve replacement surgery in a virtual reality environment. This is a very difficult technique that requires extensive image guidance. The project's focus is to
	create a simulation that provides the surgeon with visual and force (haptics)

Prix	Valeur
Bourses d'admission de la Faculté des sciences de l'Université Dalhousie	4 000,00 \$
Bourse de debut d'études de 4 000 \$ Commanditaire: Université Dalheusie, Faculté des sciences	
Bourse d'études de l'Université Western Ontario	2 000 00 \$
Médaillé d'or - Bourse de début d'études de 2 000 \$	2 000,00 \$
Commanditaire: Université Western Ontario	
Médaille d'or - Génie - Sénior	1 500,00 \$
Commanditaire: Fondation sciences jeunesse Canada	
Total	7 500,00 \$

feedback to help them train for positioning the heart valve during surgery.



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