

**OAPT 34<sup>th</sup> Annual Conference**  
**“Opening Doors- Opening Minds**  
**April 26 – April 28, 2012**  
**Hosted by the Perimeter Institute**



**Thursday 26 April 2012**

Time	Activity	Location	Speaker/Sponsor
5:30 – 7:30 pm	<b>Registration/BBQ</b>	Bistro	
7:30 - 7:40 pm	<b>Welcome</b>	Bistro	Greg Dick and Roberta Tevlin
7:45 – 8:45 pm	<b>Physics Speed Dating</b>	Bistro	PI Researchers
8:45 – 10:00 pm	<b>Social</b>		

**Friday 27 April 2012**

Time	Activity and Location
8:45 – 8:55 am	Welcome: Roberta Tevlin, Greg Dick
8:55 – 10:15 am	<b>Keynote Address: Dr. Neil Turok: Theatre</b>
10:15 - 10:45 am	Coffee break/vendors
10:45 - 12:00 pm	<b>Session A Workshops: See Schedule on back page</b>
12:00 - 1:30 pm	<b>Lunch</b>
1:30 - 2:45 pm	<b>Session B Workshops: See Schedule on back page</b>
2:45 - 3:00 pm	Coffee break/vendors
3:00 – 4:15 pm	<b>Session C Workshops: See Schedule on back page</b>
4:15 – 4:30 pm	<b>The Annual Great Giveaway (door prizes): Theatre</b>
4:30 – 5:15 pm	<b>Special Address: Dr. Cliff Burgess: Theatre</b>

**Saturday 28 April 2012**

Time	Activity and Location	Speaker/Presenter
9:00 - 10:15 am	<b>Session D Workshops: See Schedule on back page</b>	
10:15 - 10:30 am	Coffee break/vendors	
10:30 - 12:15 am	<b>Session E Extended Workshops: See Schedule on back page</b>	
12:15 - 12:30 pm	<b>Closing remarks : Theatre</b>	Roberta Tevlin
12:30 – 1:30	Steering Committee Lunch: Heuthers	

# OAPT 2011 Conference Workshops and Speakers

**Friday 27 April 2012**

8:55– 10:15	<b>Keynote Address: Dr. Neil Turok</b> <i>“Magic that works”</i>					
<b>Session A</b>  10:45- 12:00 pm	<b>Dr. Lucien Hardy</b>  <i>The Conceptual Challenges of Quantum Theory</i>  Bob Room	<b>Martin Laforest</b>  <i>Tour of the Institute of Quantum Computing</i>  Go to bus at 10:30 !!!	<b>Dave Doucette</b>  <i>Getting the H.O.T.S. for Brain Based Physics</i>  Sky Room	<b>Lisa Lim-Cole</b>  <i>Art, Drama and Candy in Physics</i>  Reflecting Lounge	<b>Jason Harlow</b>  <i>Grade 10: Optics</i>  Time Room	<b>Chris Howes</b>  <i>Differentiated Scientific Inquiry</i>  <b>Elementary (gr 6 -8)</b>  Space Room
<b>Session B</b>  1:30 - 2:45 pm	<b>Dr. Michele Mosca</b>  <i>Quantum Computing</i>  Bob Room	<b>Caroline Burgess</b>  <i>Why Take Physics?</i>  Space Room	<b>Dr. Richard Epp</b>  <i>Revolutions in Science: Making Models in Science</i>  Sky Room	<b>Dr. Micah Stickel</b>  <i>Engineering With Electricity and Magnetism</i>  Time Room	<b>Margaret Greenberg</b>  <i>Grade 10: Biophysics Activities</i>  Reflecting Lounge	<b>Marilyn Orszulik</b>  <i>Creativity and Hands-On Learning</i>  <b>Elementary (gr 6 -8)</b>  Alice Room
<b>Session C</b>  3:00 – 4:15 pm	<b>Dr. Louis Leblond</b>  <i>The Big Bang and the Biggest Things</i>  Bob Room	<b>Dr. Deda Gillespie / Dr. Dan Goldreich</b>  <i>The Physics of the Nervous System</i>  Time Room	<b>Shawn Bullock</b>  <i>Using the History of Physic to Teach ... Physics</i>  Sky Room	<b>Nadia Camara</b>  <i>Minute To Win It</i>  Space Room	<b>Greg Macdonald</b>  <i>Grade 9: Beyond the Atom</i>  Reflecting Lounge	<b>Mike Newnham</b>  <i>Inquiry Learning with Smarter Science</i>  <b>Elementary (gr 6 -8)</b>  Alice Room
4:30-5:15	<b>Special Address: Dr. Cliff Burgess</b> <i>“Last Chance to be Wrong About the LHC”</i>					

**Saturday 28 April 2012**

<b>Session D</b>  9:00-10:15 am		<b>Glenn Wagner</b>  <i>Physics Review: Teams, Games and Tournaments</i>  Sky Room	<b>Rolly Meisel</b>  <i>Music, Math and Physics</i>  Time Room	<b>James Ball</b>  <i>YouTube Physics</i>  Bob Room	<b>Richard Taylor</b>  <i>Can We Offer 12C Physics?</i>  Space Room	<b>Graham Whisen</b>  <i>Gotta Get Gizmo!</i>  <b>Elementary (gr 6 -8)</b>  Alice Room
<b>Session E</b>  10:30- 12:15 pm		<b>Damian Pope, Dave Fish</b>  Particle Physics  Sky Room	<b>Jim Hunt</b>  <i>The Kitchener Anamorph: Creating Public Art with Math</i>  Bob Room	<b>Ernie McFarland and Friends</b>  <i>Best of Demo Corner</i>  Time Room	<b>Chris Meyer</b>  <i>Cooperative Group Physics – Experience the Difference!</i>  Alice Room	<b>John Caranci</b>  <i>The Frilly Bits</i>  <b>Elementary (gr 6 -8)</b>  Space Room
12:15–12:30	Closing Remarks: Roberta Tevlin <b>Theatre</b>					