

The Anna I. McPherson Lectures in Physics 2010

Scientific Lecture:

The Coming Revolutions in Fundamental Physics

Friday
March 26th
15:30

Rutherford Physics
Building
Keys Auditorium

I REVIEW THE PRESENT STATE OF KNOWLEDGE IN ELEMENTARY PARTICLE PHYSICS AND THE QUESTIONS THAT WE ARE CURRENTLY ADDRESSING.

I DISCUSS THE EXPERIMENTAL REVOLUTIONS THAT MIGHT OCCUR AT THE LARGE HADRON COLLIDER, SOON TO BE FINISHED AT CERN.

I SHALL ALSO REVIEW THE STATE OF STRING THEORY. THE NECESSITY TO GO BEYOND THE STANDARD MODEL OF PARTICLE PHYSICS AND TO UNDERSTAND HOW QUANTUM GRAVITY HAS LED TO THIS AMBITIOUS ATTEMPT TO UNIFY ALL THE FORCES OF NATURE AND ALL FORMS OF MATTER AS DIFFERENT VIBRATIONS OF A STRING-LIKE OBJECT.

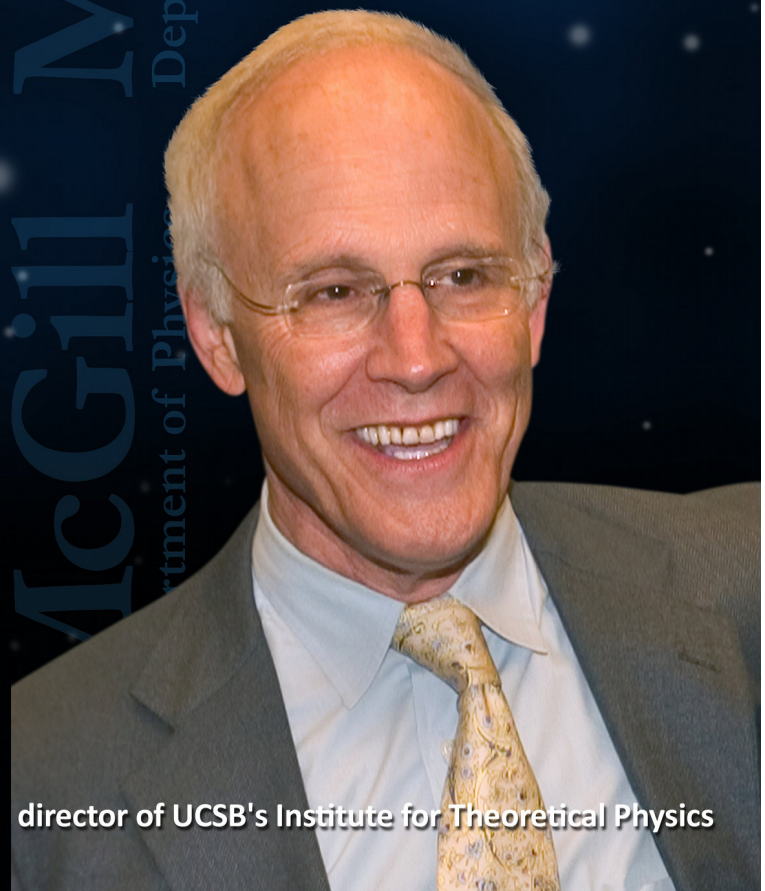
Public Lecture:

The Future of Physics

Thursday
March 25th
18:00

Leacock Building
855 Sherbrooke West
Room 132

IN THIS TALK I DISCUSS 25 QUESTIONS THAT MIGHT GUIDE PHYSICS, FROM COSMOLOGY TO BIOPHYSICS, OVER THE NEXT 25 YEARS.



David J. Gross

Nobel Prize in Physics 2004

director of UCSB's Institute for Theoretical Physics