

SATURDAY MORNING LECTURES LIVESTREAM

SPRING 2021

January 16 – 10 A.M. PST

Evolution Is An Engineer - The Ingenious Nano-machines Inside All Living Things

Humans engineered cars to transform chemical energy into motion. Nature evolved many diverse nanoscale machines for similar purposes. This talk dives into the variety of natural machines, strange properties resulting from their microscopic size, and how living things take advantage of these properties.

by David Sivak — SFU

February 6 – 10 A.M. PST

Optics and Visual Perception - How Physics Is Used During An Eye Exam

The use of optics and physics is fundamental in evaluating the human visual system and ocular health. This talk explores how optometrists apply the principles of physics during a comprehensive eye exam. In this talk visual perception, the optics of the human eye, and the numbering system of your prescription will be discussed.

by Ivan Prpic — Doctor of Optometry

March 6 – 10 A.M. PST

Heavy Black Holes and Light Subatomic Particles

Black holes are mysterious remnants of the deaths of heavy stars. By studying the gravitational waves emitted, we may deduce the masses of black holes. This talk will explain what this teaches us about black hole formation, and the possible existence of hitherto undiscovered light subatomic particles.

by Djuna Croon — TRIUMF

April 10 – 10 A.M. PST

Rare Isotopes - Bridging Heaven and Earth

The study of rare isotopes with highly unbalanced numbers of protons and neutrons is revolutionizing our understanding of the atomic nucleus. TRIUMF is one of few specialized laboratories in the world where these can be produced. This talk will outline some of the mysteries of rare isotopes and the formation of heavy elements in nature.

by Rituparna Kanungo — St Mary's University

May 8 – 10 A.M. PST

Stardust - The Cosmic Seeds of Life

Recent space observations reveal that old stars make complex organic compounds which spread throughout the Galaxy. Was the development of life on Earth assisted by the arrival of these extraterrestrial materials? This talk will describe discoveries over the last 10 years that have resulted in a new perspective on the origin of life.

by Sun Kwok — UBC

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