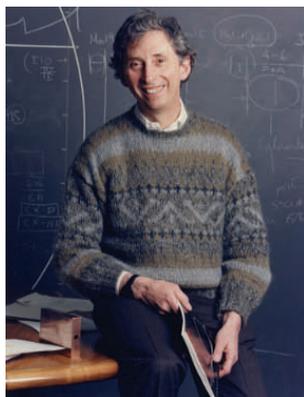


IMSA Great Minds Program[®]

Leon M. Lederman Frontiers of STEM Symposium on Physics

April 10, 2012

IMSA Main Gym ~ 2:45 p.m.– 3:45 p.m.



Dr. John Peoples is Director Emeritus of Fermilab and he served as its Director from 1989 until 1999. He has been active in the Fermilab scientific program for forty years and during the first twenty years he led the construction of new facilities, such as the Antiproton Source, which was a key element in transforming the Tevatron into a proton-antiproton collider. While he was Director the Laboratory successfully sustained the Tevatron as the world's highest energy collider. He received the 2009 American Physical Society Robert R. Wilson Prize for "critical and enduring efforts in making the Tevatron Collider the outstanding high energy physics accelerator of the last two decades". As Director he expanded the Fermilab scientific program to include experimental particle astrophysics, which he joined after he completed his term as Director. He has participated in the Sloan Digital Sky Survey and is participating in the Dark Energy Survey. He is a fellow of the American Physical Society and the American Association for the Advancement of Science.



Dr. Scott Dodelson is a Scientist at Fermi National Accelerator Laboratory and Professor in the Department of Astronomy and Astrophysics and the Kavli Institute for Cosmological Physics at the University of Chicago. He received his PhD from Columbia University, after which he did post-doctoral work at Harvard University and Fermilab. He was hired on to the staff at Fermilab in 1994 and served as Head of the Theoretical Astrophysics Group and co-founder and Interim Director of the Center for Particle Astrophysics. He is the author of the textbook, *Modern Cosmology*, and over 130 scientific papers as well as editor of two other books. Dodelson has worked for over twenty years on the connection between the very large (cosmology) from the very small (particle physics). He has contributed to our understanding of dark energy, dark matter, and inflation.



Dr. Marcela Carena is an internationally renowned expert in particle physics, who works on revolutionary ideas about to be tested at the Large Hadron Collider. She has developed and extended theories to explain the origins of matter and mass, as well as the identity of the mysterious dark matter that fills the universe. She has proposed connections between the Higgs boson, supersymmetry, extra dimensions of space, and the unification of all forces and matter. Carena is a senior scientist at the Fermi National Accelerator Laboratory, and a professor of physics at the University of Chicago. She has worked closely with experimental physicists at the Fermilab and CERN laboratories developing strategies for discovery at the world's highest energy particle colliders. Born in Buenos Aires of Spanish and Italian heritage, Carena did her undergraduate studies in Argentina and her Ph. D. at the University of Hamburg in Germany, and held research positions in Germany and Switzerland before moving to the U.S. University of Chicago.

To view the panel online (either live or at a later date), visit <http://tinyurl.com/3e3tkjp>

To register for this free event and attend in person, visit <http://physics.eventbrite.com/>

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