Joint Institute for Nuclear Astrophysics

Science Cafes in South Bend



January 25, 2012

A History of Nuclear Weapons with Dr. Michael Wiescher of the Physics Department, Notre Dame. Nuclear weapons have been a part of life on earth for more than They have 60 years. affected political decisions, military planning, and military costs. They have altered the environment and influenced man's way of life in After ways. numerous summarizing the present interest in nuclear weapons and nuclear proliferation, the presentation will focus on the physics of nuclear followed materials by description of technical the development and the technical challenges associated with the production of nuclear weapons. The history of the US weapons program and its implications for the ecologic and cultural environment will be discussed. The presentation will end with a summary of long-term issues associated with a military nuclear weapon program.

March 28, 2012

How to Turn Lead into Gold Micha Kilburn, with Dr. Outreach Coordinator for the Joint Institute for Nuclear Astrophysics. Carl Sagan once wrote that "We are made of star stuff." What did he mean by that? How do stars make the "stuff" our bodies in and everything around us? How was the gold in our jewelry made? I will address these questions and more, focusing on how we recreate stellar conditions in laboratories to better the understand origin elements. To show how we turn lead into gold (or anything into something smaller) there interactive will he demonstrations.

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events/sciencecafe.shtml