Introduction:

Your Guests are the following Researchers and Students from the University of California Santa Cruz (UCSC)

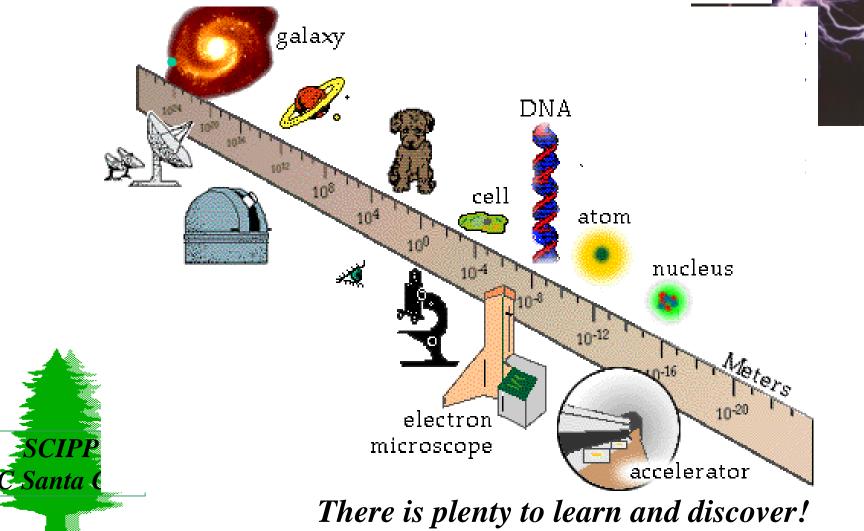
> Professor Hartmut Sadrozinski Professor Terry Schalk Dr. Charlie Crummer Daniel Greenhouse, Inventor Colleen Milbury, student Kamal Prasad, student

Also in attendance is a team from the German TV Station SAT-1 with Roger Bartley





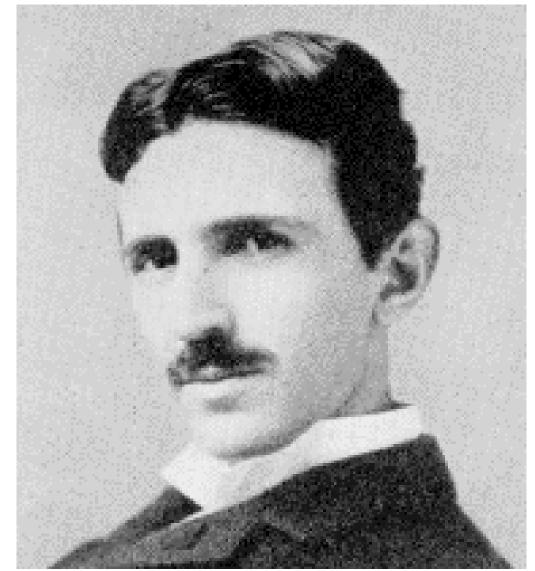
The World is full of Mysteries, from the tiny to the gigantic





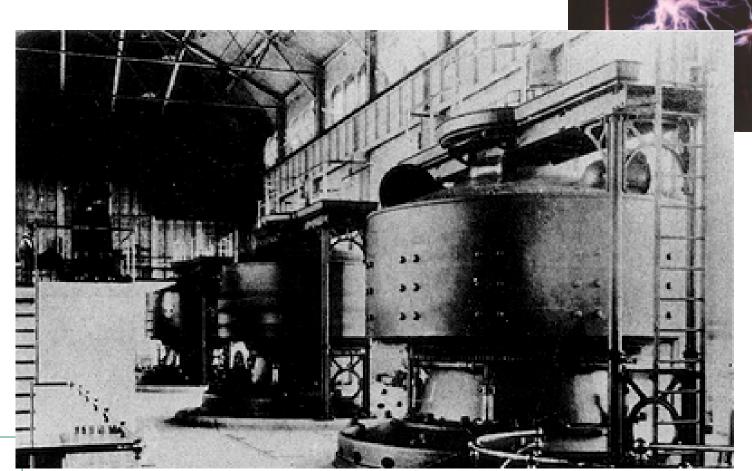




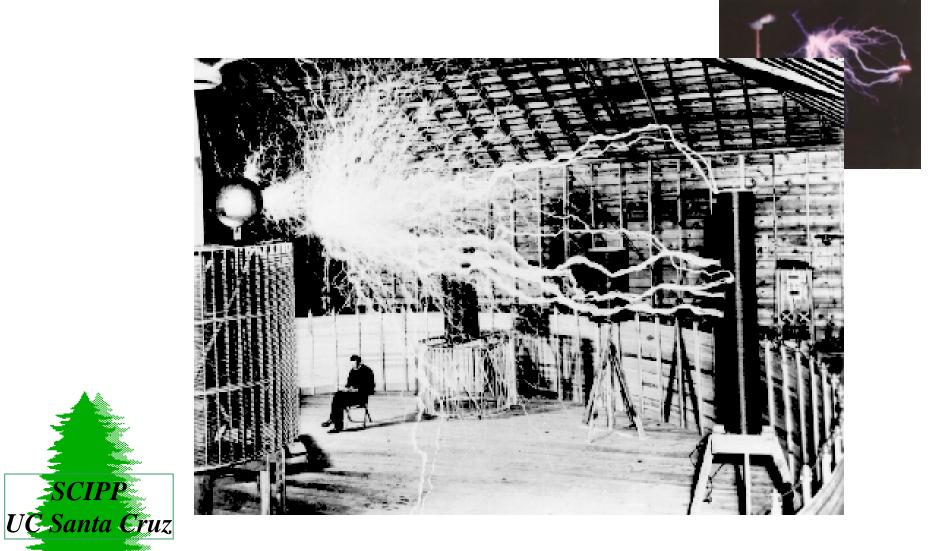


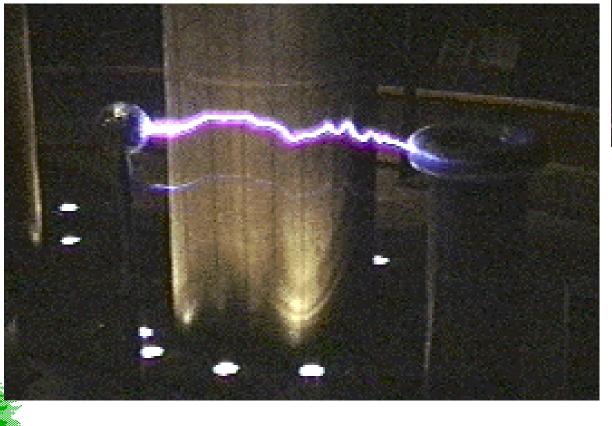








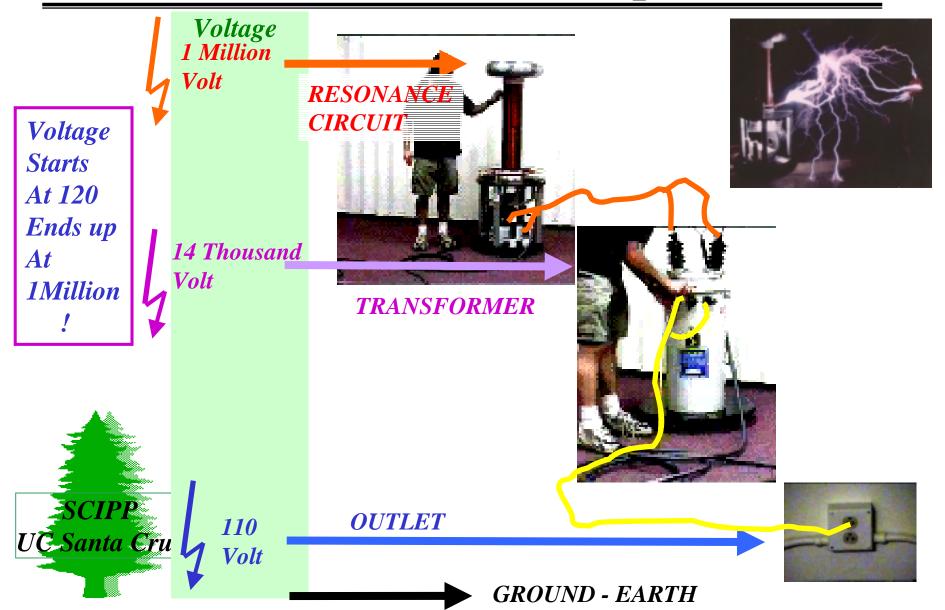




SCIPP

UC-Santa Cruz





TRANSFORMER:

POWER OUT

POWER OUT = POWER IN POWER = VOLT * CURRENT



Where have you seen this before?

You will see later a TRANSFORMER Demonstration





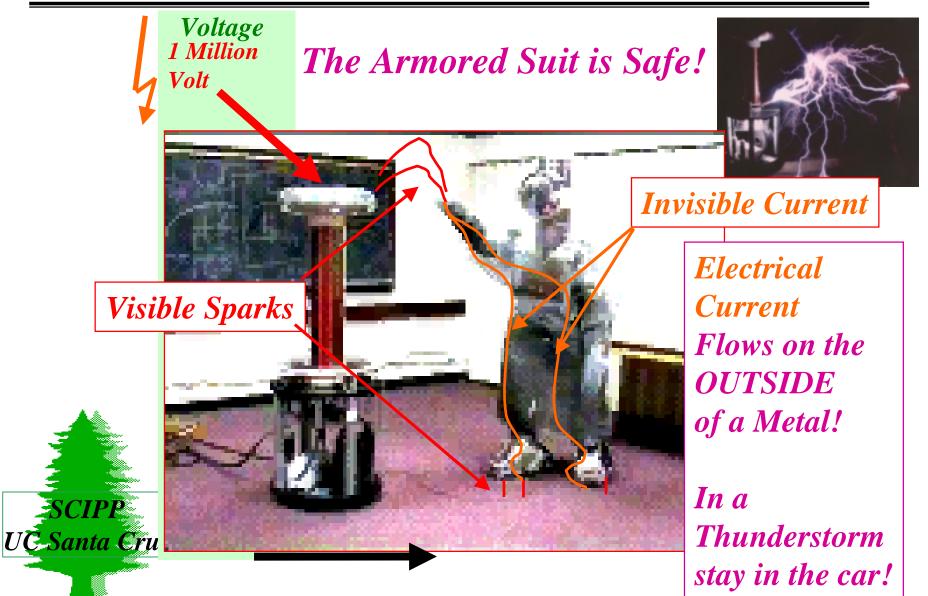


RESONANCE CIRCIUT

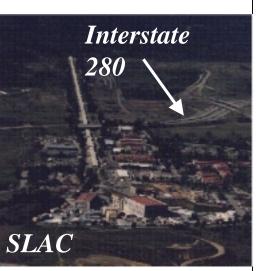




A Kick in the right Moment builds up and gets you sky-high !



Transformation of Energy:



SCIPP UC Santa Cruz Similar to the Tesla Coil, Accelerators convert Energy into new forms.

Visit the Stanford Linear Accelerator Center (SLAC): Electricity →New Particles

In Space in Black Holes: Matter →Light, X-Rays UCSC works on GLAST Mission





BLACK HOLE



Computers, game boys, CD players, telephones to the back of room - unplugged, switched off!-

Hearing aids off, pacemakers out of room

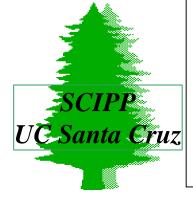


Normally you can't see, hear, smell electricity but Tesla Coil makes bright sparks loud crackling noise the air smell bad (Ozone) BRACE YOURSELF!



Program: Jacob's ladder Corona Zorro's Revenge Bulbs without wires? Transformer Knight in Armor Jumping Jacks





Thanks to our Hosts: Stuart Briber (Physics Teacher), Cari Vaeth (Principal).



