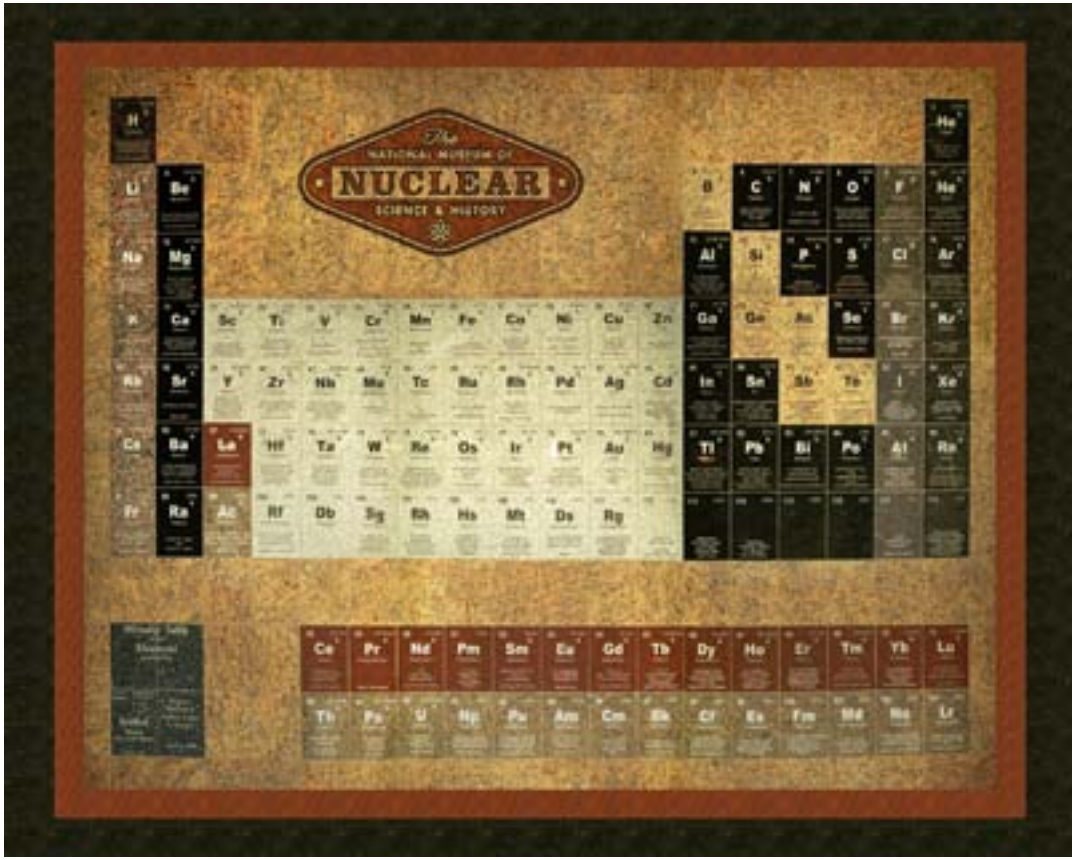
Thorium Energy Education & Outreach



Dr. Joe Bonometti

4th Annual Future of Energy Conference

May 31 –June 1 2012

Motivation

- Key Lessons Learned
  - Technologies that take years to develop and get to market will face incredible opposition
    - Electric cars
    - Directed energy for military
  - Technology that requires Government involvement will take even longer to progress
    - SpaceX supplying ISS
- Education is key to the long-term development
  - NASA's promotion of math and science at grade school level
- Sustainment of technology intensive activities must invest in maintaining a steady stream of qualified people
  - Science, Technology, Engineering and Mathematics (STEM) Education and Outreach at the DoD
- Educate the public
  - Green nuclear
  - Deaths from energy industry

The National Museum of Nuclear Science & History

- Located in Albuquerque, New Mexico
- Nation's only congressionally chartered museum in its field
- Smithsonian Affiliate member
- Privately supported

Mission is "to serve as America's resource for nuclear history and science."

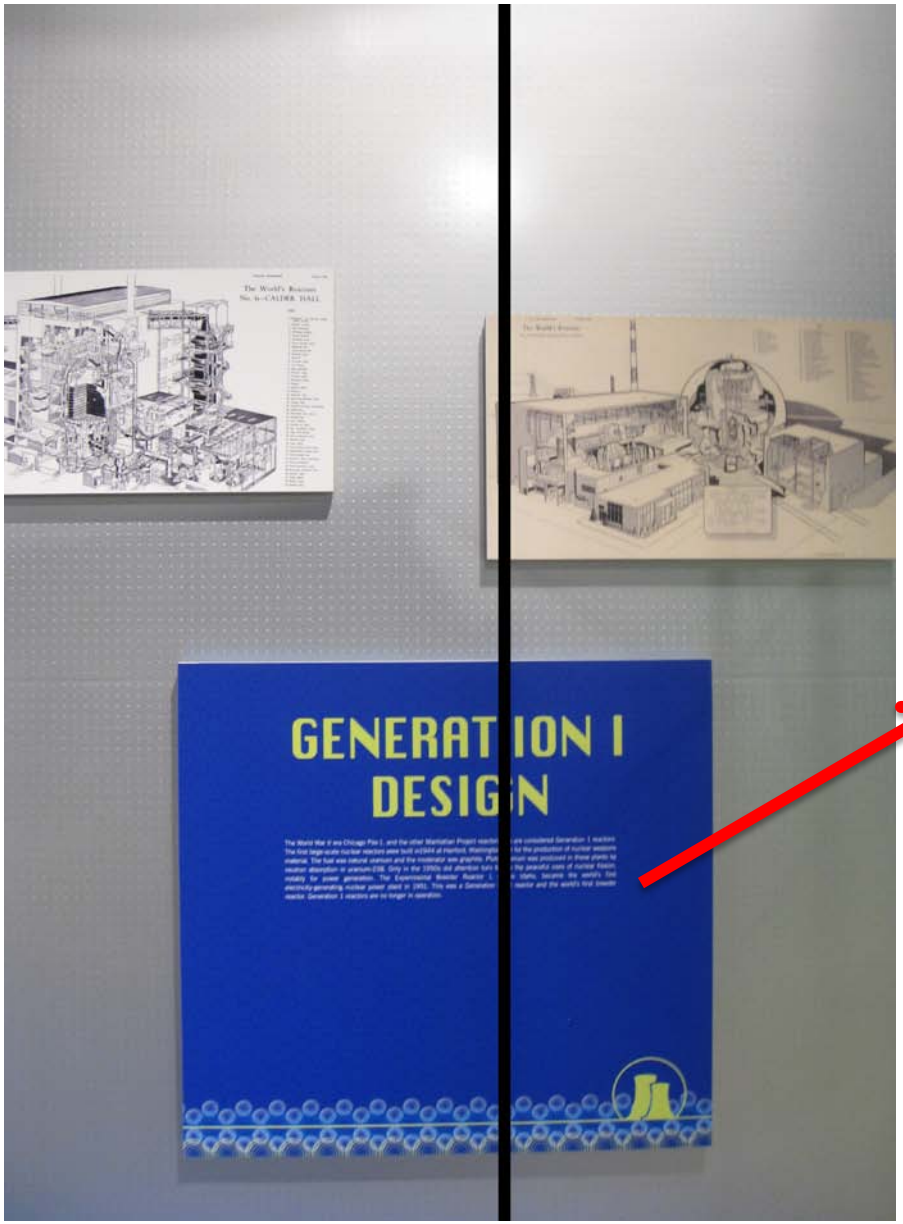
http://www.nuclearmuseum.org/

GEN IV Display

Museum is interested including advanced thorium or mobile reactor concepts!

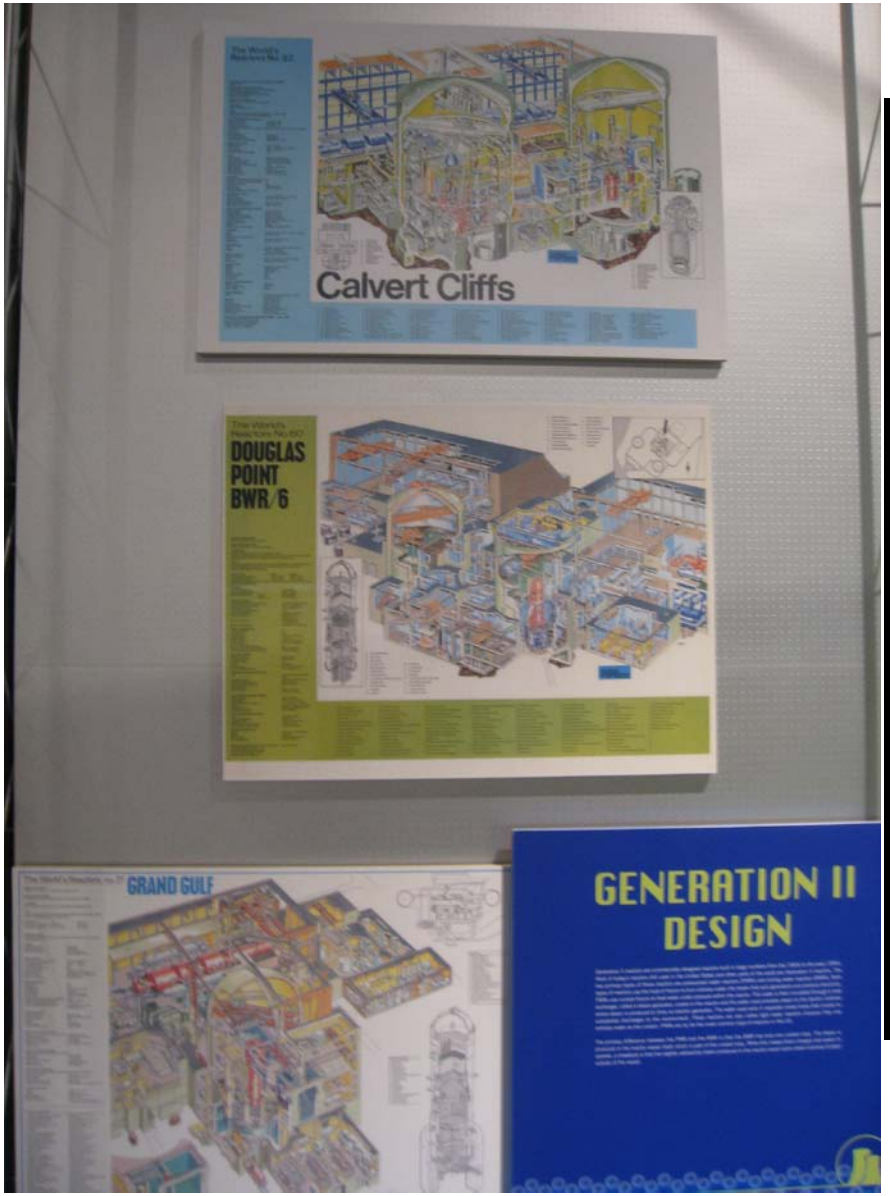
Existing Display Panel Available!

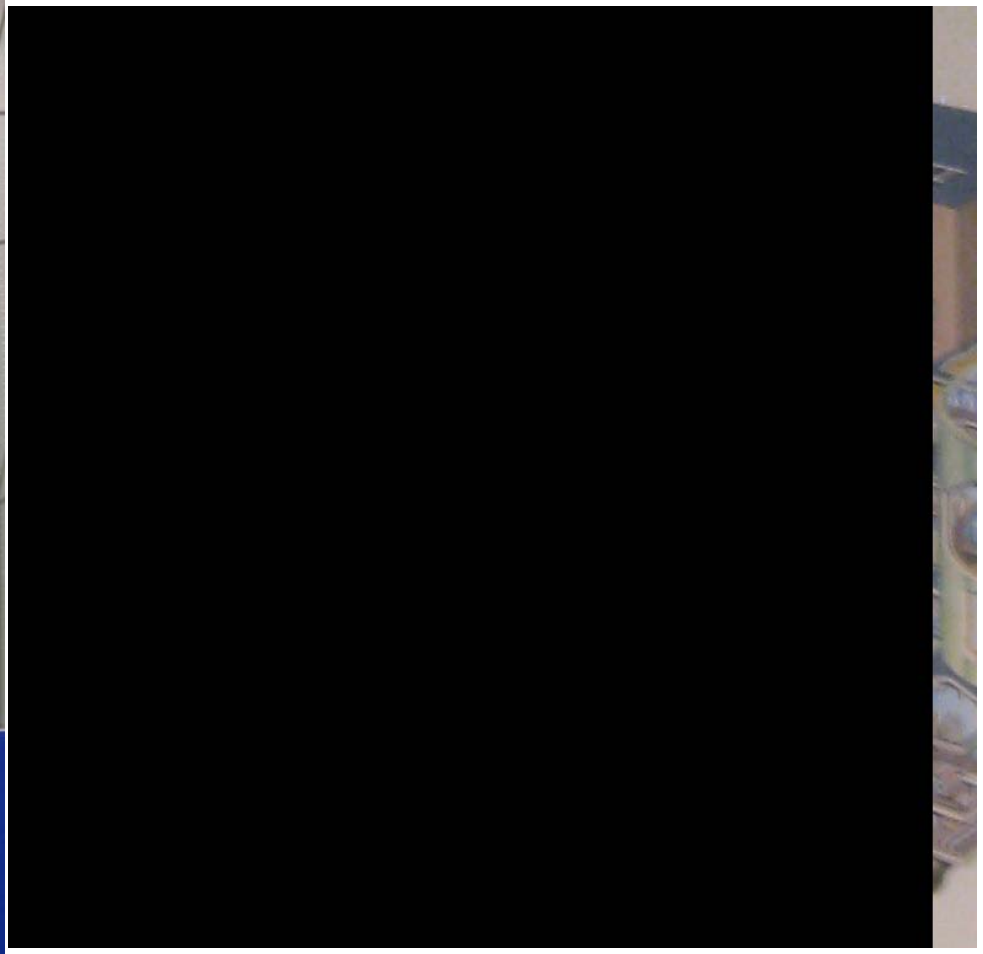
Generation I



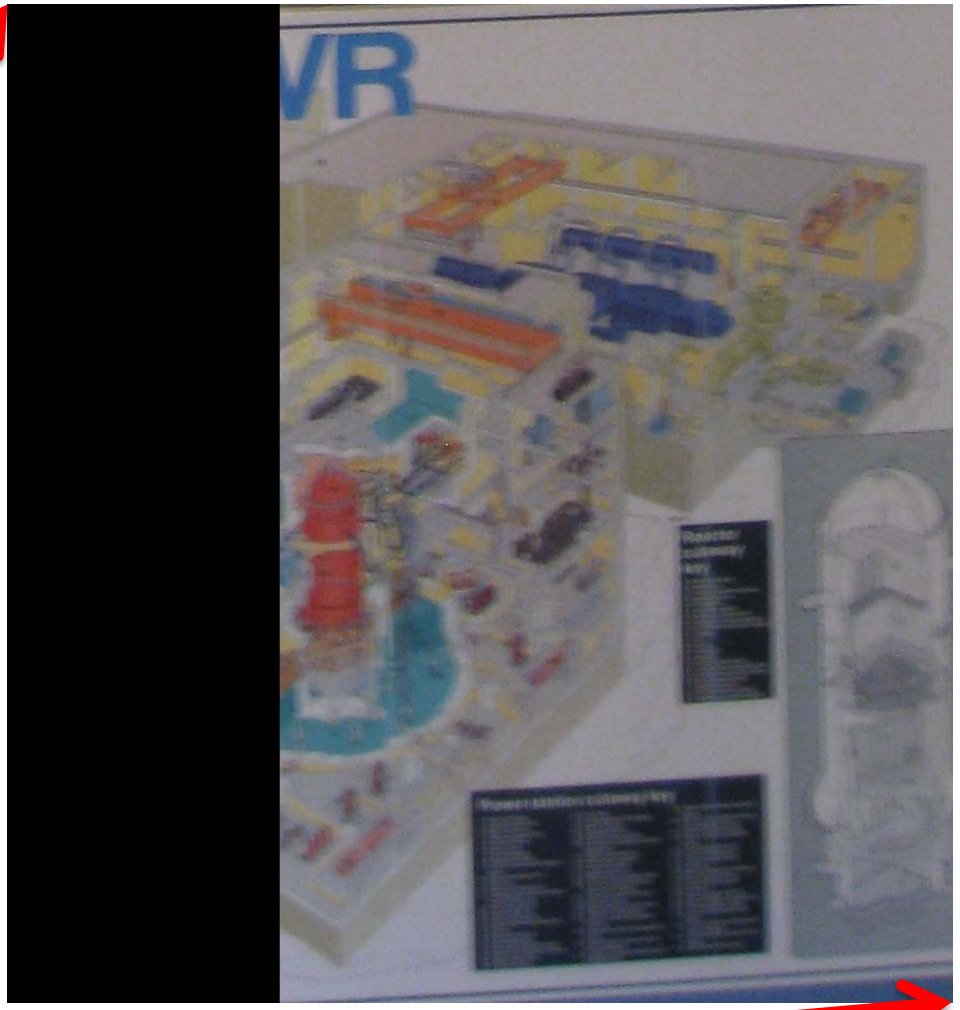
"The experimental Breeder Reactor I, in Idaho, became the world's first electricity-generating nuclear power plant in 1951. This was a Generation I reactor and the world's first breeder reactor. Generation I reactors are no longer in operation."

Gen II Details





Gen III Details



General Requirements

- Match style
  - Font size & type
  - Colors
  - Quality & Materials
- Approval by the museum technical committee
- Museum handles the fabrication and installation activities
- Cost $1,000 to $2,000

Thorium Community Proposal

- Create a thorium energy education outreach program
  - Part of T.E.A.
- Collect donations for the completion of GEN IV panel at the National Nuclear Museum
  - Goal is $2000
  - Displayed by 1 Jan 2013
- Add on video or interactive to display
  - Goal is $5000
  - Displayed by 1 Jan 2014
- Explore major interactive exhibit (hands-on) as part of the museum's special exhibition series
  - Goal is $25,000
  - Six-month program at National Nuclear Museum
  - Provide residual educational resources afterwards
  - Make travelling ‘road show’ available to other cities/groups
  - Other museum menus ORNL, Smithsonian, etc.

Suggested Panel Material

- Molten Salt History
  - Need some help/contact with ORNL
- Future Thorium Cycle
  - Diagram of thorium process in a reactor
- Small Reactor Design
  - Tractor-trailer size graphic
- Nuclear Waste Reduction Potential
  - Reduced thorium waste stream
  - Burning existing reactor waste

Pass The Hat....

- Contact Information:
  - Joe Bonometti
  - Think.Thorium@hotmail.com
  - 505-833-4121

Thank You!