Teaching the Nuclear Age
A History Institute for Teachers

Saturday and Sunday,
March 28-29, 2009

Hosted by the Atomic Testing Museum
Las Vegas, NV

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The Foreign Policy Research Institute's
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Some Thoughts From

Paul Dickler

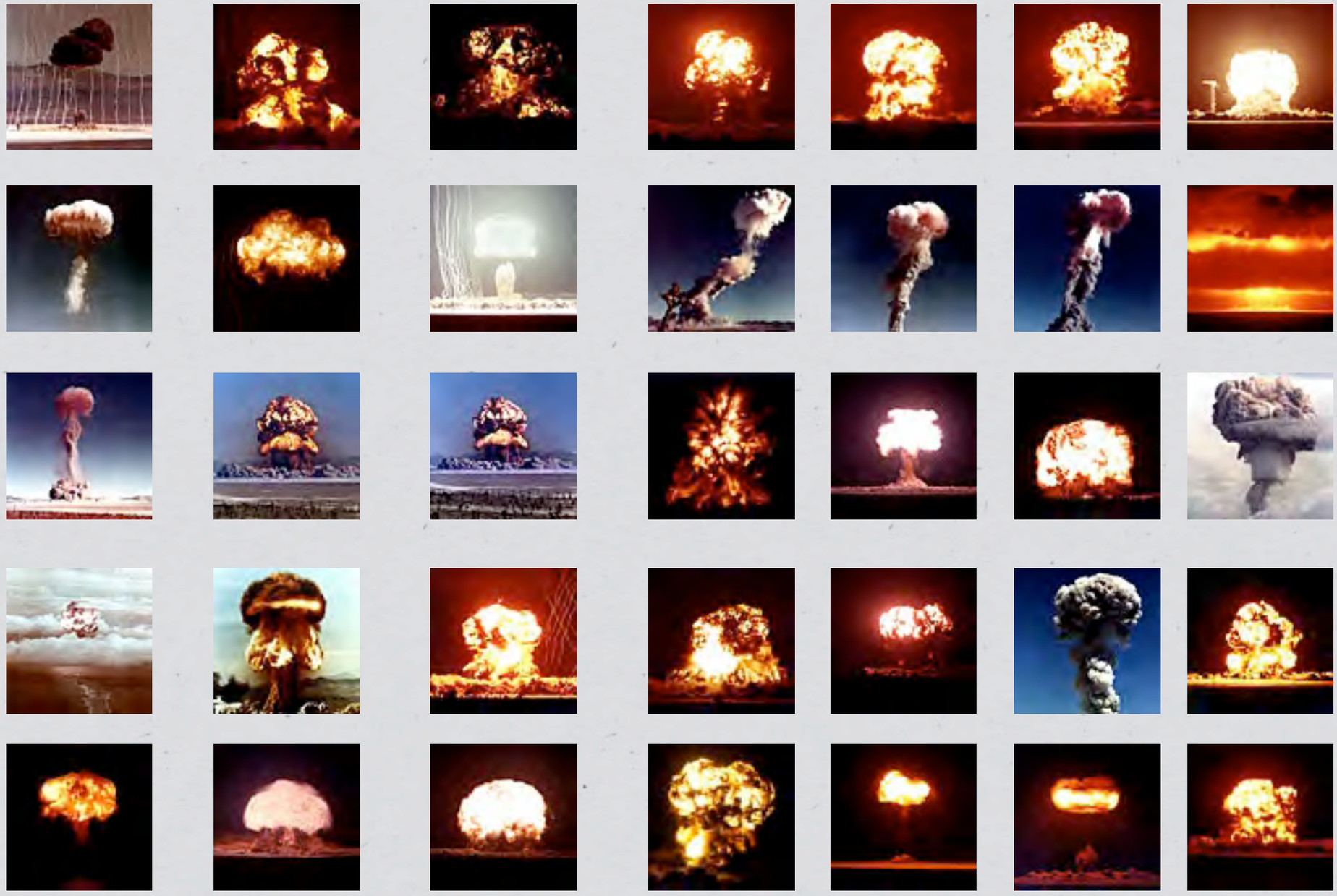
Nuclear technology has both promise and danger inherent in its applications. While nuclear weapons and nuclear power dominate the discussions, nuclear applications appear in many other fields as well:

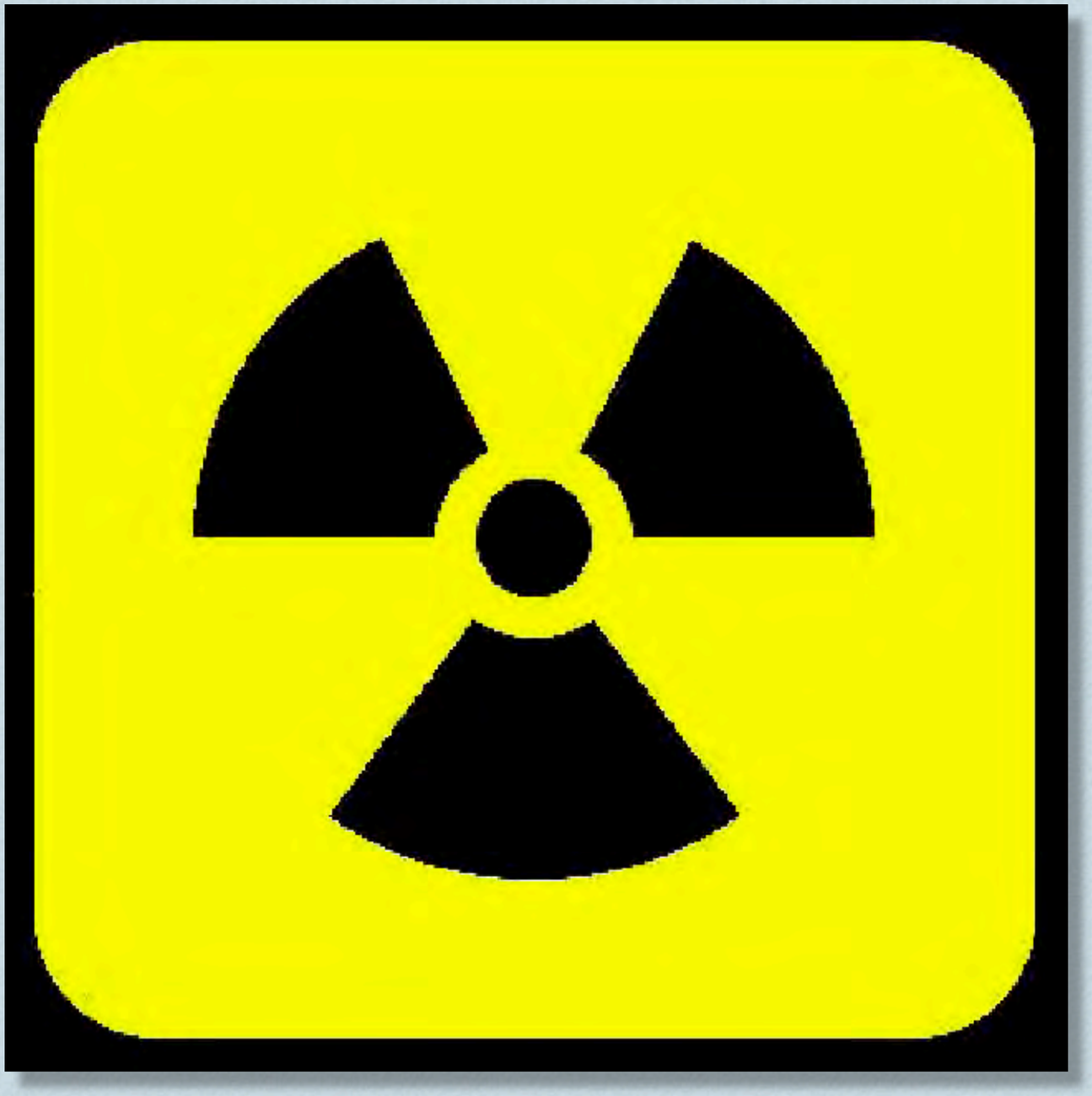
FIELD (EXAMPLE)

1. nuclear medicine (intravascular brachytherapy)
2. sterilization (bacteria, viruses)
3. genetics (auto-radiography)
4. endangered species (migration detection)
5. agriculture(crops, fertilizers)
6. geology (oil field mapping)
7. pest control (tsetse flies)
8. industrial uses (welding flaws)
9. well logging
10. gauging devices

Weighing the benefits and the dangers: Radiation has taken several hundred thousand lives.

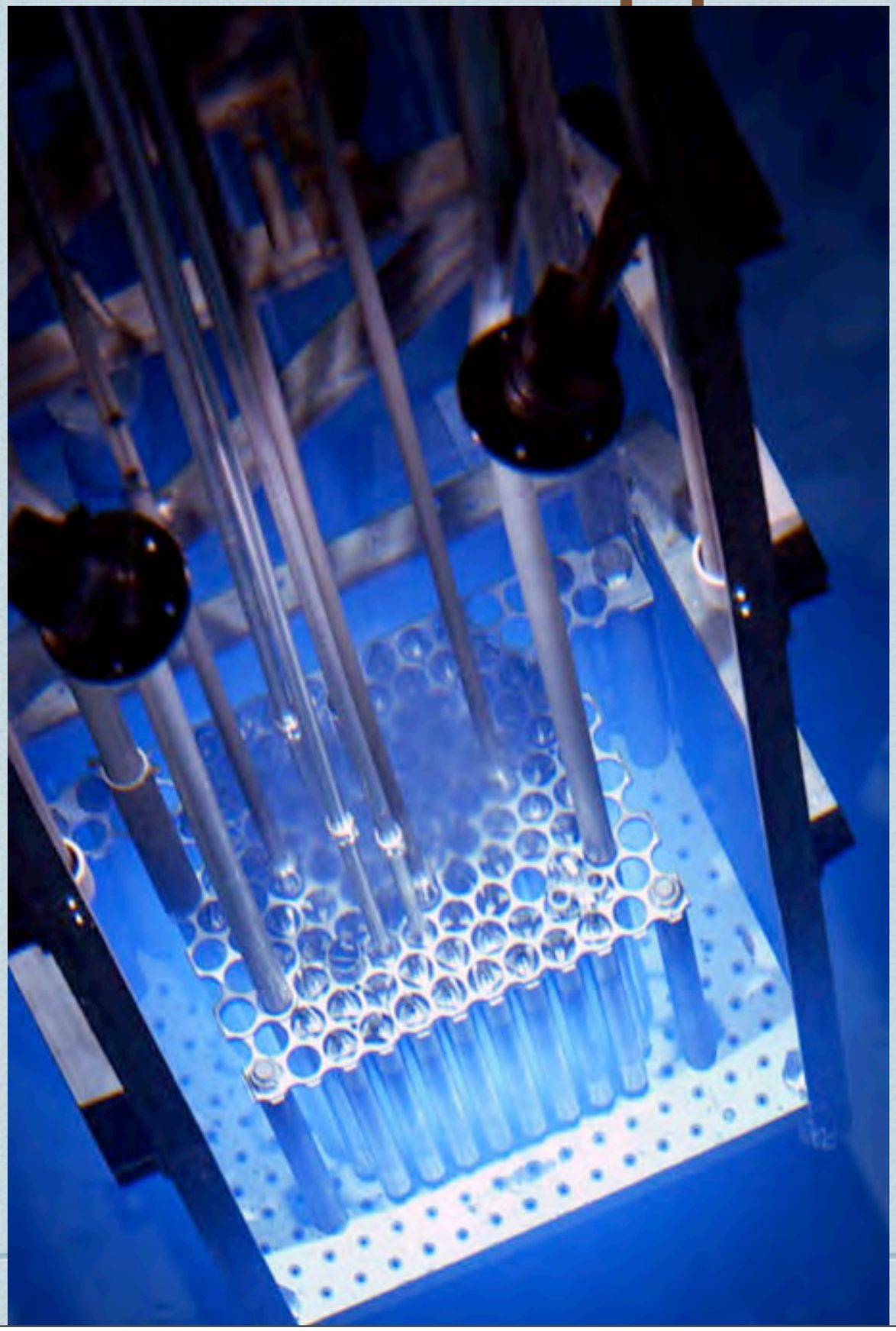
Nuclear Tests in Nevada 1951-1958





But with each passing year, it is saving thousands of lives.

Other Nuclear Applications



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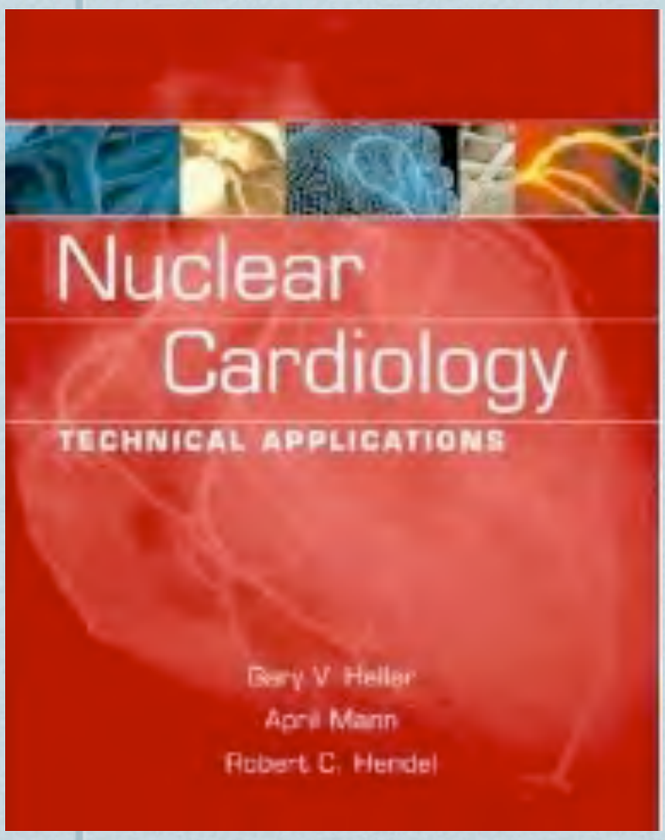
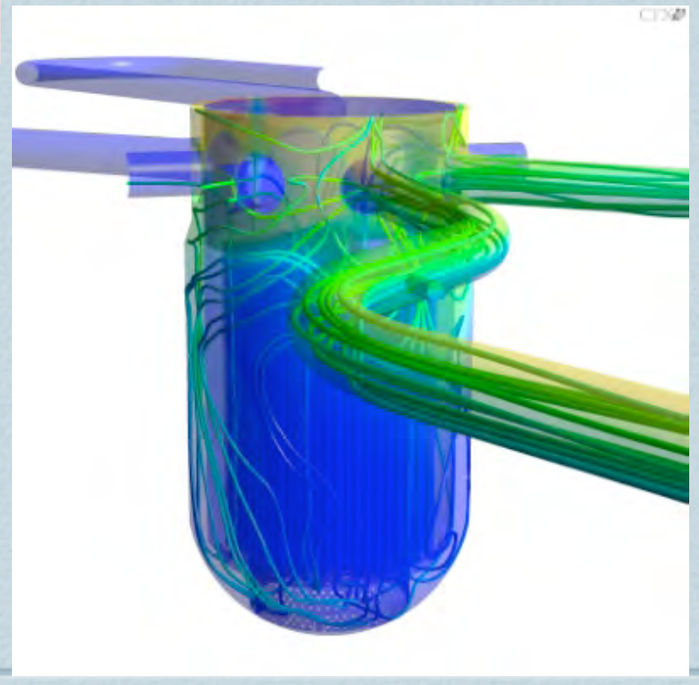
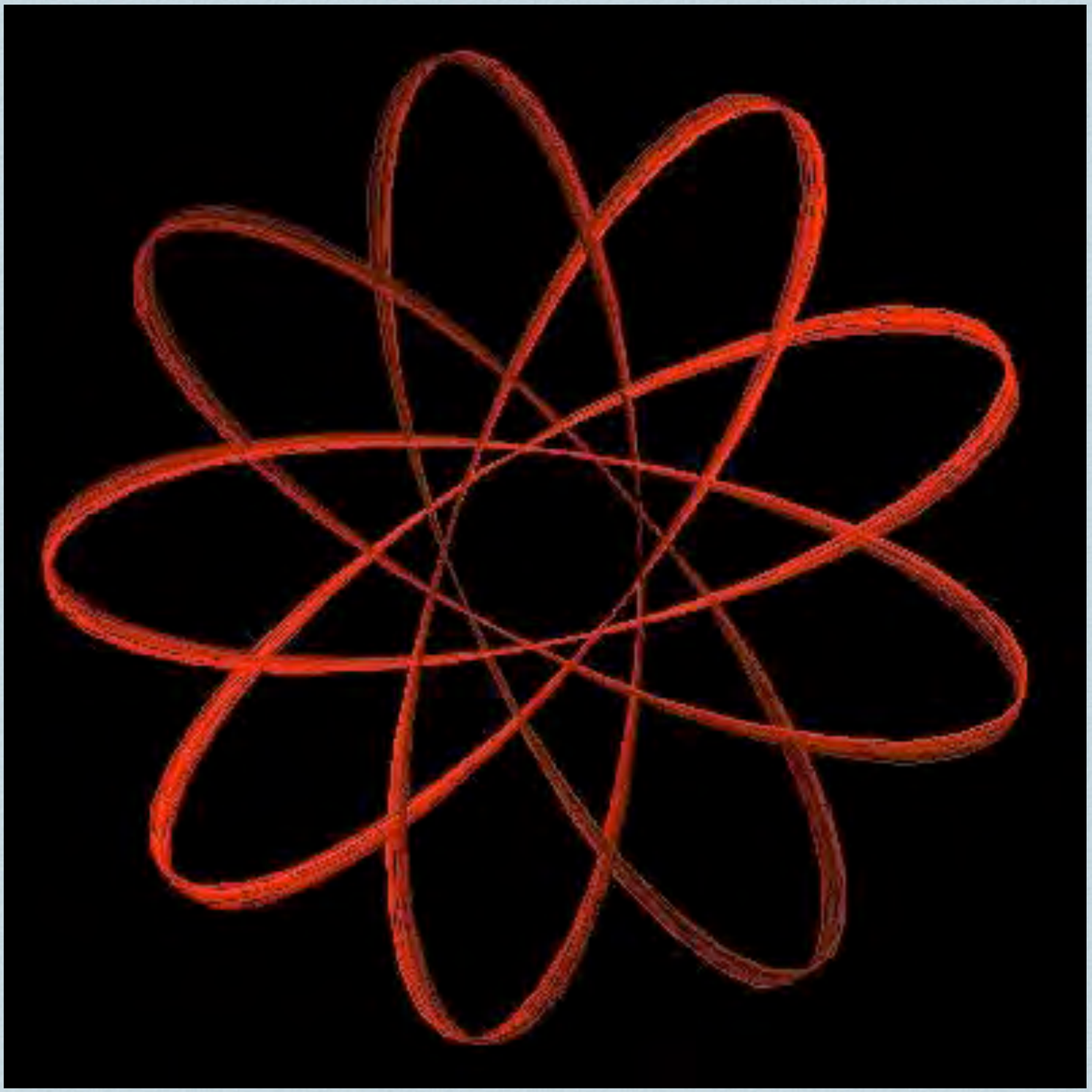
nuclear medicine

Nuclear Applications



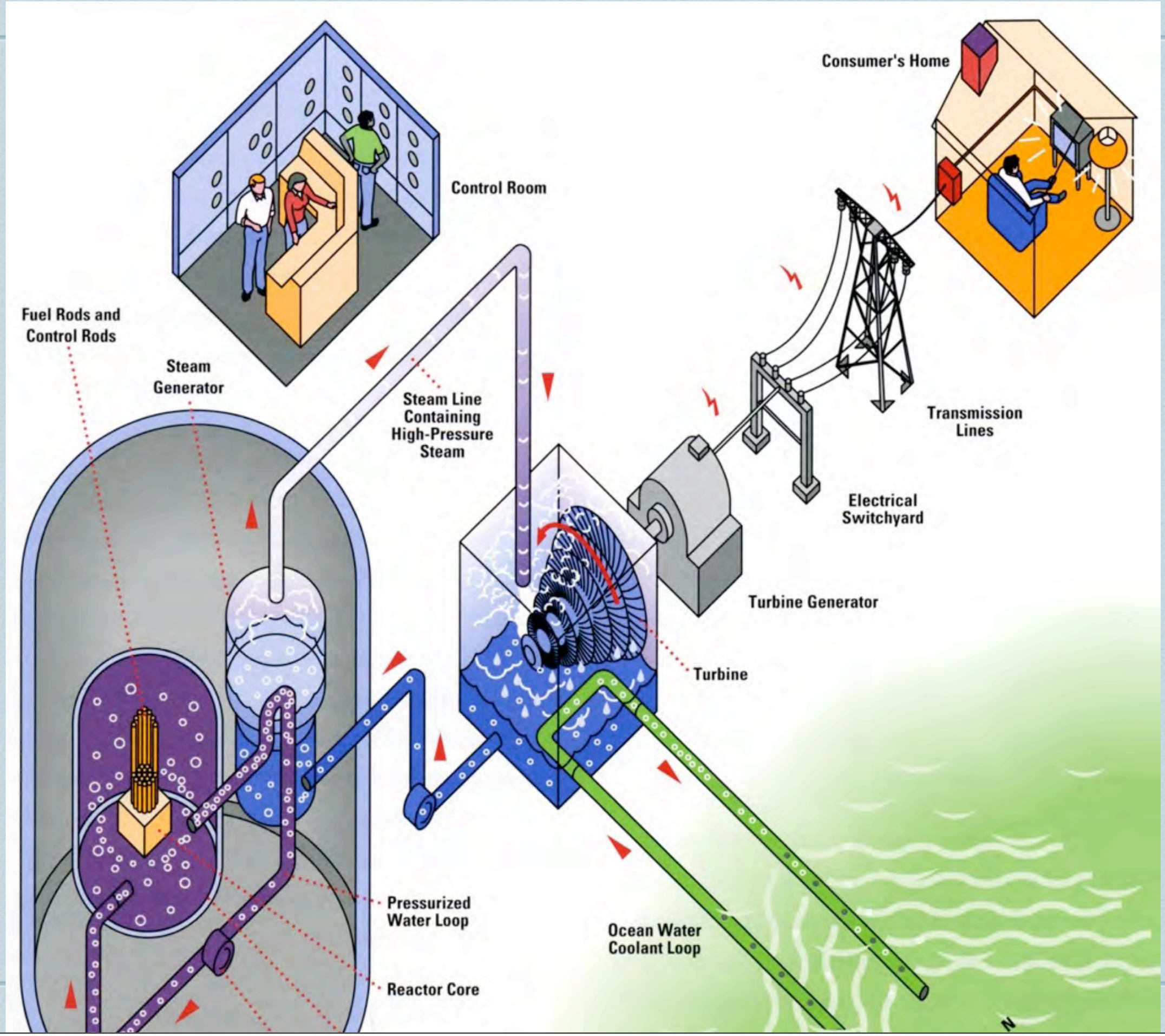


Nuclear

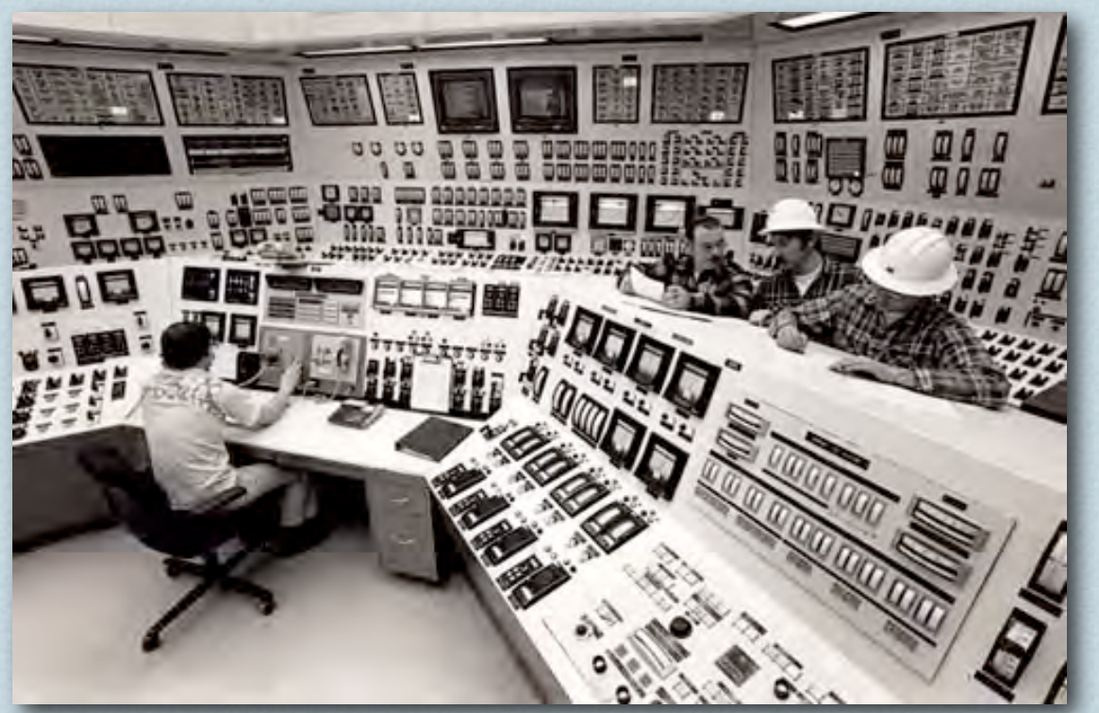


Nuclear Energy

- The Good,
- The Bad,
- and The Ugly


Consumer's Home
Control Room
Fuel Rods and
Control Rods
Steam
Generator
Steam Line
Containing
High-Pressure
Steam
Transmission
Lines
Electrical
Switchyard
Turbine Generator
Turbine
Pressurized
Water Loop
Reactor Core
Ocean Water
Coolant Loop

Control Room

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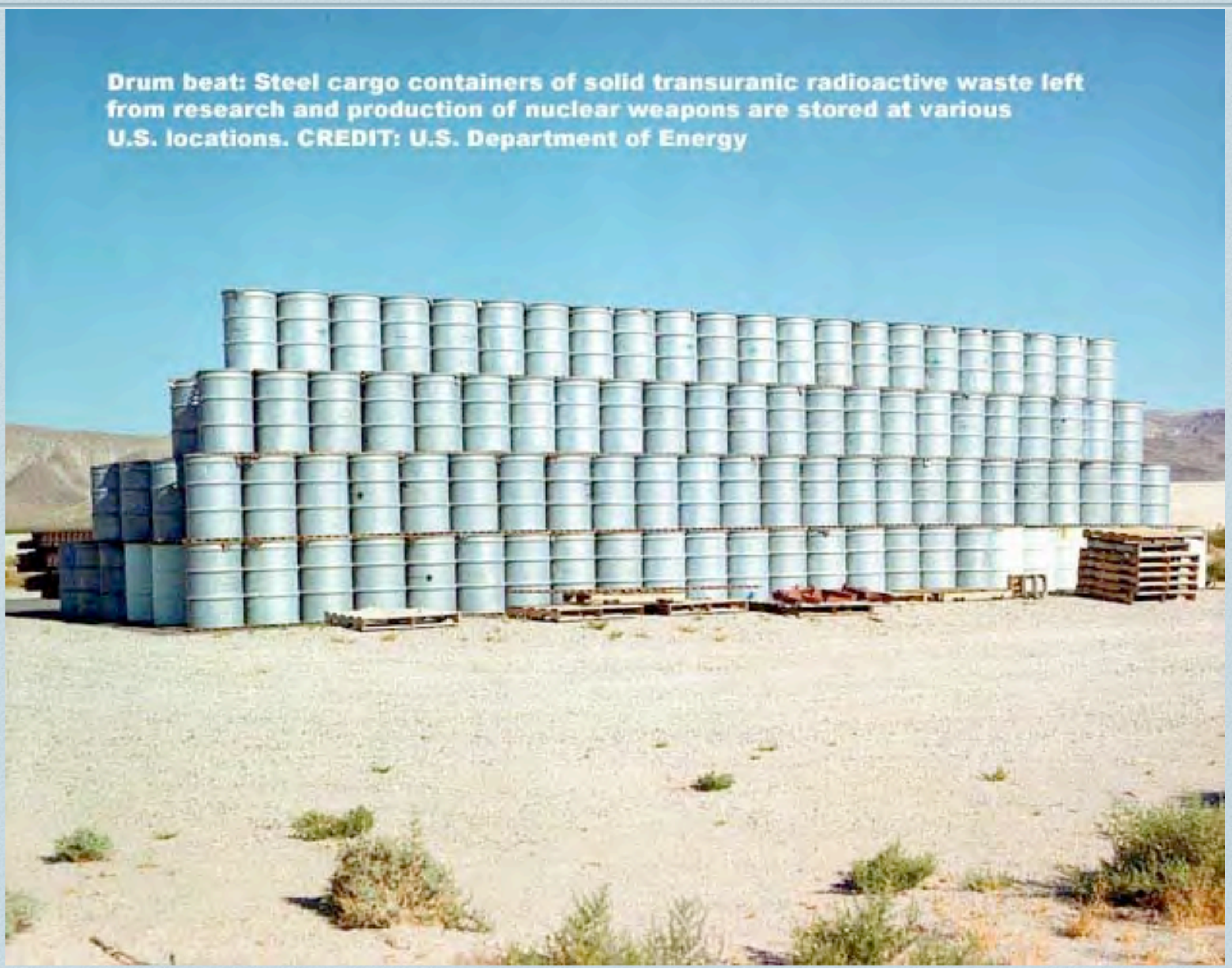
NUCLEAR
ENERGY
IS A
DEAD END
GREENPEACE



Drum beat: Steel cargo containers of solid transuranic radioactive waste left from research and production of nuclear weapons are stored at various U.S. locations. CREDIT: U.S. Department of Energy

TEACHING TECHNIQUES

- Lecture-- with or without power point.
- Research
  - share findings
  - debate findings
- Brainstorming
- Interviews or Studying Interviews
- Interdisciplinary lessons with Science classes
- Biography

Additional Techniques

- Timeline lessons
- Case Studies
- Mock Negotiations
- Field Trips
- Problem Solving
- Biographies

Presentation by

Paul Dickler