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History Of The Worlds Most
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Plutonium A History Of The

We have created a monster. The history of plutonium is as strange as the element itself. When scientists began looking for it, they did so simply in the spirit of inquiry, not certain whether there were still spots to fill on the periodic table.

Plutonium: A History of the World's Most Dangerous Element ...

Plutonium production was essential for the Manhattan Project, and scientists at institutions throughout the country were competing with isotope separation methods to create it during 1942. The first production reactor that made plutonium-239 was the X-10 Graphite Reactor, also known as the Clinton Pile,

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which went online in 1943 in Oak Ridge, TN.

Plutonium | Atomic Heritage Foundation

When plutonium was first manufactured at Berkeley in the spring of 1941, there was so little of it that it was not visible to the naked eye. It took a year to accumulate enough so that one could actually see it. Now there is so much that we don't know what to do to get rid of it. We have created a monster.

Plutonium: A History of the World's Most Dangerous Element ...

The history of plutonium requires the explaining of a lot of physics and chemistry. This was one of the most difficult books I've ever read on science history, but Bernstein does a brilliant job of communicating the science involved to the lay reader.

Plutonium: A History of the World's Most Dangerous Element ...

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Plutonium isn't found in the natural world. It is a radioactive metallic man-made element with chemistry closely relating to that of Uranium. In 1941, Abelson and McMillian discovered the first transuranic element Neptunium, element 93. N

Plutonium: History, Manufacturing, and Safety

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Plutonium is used in radioisotope thermoelectric generators, which are used to power spacecraft. The element has been used in nuclear weapons,

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including the Trinity test and the bomb that was dropped on Nagasaki.

Plutonium-238 was once used to power heart pacemakers. Plutonium and its compounds are toxic and accumulate in bone marrow. Inhalation of plutonium and its compounds increases the risk of lung cancer, although many people have inhaled substantial amounts of plutonium yet didn't ...

21 Plutonium Facts (Pu or Atomic Number 94)

Plutonium is a radioactive chemical element with the symbol Pu and atomic number 94. It is an actinide metal of silvery-gray appearance that tarnishes when exposed to air, and forms a dull coating when oxidized. The element normally exhibits six allotropes and four oxidation states. It reacts with carbon, halogens, nitrogen, silicon, and hydrogen. When exposed to moist air, it forms oxides and ...

Plutonium - Wikipedia

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The Ploutonion at Hierapolis (Ancient Greek: Πλουτώνειον Ploutōneion, lit "Place of Pluto"; Latin: Plutonium) or Pluto's Gate was a ploutonion (a religious site dedicated to the god Pluto) in the ancient city of Hierapolis near Pamukkale in modern Turkey's Denizli Province. The site was discovered in 1965 by Italian archaeologists, who published reports on their excavations ...

Ploutonion at Hierapolis - Wikipedia

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Plutonium A History Of The Worlds Most Dangerous Element [PDF]

Plutonium was first made in December 1940 at Berkeley, California, by Glenn

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Seaborg, Arthur Wahl, Joseph Kennedy, and Edwin McMillan. They produced it by bombarding uranium-238 with deuterium nuclei (alpha particles). This first produced neptunium-238 with a half-life of two days, and this decayed by beta emission to form element 94 (plutonium).

Plutonium - Element information, properties and uses ...

The element was first detected (1941) as the isotope plutonium-238 by American chemists Glenn T. Seaborg, Joseph W. Kennedy, and Arthur C. Wahl, who produced it by deuteron bombardment of uranium -238 in the 152-cm (60-inch) cyclotron at Berkeley, California. The element was named after the then planet Pluto.

Plutonium | chemical element | Britannica

History and Uses: Plutonium was first produced by Glenn T. Seaborg, Joseph W. Kennedy, Edward M. McMillan and

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Arthur C. Wohl by bombarding an isotope of uranium, uranium-238, with deuterons that had been accelerated in a device called a cyclotron. This created neptunium -238 and two free neutrons.

It's Elemental - The Element Plutonium

A Brief History On December 14, 1940, at the University of California at Berkeley, atomic scientists first isolated the element Plutonium, a radioactive element with a designation of Pu-238 on the atomic chart of the elements (also known as the Periodic Chart), Element #94 for those keeping track.

What is Plutonium? - History and Headlines

Origin of name : named after " the planet Pluto ". Plutonium was synthesized by Seaborg, McMillan, Kennedy and Wahl in 1940 by deuteron bombardment of uranium in a cyclotron (a device used to accelerate atomic particles) at Berkeley, California, USA.

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Plutonium was the second transuranium element of the actinide series to be discovered.

WebElements Periodic Table » Plutonium » historical ...

“ The Apocalypse Factory traces the pathway from the discovery of plutonium to the rise of immense production facilities in Washington State to fuel the US nuclear arsenal, with riveting details about the nearly aborted mission to bomb Nagasaki...Steve Olson leaves much to ponder, and he calls on our collective ingenuity to address the threat that nuclear weapons pose today.”

The Apocalypse Factory: Plutonium and the Making of the ...

History Plutonium is the second transuranium element of the actinide series. Element 93 was discovered in 1940/41 by Glenn T. Seaborg, Edwin M. McMillan, J. W. Kennedy, and A. C. Wahl by deuteron bombardment of

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uranium-238 in the 60-inch cyclotron at the University of California, Berkeley Lab.

Periodic Table of Elements: Los Alamos National Laboratory

SRS History Highlights The Savannah River Site was constructed during the early 1950s to produce the basic materials used in the fabrication of nuclear weapons, primarily tritium and plutonium-239, in support of our nation's defense programs. Five reactors were built to produce these materials.

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