# **137**

**RM Cervero** 

# Preparation of Megacurie Quantities of Cs-137 Salts and Source Compounds at Oak Ridge ,1965 Trophic Level Concentrations of Cs-137, Sodium, and Potassium in Forest Arthropods ,1967 Cesium, Cs-137, and Potassium Concentrations in White Crappie and Other Clinch River Fish ,1967

Preparation and Characterization of Cesium-137 Aluminosilicate Pellets for Radioactive Source Applications F. J. Schultz, F. N. Case, J. A. Tompkins, K. W. Haff, 1981 Twenty-seven fully loaded 137Cs aluminosilicate pellets were fabricated in a hot cell by the vacuum hot pressing of a cesium carbonate/montmorillonite clay mixture at 1500©C and 570 psig. Four pellets were selected for characterization studies which included calorimetric measurements, metallography, scanning electron microscope and electron backscattering (SEM-BSE), electron microprobe, x-ray diffraction, and cesium ion leachability measurements. Each test pellet contained 437 to 450 curies of 137Cs as determined by calorimetric measurements. Metallographic examinations revealed a twophase system: a primary, granular, gray matrix phase containing large and small pores and small pore agglomerations, and a secondary fused phase interspersed throughout the gray matrix. SEM-BSE analyses showed that cesium and silicon were uniformly distributed throughout both phases of the pellet. This indicated that the cesium-silicon-clay reaction went to completion. Aluminum homogeneity was unconfirmed due to the high background noise associated with the inherent radioactivity of the test specimens. Xray diffraction analyses of both radioactive and non-radioactive aluminosilicate pellets confirmed the crystal lattice structure to be pollucite. Cesium ion quasistatic leachability measurements determined the leach rates of fully loaded 137Cs sectioned pollucite pellets to date to be 4.61 to 34.4 x 10-1 © kg m-2s-1, while static leach tests performed on unsectioned fully loaded pellets showed the leach rates of the cesium ion to date to be 2.25 to  $3.41 \times 10^{-12} \text{ kg m} - 2\text{s} - 1$ . The cesium ion diffusion coefficients through the pollucite pellet were calculated using Fick's first and second laws of diffusion. The diffusion coefficients calculated for three tracer level 137Cs aluminosilicate pellets were  $1.29 \times 10-16 \text{m2s}-1$ ,  $6.88 \times 10-17 \text{m2s}-1$ , and  $1.35 \times 10-17 \text{m2s}-1$ , respectively.

# Movement of Cs-137 by Runoff, Erosion, and Infiltration on the Alluvial Captina Silt Loam ,1963

The Balances of 137 Cs, Stable Cesium and the Feeding Rates of Bluefill (lepomis Macrochirus Raf.) in White Oak Lake (thesis) Oak Ridge National Laboratory, 1969

The Effects of Biotic Complexity and Fast Neutron Radiation on Cesium-137 and Cobalt-60 Kinetics in Aquatic Microcosms H. L. Ragsdale, J. P. Witherspoon, David J. Nelson, 1968

## Biogeochemical Studies with Strontium-90, Cesium-137 and Others Yoshio Hiyama, 1961

Cesium-137 Analysis of Seawater J. N. Pascual, W. H. Shipman, 1967 Cs137 and some of the interfering K40 and Rb87 are concentrated from seawater by coprecipitation with ammonium molybdophosphate. K40 and Rb87 are separated from the Cs137 by column chromatography. In these separations zirconium phosphate is used as an ion exchanger for K40 prior to the separation of the Rb87 on Bio-Rex 40. After purification the cesium is mounted for counting as the permanganate and its chemical recovery determined by flame photometry. (Author).

# Comparative Movement of Ru-106, Co-60, and Cs-137 in Arthropod Food Chains ,1967

<u>Protection Against Radiations from Radium, Cobalt-60, and Cesium-137</u> National Committee on Radiation Protection (U.S.),1954 **Usagi Yojimbo #137** Stan Sakai, The next chapter in an exciting tale of the Red Scorpion Gang! When the bunny bodyguard

Usagi discovers the body of a magistrate's kidnapped son, a bloody showdown with the Red Scorpions ensues. How will the lone samuraia noble follower of \_bushido\_fare against this gang of unscrupulous crooks? Stan Sakai's tales of Usagi's feudal adventures are both enduring and endearingconsistently in the cream of today's comics! Sakai handles comedy, action, and even the expository scenes with energy and charm. Steven M. Bari, Comics Bulletin

Distribution of Cobalt 60, Zinc 65, Strontium 85, and Cesium 137 in a Freshwater Pond William A. Brungs,1967

Archie & Friends #137 Fernando Ruiz, Jim Amash, Teresa Davidson, Glenn Whitmore, A Night at the Comic Shop, Part One. Part
one of a two-part story that reintroduces some of the most memorable characters Archie ever published! Working at the Pep Comics
shop to get a discount on comics and a place to store his collection, Chuck is visited by his friends as he bags and boards. Suddenly,
glowing meteors from the MLJ Nebula rain down in Riverdale, including one that crashes into the shop and morphs into a door to
other dimensions! This cosmic portal leads to a world that Chuck, Archie and his friends have only ever seen in comics - a world of
talking ducks and bears, super-powered heroes and oddball beings from other planets. It doesn't take them long to realize they are in
the presence of a veritable 'who's who' of some of the greatest comic book characters ever published by Archie and its earlier
incarnation, MLJ Comics: Captain Sprocket, Cosmo the Merry Martian, Squoimy the Woim, Gloomy Gus, Judge Owl, Ginger, Suzie and
more! The trouble is, now that the 'fantasy world' has invaded the 'real world,' the 'fictional' characters seek as much a taste of reality
as possible: Wilbur and Seymour want to meet 'real' girls to date, Pat the Brat realizes there's a whole new potential audience to pull
pranks on, Cubby the Bear wants to see how earth bears live, and more. On top of it all, Super Duck and Reggie get into a no-holdsbarred shouting match! Realizing the veritable 'Pandora's Box' situation they're in, Archie decides it would best for the comic book
characters to go back through the portal to return to their own worlds, but the characters have other plans. Namely, they plan to stay
indefinitely!

California Forest Highway 137, Wentworth Springs Road, El Dorado County, 1999

Calibration Procedure for Charger Battery Analyzer AN/ASM-137 (NSN 6135-00-788-8481) and AN/ASM-137A (NSN 6130-00-238-4433). ,1993

137: Jung, Pauli, and the Pursuit of a Scientific Obsession Arthur I. Miller,2010-05-17 In 1932, the groundbreaking physicist Wolfgang Pauli met the famous psychoanalyst Carl Jung. Pauli was fascinated by the inner reaches of his own psyche and not afraid to dabble in the occult, while Jung looked to science for answers to the psychological questions that tormented him. Their rich friendship led them, in Jung's words, into the no-man's land between physics and the psychology of the unconscious ... the most fascinating yet the darkest hunting ground of our times. Both were obsessed with the far-reaching significance of the number 137--A primal number that seemed to hint at the origins of the universe itself. Their quest to solve its enigma led them on a lifelong journey into the ancient secrets of alchemy, the work of Johannes Kepler, and the Chinese Book of Changes (Yijing). This is the story of an extraordinary and fruitful collaboration between two of the greatest thinkers of the twentieth century.--From publisher description.

Reactions of Cesium-137 and Strontium-90 with Soil Minerals and Sequioxides ,19??

The Pacific Reporter ,1902

**Project 137** Seth Augenstein, 2023-12-16 WHERE HAVE AMERICA'S MISSING PERSONS GONE? As a doctor in the post-Blackout United States of America of 2087, Joe Barnes struggles to save his patients and uphold his Hippocratic Oath. Even so, he's an

idealist, and his home life is one of happy expectation as he and his wife Mary prepare to welcome their first child after a "medical miracle" makes their dream possible. But a teenaged boy dies unexpectedly on Barnes' watch and a girl goes missing, and as Barnes becomes obsessed with finding the killer, patients keep dropping dead from strange diseases that should no longer exist at the end of the 21st century. With the help of his mentor, he chases a phantom force at work in the hospital and discovers a terrifying link to a human experimentation program from the barely-remembered chaos of World War II. The forces behind the spreading pestilence threaten to spark another global cataclysm – and slaughter Barnes's young family – unless the good doctor can stop them in time.

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