



# NUCLEAR DYNAMITE

# The Interviews

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## American Scientists

- **Dr. Edward Teller**, first worked on the Manhattan project and later was the co-inventor of the hydrogen or fusion bomb which was the more powerful successor to the first fission bombs created by the Manhattan project. In 1958 he was the director of the Lawrence Livermore National Laboratory and the head of the Plowshare program. He retired in 1975 and remains Director Emeritus at Livermore where he was interviewed for this program in the fall of 1997, shortly before his 90th birthday.
- **Barry Commoner**, Originally a plant pathologist, Commoner and other scientists formed the Committee for Nuclear Information in St. Louis in the 1950s to promote public debate about radiation hazards from nuclear testing. The baby teeth campaign originated with CNI in 1957 and continued until the test ban treaty of 1963. He currently manages the Center for the Biology of Natural Systems, a research organization attached to Queens College in New York. The collection of baby teeth has been revived recently by researchers studying the impact of nuclear power plants.
- **Freeman Dyson**, Born in England, Dyson attended university in England and the US, and was a professor of physics at Cornell University in 1951. In 1953 he joined the Institute for Advanced Study in Princeton where he is currently Professor Emeritus. Dyson joined physicist and weapons designer Ted Taylor in the early research on the Orion nuclear-pulse-powered rocket, and was planning to travel to Mars and Saturn in the rocket.
- **John Gofman**, former director of the Biomedical Division at Lawrence Livermore National Laboratories became an outspoken critic of Project Plowshare and has written extensively on radiation hazards.
- **Fred Holzer**, Engineer. Holzer helped to develop methods for measuring the yield of underground atomic explosions. His work helped to lay the foundation for verification methods for current arms control treaties.
- **Joe Knox**, Plowshare, developed computer models to predict distribution of fallout from Plowshare excavations. His work has been elaborated and extended by the Atmospheric Release Advisory Center at the Lawrence Livermore National Laboratories which supplied the graphic simulations of radioactive dispersion from a hypothetical Panama excavation and from Chernobyl.
- **Paul Kruger**, consultant and engineer. Kruger developed a civil engineering course on the use of nuclear explosives at Stanford University. By 1968, 22 universities were offering related courses.
- **Milo Nordyke** originally a cratering expert for Project Plowshare, Nordyke was a member of the US delegations that negotiated a draft PNE treaty in 1976 and the Comprehensive Test Ban Treaty in 1977-80. He has written a book about the Soviet peaceful nuclear explosions program.

## Russian Scientists

- **Academician Evgeniy Avrorin**: Head of the Scientific Division, Russian Federal Nuclear Centre, Avrorin developed the special explosives used at the Kama Pechora canal excavation experiment. He and his colleagues are also part of the US-Russian Joint Verification Experiment in monitoring international test ban treaties.
- **Academician Victor N. Mikhailov**, former participant in the Soviet program of "Peaceful Nuclear Explosions for the National Economy", later Minister of Atomic Energy and current Deputy Minister, Russian Ministry of Atomic Energy (MinAtom).
- **Vadim Simonenko**, Deputy Scientific Director, Russian Federal Nuclear Centre. He is currently participating in international symposia on the potential use of nuclear explosives to divert asteroids.
- **Nikolay P. Voloshin**, witness to the Russian use of nuclear explosives to extinguish a gas well fire. He participated in experiments using nuclear explosives to strip away overburden and uncover ore bodies. He is currently Head of Weapons Design, MinAtom.

**Canadian Narrator, Interviews**

- **David Suzuki**, the narrator of Nuclear Dynamite, is an award-winning scientist, environmentalist and broadcaster. Trained as a geneticist, he is a professor at the University of British Columbia's Sustainable Development Research Institute. He is also the Chair of the David Suzuki Foundation, and the well known host of the Canadian Broadcasting Corporation's popular science television series, *The Nature of Things*.
- **Dr. Ursula Franklin**, physicist, professor emerita at Massey College, University of Toronto. She is a founding member of the Voice of Women, and an organizer of the baby teeth campaign in Canada
- **Phyllis Margolick**, local organizer for the "baby teeth" campaign in Montreal, and a founding member of the Committee on Radiation Hazards in the late 1950s which included Rene Levesque and Pierre Trudeau.

**Alaskan Interviews**

- **Elijah Attungana, Joe Frankson, Earl Kingik, George Kingik, Rex Tuzroyluk**. Inupiat residents of the village of Point Hope, in Alaska. Earl Kingik is the wildlife officer for the Native Village of Point Hope.
- **Keith Lawton**, former Episcopalian Minister at Point Hope at the time of the proposed nuclear experiment in 1960, and an active opponent of the nuclear excavation. .