

INDUSTRIAL NUCLEONICS' FOUNDERS' HISTORY is DOCUMENTAED in VARIOUS LOCAL AND NATIONAL PUBLICATIONS

August 14, 1951, Columbus Newspaper "Local Firm Utilzes Atom Engergy in Industrial Gauge" including an interview with Bert Chope one of the three founders of Industrial Nucleonics

Nov. 23, 1952, Columbus Newspaper "Nucleonics—Modern Alger Story" describes Industrial Nucleonics' rapid growth to 150 employees in the first year

Sept. 16, 1961, New York Times "Paper Smoothed by Nuclear Energy; Manufacturing Operations Aided by Nuclear Energy"

August 6, 1955, Columbus Newspaper "Local Men Put Atoms On Productions Jobs" describes the founders as very motivated to develop systems for industrial processes to save their customer's raw materials

Sept. 1956, Fortune Magazine

Jan. 16, 1983, Columbus Newspaper "AccuRay"s genesis found in post-WWII nuclear technology" describes the founders education and where they obtained their ideas for industrial measurement systems

October 1989, American Society for Nondestructive Testing Magazine "Early Development of Process Automation with Nucleonic Measurement Gages" describes the three founders' formal education and their employment before starting Industrial Nucleonics

INDUSTRIAL NUCLEONICS & ACCURAY BRIEF HISTORY

Industrial Nucleonics Corporation was the brainchild of brothers, Bert and Roy Chope and their friend George Foster. This threesome started the company in April 1950 in a garage in Columbus, Ohio.

Their goal was to develop, sell and service devices using radioactive materials to very accurately measure the physical properties of industrial products while they were being manufactured in continuous processes as rubber tire fabric, paper, plastics, steel, aluminum, cigarettes and other products.

These measurement systems, with the trade name of AccuRay, quickly proved to be far more accurate than anything else on the market and permitted their customers to achieve quite significant savings in raw materials and costs.

As the company grew the family of measurement sensors expanded to include other energy sources including x-rays, radio frequencies, infrared, microwaves, visible light, and air bearings to very precisely measure additional physical properties of the industrial products instantaneously as they were being produced. This lead naturally to development of fully automated control systems to both measure and control, many variables in the industrial processes.

The result for the customers was higher quality products made at lower costs.

[IN \(AccuRay\) Measurement Systems Customer List from 1951 to 1955 with application and product information.](#)

In the mid-1970s the Company changed its name to AccuRay Corporation.

Combustion Engineering [CE] acquired this public company in a hostile securities takeover in 1987.
In 1990 CE sold out to the international conglomerate ABB.

Thus, the original high tech company went through four name/ownership changes in its history. It is still a part of ABB today.



**IN'S FOUNDERS BERT CHOPE, ROY CHOPE AND
GEORGE FOSTER AT WORK IN 1953**

Henry Roy Chope 1921-1985

Born in Louisville, Kentucky — World War II Army Air Force, Radiological and Meteorology Specialist, Pacific Theater — B.S. Electrical Engineering, Ohio State University, M.S. Electrical Engineering, California Institute of Technology — Science Masters Degree in Engineering Science, Harvard University.

One of three who founded Industrial Nucleonics in Columbus, Ohio in 1950 — the first company to pioneer the peace time industrial use of atomic energy.

Mr. Chope held 65 patents and authored many papers which were published in scientific journals

He was recognized countless times for his great visionary gift regarding the peaceful use of electronics and nuclear energy for the betterment of mankind.

Roy and Lois Chope had four children — Betsy, David, Amy, and Charles. In Ohio, He was a member of the Upper Arlington Rotary and Upper Arlington Lutheran Church.

Wilbert [Bert] E. Chope 1923-1983

Born in Louisville Ky, he was husband to Joanne [Begg] Chope.

Mr. Chope was founder and past president of Industrial Nucleonics Corporation of Columbus Ohio, a company that develops, manufactures and markets digital computer—based automation and management information systems.

He received several honors, including recognition by the US. Junior Chamber of Commerce in 1957 as one of the Ten outstanding Young Men in the US.

He attended Vanderbilt University, Nashville, Tenn, received a bachelor's degree in electrical engineering in 1948 from Ohio State University, Columbus Ohio and an honorary doctor of science degree in 1966 from Muskingum College, New Concord Ohio.

Mr. Chope was chairman of the board of trustees of World Neighbors Inc. of Oklahoma and a member of the Plymouth Congregational Church in Miami.

He also was a former member of the executive committee of South Florida Boys Scouts Council, former member of the board of trustees of Gulliver Academy, former chairman of the research and development committee of the Columbus Area Chamber of Commerce, former member of the executive committee of the Ohio Research and Development Foundation and a member of fraternal organizations.

Mr. Chope was survived by wife Joanne Begg Chope, son Douglas Begg Chope of Coral Gables and Cotuit and a daughter Katherine Begg Chope of Coral Gables and Cotuit Mass.

George B. Foster 1919-2015

George Foster, inventor, entrepreneur, and award-winning champion of the practical application of new technology, died of natural causes September 28, 2015. He was 96.

Mr. Foster was a prolific inventor with more than 50 patents. Starting in the 1950s, he founded AccuRay Corporation, RayData Corporation, Autech Corporation, Foster AirData Systems, Foster Technology, Foster Biotechnology Corp., the Business Technology Center and the Columbus Investor Group.

He was a visionary, working tirelessly on the next invention or business with optimism and enthusiasm that was contagious. When any of his businesses grew large enough, he left to start something new.

He received numerous awards including the Small Business Innovator Award presented by President Ronald Reagan, the Albert F. Sperry Award, the Kermit Fisher Environmental Award, Aircraft Electronics Association's Manufacturer Of The Year Award and The Christopher Columbus Award presented by the Mayor of Columbus, Ohio. Franklin University gave him an honorary Ph.D.

He was a visiting lecturer in the Graduate School of Business and the College of Engineering at The Ohio State University and on the advisory board of the College of Engineering at Franklin University.

Foster served in the Navy from 1941-1946, achieving the rank of Lt.Commander.

Among George Foster's many public service activities, his favorite was the Jefferson Academy of Music, promoting excellence in music education. His hobbies included baroque music, economics, political science, computers, ham radio, flying, history and French. With his wife, Mary (who died in 1992), he fathered four children, George Jr., Charles, Roger and Margaret who are still living. He called himself "Daddy-O" and his most repeated phrase was "that's good!". His ashes are placed next to those of his wife, Mary, at St. John's Episcopal Church in Worthington, Ohio.

David L. Nelson Life Story (Obituary) 1930-2015 [IN/AccuRay CEO from 1970 to 1986]

David L. Nelson was born on May 8, 1930 in Omaha, Nebraska and died peacefully at home in Alexandria, Virginia on April 26, 2015. He was married for 62 wonderful years to his high school sweetheart, Jacqueline Jo (Zerbe) Nelson, also from Omaha, Nebraska.

David Nelson obtained his Bachelor of Science in General Engineering. In 1952 from Iowa State University and had been awarded a 4 year NROTC Scholarship during his time there. He was elected to Tau Beta Phi, Phi Kappa Phi and Phi Eta Sigma honoraries, and was elected President of Delta Upsilon social fraternity. He served in the active duty United States Marine Corp from 1952 to 1954, stationed in Japan with the Third Marine Division, and continued in the US Marine Corp Reserve from 1955 to 1961, rising to rank of Captain. Always Semper Fidelis, he demonstrated lifelong loyalty to the Marine Corp, his family, his colleagues, and his friends and neighbors.

After starting his career as an engineer at Ingersoll Rand Company, in Chicago, Illinois, David became a successful business executive for companies engaged in process automation for a wide variety of industries.

Before age 40 he became president of AccuRay Corp. just after it became a public company, and he joined the Young Presidents Organization (YPO). He continued working until he was 74 years old.

His executive positions included, among others: President and Chief Executive Officer of AccuRay Corp. from 1970 to 1986 in Columbus, Ohio; President, Process Automation business, of Combustion Engineering Inc. from 1987 to 1989, in Columbus, Ohio; President, Business Area Process Automation, of Asea Brown Boveri Inc., from 1990 to 1991, in Stamford, Connecticut. He was a member of the Board of Directors of Herman Miller Inc. from 1972 to 1995 and then served as Chairman of the Board of Directors of Herman Miller Inc. from 1995 to 2000, in Zeeland, Michigan.

Despite all the titles and honors, David was best known among his coworkers, family and friends as an unfailingly modest man who took the time and had joy in helping others by mentoring throughout his life.

JAMES A. RINEHART, 1912-2006

Business manager loved helping others

James A. Rinehart, 94, a career businessman who enjoyed helping entrepreneurs start successful businesses, died Friday in Whetstone Care Center, Columbus, of liver cancer.

Mr. Rinehart grew up in Tecumseh, Mich, and graduated from Adrian High School.

He met his wife of 67 years, Letha Rinehart, while he was cleaning beer coils at a restaurant she worked at in her hometown of Onsted, Mich.

Upon his graduation from Harvard Business School, the Rineharts moved to Upper Arlington, Ohio, near Columbus.

Mr. Rinehart worked for Industrial Nucleonics, later called AccuRay Corp., in Columbus as a manager for 23 years. The company produced industrial machinery and instruments such as thickness gauges for paper materials. Mr. Rinehart was a dedicated, hard-working man, his wife said. "He always went back to work in the evenings," she said. "He came home for his dinner and went back to work."

Even after retirement, he went to work for H&R Block for an additional 20 years. "He had to give himself something to do," Mrs.Rinehart said.

Mr. Rinehart was also a counselor for Service Corps of Retired Executives, where he shared his business experience and work ethic with younger generations. Mrs. Rinehart said she's heard from a lot of people who attended his SCORE classes, and they all had great things to say about her husband.

"He left a lot of people that admired him, and the advice that he gave them was what they wanted to hear," she said.