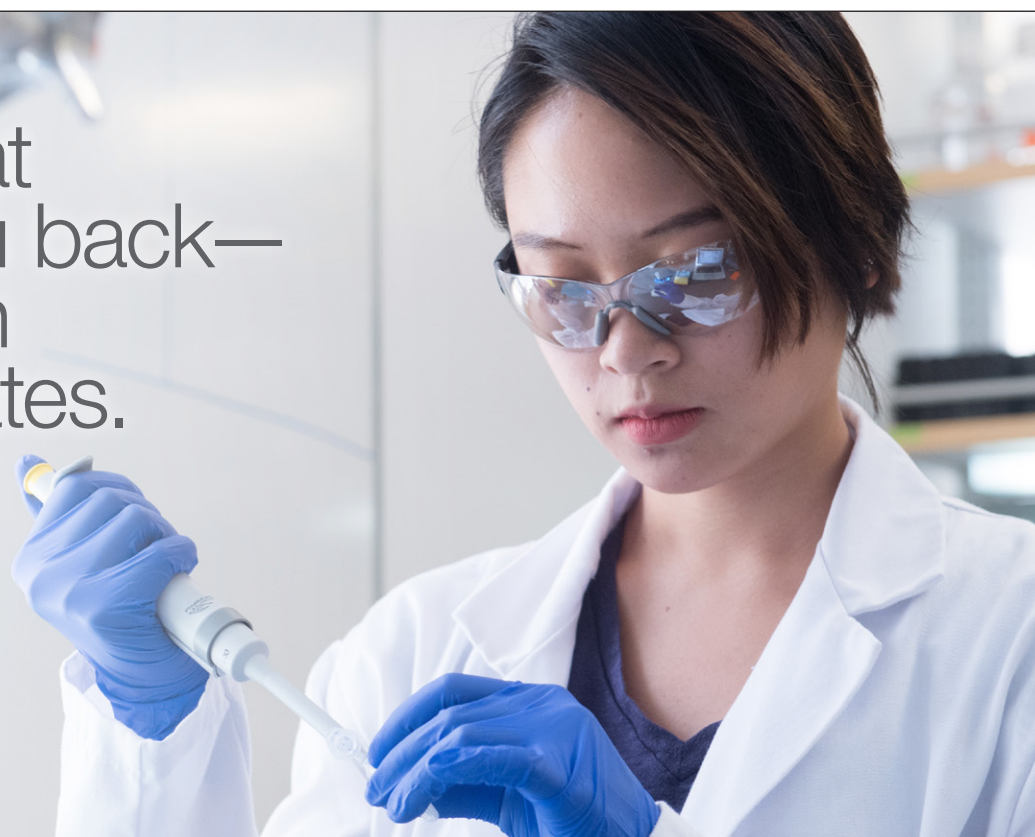


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Sample annuity rates for a \$100,000 gift.

Age	New Rate	Old Rate	Annual Annuity
60	4.5%	3.9%	\$4,500
65	4.8%	4.2%	\$4,800
70	5.3%	4.7%	\$5,300
75	6.0%	5.4%	\$6,000
80	7.0%	6.5%	\$7,000
85	8.1%	7.6%	\$8,100

*The minimum to fund a charitable gift annuity is \$25,000.

Please note that this information is provided for illustrative purposes and is not intended as tax or legal advice. Rates are subject to change and are based on rates suggested by the American Council on Gift Annuities.

In Memoriam

Read more about their lives at magazine.caltech.edu/post/in-memoriam

Richard Albert Dean (1924–2022)



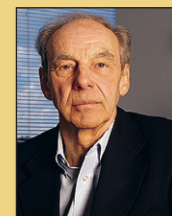
Richard Albert Dean (BS '45), a professor of mathematics at Caltech from 1955 to 1987, passed away on January 27, 2022, at age 97. Dean's achievements in mathematics include showing that the word problem in a finite presented lattice (a certain type of algebraic structure coming from order theory) is solvable. He later applied lattice theory to problems in economics.

Leon T. "Lee" Silver (1925–2022)



Leon Silver (PhD '55), W. M. Keck Foundation Professor for Resource Geology, Emeritus, at Caltech, passed away on January 31, 2022, at age 96. When Silver joined the Caltech faculty as an assistant professor of geology in 1955, he served as a geologist in the newly formed geochemistry group and studied geological formations in Arizona and the San Gabriel Mountains while also working for the U.S. Geological Survey. Silver later instructed Apollo astronauts on geology and lunar sample selection and developed approaches for using isotope ratios for geochronology.

Juris Hartmanis (1928–2022)



Distinguished Alumnus Juris Hartmanis (PhD '55), founding chair of Cornell University's Department of Computer Science, passed away on July 29, 2022, at age 94. Hartmanis was widely recognized for establishing the field of computational complexity theory. He discovered a set of fundamental laws that govern the difficulty of computation, laying the foundation for a comprehensive theory of the efficiency and limits of computing. At Cornell, Hartmanis built one of the world's first computer science departments.

Thomas G. Phillips (1937–2022)



Thomas G. Phillips, the John D. MacArthur Professor of Physics, Emeritus, passed away on August 6, 2022, at age 85. Phillips was a pioneer in observational astronomy. In the 1980s, he led the development of Caltech's Owens Valley Radio Observatory (OVRO) millimeter-wave interferometer as well as the Caltech Submillimeter Observatory (CSO) in Hawaii. In the late 1970s, while at Bell Laboratories,

Phillips led the design and optimization of a new type of detector for submillimeter astronomy called the SIS receiver (for superconductor-insulator-superconductor), which enabled the recent black hole images produced by the Event Horizon Telescope Collaboration (see page 30), and much more.

Maarten Schmidt (1929–2022)



Maarten Schmidt, Francis L. Moseley Professor of Astronomy, Emeritus, passed away on September 17, 2022, at age 92. Schmidt is well known for his 1963 discovery of quasars—extremely bright and distant cosmic objects powered by active supermassive black holes. He joined Caltech in 1959. Early in his career, he outlined a relationship between gas density and star formation rate in a given region, which came to be known as the Schmidt law. Since his observation of a quasar in 1963, thousands of these active galactic nuclei have been identified, and they have given astronomers deep insights into the history of our universe.

Philip M. Neches (1952–2022)



Philip M. Neches (BS '73, MS '77, PhD '83), founder of Teradata Corporation, venture partner and lead mentor at Entrepreneurs Roundtable Accelerator, and a Caltech trustee, passed away on September 25, 2022, at age 70. The holder of many patents in computer systems architecture, he founded Teradata in 1979 and served as its chief technical officer. After joining the Caltech Board of Trustees in 2000, he reinvigorated Caltech's Career Advising and Experiential Learning center and assisted with the planning of the Hameetman Center and Bechtel Residence.

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