

## BIOGRAPHIES

**Frederick J. Mayer** [Ph.D. Physics, Case Western Reserve University 1968] is currently president of Mayer Applied Research, Inc., where he provides research and consulting in plasma physics, laser and magnetic fusion, and materials science. He was a senior research associate at Case Western Reserve 1968-1971 and director of advanced research and primary scientist at KMS Fusion, Inc. 1971-1988. Dr. Mayer is a fellow of the American Physical Society, a holder of several laser-related patents, and author of more than 60 peer-reviewed technical papers.

Selected publications:

- F. J. Mayer and John R. Reitz, "A parametric heat flow model in the spherical earth," Solid Earth Sciences (2019), in press.
- F. J. Mayer, "Superconductivity and Low-Energy Nuclear Reactions," Results in Physics 12 (2019) 2075-2077
- F. J. Mayer, "The Baryon Phase-Transition Model and the *too strange* Standard Model of Cosmology," *Universe* 2017, 3, 18; doi:10.3390.
- F. J. Mayer, "Hidden baryons: The physics of Compton composites," EPL, 114 (2016) 69001.
- F. J. Mayer, "Dark Rotors in the Late Universe," Heliyon (2015) e00039.
- F. J. Mayer, "The d/h Ratio and the Heating of the Early-Earth," Applied Physics Research; Vol. 7, 30 (2015).
- F. J. Mayer and J. R. Reitz, "Compton Composites Late in the Early Universe," *Galaxies* 2014, 2, 382-409 (2014).
- F. J. Mayer and J. R. Reitz, "Thermal Energy Generation in the Earth," Non. Processes in Geophysics 21, 1-12, (2014).
- F. J. Mayer and J. R. Reitz, "Electromagnetic Composites at the Compton Scale," Int. Journ. of Theoretical Physics 51, 322-330, (2012).

**John R. Reitz** [Ph.D., University of Chicago, 1949, under Edward Teller] was a member of the Theoretical Division of Los Alamos Scientific Laboratory from 1949 to 1954, and a consultant to the Lab until 1964. He was a faculty member of Case Institute of Technology (now Case Western Reserve University) from 1954 to 1965 and was appointed Professor of Physics in 1960. From 1965 to 1987 he was manager of the physics department at Ford Motor Company. A fellow of the American Physical Society, Dr. Reitz has written approximately 50 scientific papers in the fields of solid state physics, magneto-hydrodynamics, energy conversion, and applications of electromagnetic theory. His textbook, *Foundations of Electromagnetic Theory*, is a standard in many physics departments. Dr. Reitz passed away in June 2014.