



# ALEXANDER E. KAPLAN

DEC 31, 2019



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# ALEXANDER E. KAPLAN

DEC 31, 2019

**A**lexander E. Kaplan age 81 of Boynton Beach, FL passed away on December 31st. Beloved husband of Lyubov Kaplan; Loving step-father of Ilya Serzhenko; Dear brother of Senya Kaplan. Donations may be made to the Jewish National Fund. A USA citizen, Alex was born in former USSR in 1938. He received his M.S. degree in Physics from the Moscow Physical-Technical Institute (Moscow Institute of Physics and Technology) in 1961, and his Ph.D. degree in Physics & Mathematics from the USSR Academy of Sciences, Moscow, and Gorkii State University, Gorkii, USSR, in 1967. His professional bio-sketch can be found e.g. in "American Men & Women of Science" (see e.g. 1989-90 ed.), or in IEEE J. Quant. Electr., v. 24, p.1313 (July'88), as well as in Marquis "Who's Who in Sci.&Eng. 1992-93", "W's/W in American Education", and "W's/W in America.1996" (50th edition), and "W's/W in the World.1999" (16th edition).

From 1961 to 1963 he was a research scientist in a government lab. near Moscow, USSR. From 1963 to 1979 he was a research staff member in various institutes of the USSR Academy of Sciences, Moscow, USSR. In October 1979, he immigrated to the USA. In December 1979, he started in the United States as a research staff member at the Massachusetts Institute of Technology , Francis Bitter National Magnet Laboratory, Cambridge, MA, where he worked until August 1982. He spent the summer of 1981 as a Visiting Scientist at the Max-Planck-Institute for Quantum Optics, Garching, Munich, Germany. In September 1982, he joined Purdue University, West Lafayette, IN, as a Professor with the School of Electrical Engineering, where he remained until December 1986. In January 1987 he joined the Johns Hopkins University, Baltimore, MD, as a Professor with the Department of Electrical and Computer Engineering. He retired as of July 1, 2016, and was appointed as a Professor Emeritus of the ECE Dept. at Johns Hopkins. Beginning from September 1, 2016, he is appointed as a Visiting Professor at Weizmann



Institute in Rehovot, Israel for half-year, where he spent 3 months at that and following year. In the Fall of 2018 he was invited for a research visit by the Russian Academy of Science in Moscow. He is visiting Germany to do his research in the summer of 2019 for two months within the extended Senior Research Award by the Alexander von Humboldt Foundation.

In the Fall of 1996 he was on sabbatical leave at the University of Ulm, Quantum Physics Dept., supported by Alexander von Humboldt Award for Senior US Scientists by the Alexander von Humboldt Foundation of Germany . He was invited by Kyoto University, Japan, as an Intern. Visiting Professor, and stayed there for 3 months in the Summer 2007 at the Inst. of Advanced Energy.

He has consulted for Bell Laboratories (at Holmdel, NJ), Honeywell, and other industrial and government laboratories.

Dr. Kaplan is a Fellow of the Optical Society of America . In 2005, he received the Max Born Award of the OSA.

His research efforts and interests are in the areas of nonlinear optics and quantum electronics. He made pioneering contributions to the fields of very-high order sub-harmonics generation, anomalous reflectivity and absorption by metallic nanolayer, self-bending effect, nonlinear interfaces and optical bistability, hysteretic and multi-photon resonances of a single trapped electron, light-induced non-reciprocity, soliton physics, X-ray nonlinear optics, sub-cycle sub-femtosecond pulses, shock waves in nano-clusters, relativistic nonlinear optics, etc. He has authored or coauthored more than 400 research publications, among them more than 135 journal papers, which can be found in Nature, Phys. Rev. Letts., Optics Letts., JOSAB, Phys. Rev. A, IEEE J. Quant. Electr., etc, a few books and more than 40 book chapters and conf. proceedings in the field.

According to scholar.google.com, Dr. Kaplan's work has been cited by other researchers about 6000 times; his h-index is 43.

As his voluntary effort to help the academic community of emigres from ex-USSR to adjust to new environment and to communicate to each other, Dr. Kaplan used to run INFO-RUSS



## Obituary

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mailing list (1991-2000) with about 1500 subscribers. He also maintains "FizTech-abroad" list of FizTech alumni outside of ex-USSR, with about 1000 names on it.



## Tribute Wall

**ALEXANDER E. KAPLAN**



**Denise Mines** posted:

Alex and Lyubov have not lived in our Florida community very long. But we enjoyed their company and always looked forward to seeing them again. Denise Mines

January 17 at 8:02 AM



**Grover Swartzlander** shared an album called **Memories Album**.



January 2 at 2:43 PM



**Vivianne** posted:

Amazing man! Many remarkable contributions to today's science and technical advancements. Thank you for your life time of work

January 1 at 2:43 PM



Grover Swartzlander shared a photo to the **Memories Album** album.

January 2 at 2:43 PM



Alex in his Baltimore apartment, Dec 2014.



## **Memories only last if you share them**

Join us in honoring ALEXANDER by contributing to a collection of shared memories.



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