



## Harold Weinstock

December 25, 1934 - January 3, 2024

Harold Weinstock, 89, died January 3, 2024, in his home at Greenspring Village, VA, with his wife Linda by his side.

Dr. Weinstock was born December 25, 1934, in Philadelphia, PA, to Alex and Tillie Weinstock. They ran a dry goods store. He grew up in Philadelphia.

Dr. Weinstock retired as a program officer at the Air Force Office of Scientific Research in 2018, where he managed programs in electronics and electronic materials that relate to superconductivity, metamaterials, and nanoelectronics. He received a B.A. in physics from Temple University in 1956 and a Ph.D. in physics from Cornell University in 1962. In 1999, he was awarded an honorary doctorate from INSA de Lyon. He was for more than 20 years a professor of physics at the Illinois Institute of Technology (IIT). He was the founding director of IIT's Educational Technology Center.

Dr. Weinstock carried out research for much of his career. Among his accomplishments, he was a leading expert in the science and engineering of superconducting quantum interference devices (SQUIDs). In addition to IIT, he served in research appointments at the University of Maryland, the Naval Research Laboratory, the University of Leuven in Belgium, the University of Nijmegen in The Netherlands, INSA de Lyon in France, and the University of Houston. In 2002, he was a Guest Professor at the University of Paris VI,

Pierre et Marie Curie, where he helped establish a research program in SQUID nondestructive evaluation. From 1972 to 1986, he was a part-time Visiting Staff Member at the Los Alamos National Laboratory, where he engaged in research on current-carrying superconductors. He was the author or co-author of over 100 articles on scientific research or educational development, held one patent, and edited of 11 books, mostly on superconductivity.

Dr. Weinstock was Fellow of the Air Force Research Laboratory, the American Physical Society, and the Institute of Electrical and Electronics Engineers. From 1976 to 1999, he was the Director or Co-Director of eight NATO Advanced Study Institutes in Belgium, France, Norway, Italy, and the USA. Other duties with NATO included organizing the 2000 Workshop on Advanced Magnetic Materials in Marathon, Greece, and serving as the lead U.S. delegate on NATO Defense Research Group Long-Term Scientific Studies on High-Temperature Superconductivity and on Electric Pulsed Power Systems. He was for many years a principal scientific advisor to the CEO of CardioMag Imaging, Inc., a company based in Schenectady, NY, that makes SQUID-array sensing systems to detect heart disease noninvasively and without stress.

Dr. Weinstock is survived by his wife, sons Steven Weinstock of Alexandria, VA, and Allen Weinstock of Harrisonburg, VA, and sisters-in-law Harriet Miller Darvas of Boynton Beach, FL, and Marilyn Paul of Washington, DC.

Contributions to charities are encouraged in lieu of flowers.

# Tribute Wall



“ It was a real privilege and honor to meet in person, discuss the modern scientific problems and work together with Harold on some scientific issues solutions finding toward the new quantum electronics/photonics devices development, including the 1024 QRNG\_MFQ chipset. Our numerous US AFOSR research programs discussions in North America, Norway and France had place at various locations and proved to be very important from all the points of view. Our frequent meetings at the NATO scientific conferences contributed to the achievement of significant progress in the fundamental/applied superconductivity science. Harold's personal multiple encouragements to write the book on the nonlinearities in the microwave superconductivity must also be regarded with the deep respect. The above noted scientific book can be found at <https://www.amazon.com/Nonlinearities-Microwave-Superconductivity-Dimitri-Ledenyov/dp/6139997755/>

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**Viktor O. Ledenyov** - September 05, 2024 at 07:11 AM

BG

“ It was a great honor to have worked with Harold at AFOSR from 2004 to 2010. He made an indelible impact on the new fields of high temperature semiconductors and of metamaterials at that time, identifying and championing outstanding scientists in their cutting-edge research. He was, moreover, a respected mentor to less experienced program managers at AFOSR. Just prior to his retirement from AFOSR, many of his friends and colleagues met at the University of Houston on 27 April 2018 to celebrate his technical career and his many contributions not only science but to the lives of so many people. The event was very moving.

*I offer my deepest sympathy to Linda and other family members and to his many colleagues throughout the world. We have lost a great man.*

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**Brendan Godfrey** - April 29, 2024 at 08:29 AM

PC

“ 2 files added to the album travel



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**Pat Carrick** - March 27, 2024 at 04:47 PM

KS

“ Harold's passing is a tremendous loss. I was privileged to count myself among the myriad of young scientists that Harold mentored and championed. I attribute a great deal of whatever professional success I have achieved to Harold's early support, not only funding but also moral support. His enthusiasm for superconductivity, a field to which he contributed greatly, was unmatched. It was always a joy to talk and interact with him and to experience his energy and passion, even when he was well into his 80's, and still hoping for a new high-temperature superconductor. He was a proud Cornellian, and delighted in telling us stories of the "good old days" with the low-temperature physics group in Clark Hall.

Thank you Harold, for all that you have done for so many of us in the scientific community, both personally and professionally. You were one-of-a-kind and I will miss you greatly and will always appreciate what you have done. Condolences to Linda and the rest of your family.

Kyle Shen  
Cornell University

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**Kyle Shen** - March 04, 2024 at 04:20 PM

HW

“ With a heavy heart, I would like to share some of my best memories with Harold. Harold was the leader and champion for many of the junior academics in the field of condensed matter physics throughout his career. I was very lucky to be one of them, being supported by Harold in the past. His guidance and support had shaped our independent research career enormously. These photos were taken during the White House touring event at the 2008 PECASE award ceremony in December 2008. Harold was in good health with his smile and fun jokes all the time. These will always be in the best memories of mine! Thank you Harold for all you have done for all of us!

*I also want to give my sincere condolences and caring wishes to Linda and your family. My heart sincerely goes out for you!*

*From Haiyan Wang (Purdue University, a former PI from Harold's AFOSR program 2007-2015)*



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**HAIYAN WANG** - March 04, 2024 at 12:22 PM