



## Alexander J Federowicz

May 28, 1935 - March 12, 2017

Alexander J. Federowicz age 81 of Squirrel Hill died on March 12, 2017. Raised in East Hartford, CT he moved to Pittsburgh in 1953 to attend Carnegie Technical University. He received his Ph.D. in mathematics in 1963. He joined Westinghouse Research and Development in 1962 and worked there until retirement in 1989. in 1991, he worked as software developer for Advanced Software and retired in 1996. An avid skier and golfer, his great interests were history, current events, classical music and mathematical puzzles, particularly Ken Ken. Alex is survived by his spouse, Margaret Laske; by his daughter Yvonne Federowicz of Providence, RI and by his son, Alexander J. Federowicz, Jr. of Brooksville, FL. Professional services entrusted to the care of D'Alessandro Funeral Home and Crematory Ltd., Lawrenceville

# Tribute Wall



“ *Alexander J Federowicz*

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January 13, 2023 at 04:43 PM

“ Alex,

*Many thanks for your 53 years of professional friendship! I have been trying to invite you to serve on the "program committee" for an international symposium -- Celebrating 55 Years of "Geometric Programming GP" -- that will be held as soon as I can make appropriate logistical arrangements.*

*Your unfortunate passing has made you the latest of 4 mathematical scientists who will be posthumously honored for major GP accomplishments. In fact, my future presentation of the "Early History of GP" will describe 2 important contributions made by you during your early years at the Westinghouse R&D Center:*

- 1. your clever 1964 demonstration that "Linear Programming LP" (whose 1947 "simplex algorithm" is widely believed to be "monetarily" the most important "mathematical algorithm" developed entirely during the 20'th century) is actually a simple special case of GP -- a fact whose exploitation has recently provided GP numerical solutions to many "extra-large-scale" and "multi-scale" LP "optimization problems" that were previously not "solvable in real time" (due to the fact that LP, unlike GP, cannot directly exploit the extreme power of "parallel-processing" super computers, initially developed in the 1990's),*

- 2. your insightful, user-friendly, 1965 design of the first computer software for numerically implementing GP -- which subsequently enabled WE to "optimally outbid" GE and other corporate competitors for lucrative contracts from regional electric-utility companies to design and then fabricate their huge customized power-transformers -- and which was still being used in 2005 by ABB (the Swiss corporation now responsible for optimally designing and/or operating many, if not most, of the worlds extra-large-scale and multi-scale electric-utility "power grids"), who acquired the Westinghouse Power Transformer division in 1989.*

*If your family or friends would like more detailed information about some of your professional accomplishments, I can be contacted as follows.*

*Elmor Peterson, elmor.peterson@gmail.com, or (919) 881-9194*

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**Elmor L. Peterson** - March 20, 2017 at 12:59 AM



*Hi Elmor :-) I am his son. I'll be in touch soon...*

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**Alexander Federowicz** - April 08, 2017 at 06:25 AM