OBITUARY: Sidney Jesse Yakowitz

Sid Yakowitz was born in San Francisco, California on 8 March 1937, and died on 1 September 1999 in Eugene, Oregon at the untimely age of 62. He had suffered for some time from health problems, including a weak heart and a poor circulation system.

Sid graduated with a B.S. in Electrical Engineering from Stanford University in 1960, and began his career as a Design Engineer at the Lawrence Radiation Laboratory, University of California, Berkeley. He had always suffered severely from asthma, and this was one of the reasons for his move to the drier climate of Arizona. He took an M.S. degree in Electrical Engineering at Arizona State University (ASU), Tempe in 1965, and served as a Faculty Associate for the following year, during which he earned an M.A. in Mathematics. He was awarded his Ph.D. in Electrical Engineering from ASU in 1967.

In 1966, he accepted appointment to an Assistant Professorship in the Department of Systems and Industrial Engineering (SIE) at the University of Arizona, Tucson; he served the department continuously as a dedicated member for the next 33 years, until his retirement in May 1999. He was promoted to an Associate Professorship in SIE in 1968, and to a full Professorship in 1977, co-founding the department’s Algorithmic Laboratory with Marcel F. Neuts in 1987, and taking over its directorship after Marcel’s retirement in 1996.

Sid was an intellectually curious researcher, with many areas of expertise: statistics and statistical inference, computational mathematics, game theory, decision analysis, water resources and dam theory, control problems, time series analysis, dynamic programming, machine learning, and most recently the analysis and control of epidemics. His 1982 paper with Szidarovszky on the existence of equilibria in Cournot oligopolies is one of the most cited works in the field of game theory. He was a voracious reader of the technical literature, and had an immense knowledge of the fields in which he worked. His familiarity with the various areas of applied mathematics was broad and deep; his friend and colleague in the SIE department, Ferenc Szidarovszky, has referred to Sid as a ‘living lexicon of the literature’. He asserts that Sid would always know the right answer to a problem, or provide a reference that led to the answer. I know from personal experience what a stimulating collaborator he was: his questions were always penetrating, and his solutions to difficult problems unexpected and elegant.
Sid was also a sensitive and knowledgeable lover of English and American literature. He read widely, was an amateur musician who played the violin, and greatly appreciated classical music. I still recall the expression of pleasure on his face, as we both listened to his daughter Jane playing the violin. She now plays in the Bach Society Chamber Orchestra at Yale University, where she is a student of mathematics.

Sid authored 4 books, listed below; a fifth book entitled ‘An Introduction to Non-Numerical Computations’ is to be submitted for publication posthumously. He was a prolific researcher, writing some 97 papers over a period of 32 years; details of these are also given below. He taught a variety of courses in the SIE department, and supervised 4 Ph.D. students in SIE, 2 in Hydrology, and 2 in Mathematics.


His expertise and good judgment were much valued as a member of the Rainfall/Runoff Committee of the American Geophysical Union 1981–1982, of the National Research Council Committee on Techniques for Estimating Probabilities of Extreme Floods 1987–1988, and of the National Academy of Science Committee for Selecting Minorities and Women for Graduate Assistantships 1989–1992. He was also an Engineering and Mines College Representative to the University of Arizona Promotion and Tenure Advisory Committee 1985–1988.

At the personal level, Sid was a devoted family man; he was immensely proud of his wife Diana’s and his four children’s achievements, and rarely missed the opportunity of drawing one’s attention to them. He had a great gift for friendship: he invited me to visit him at Tucson when I was working at the University of California, Santa Barbara, and insisted that I stay with Diana and him in their home, where I was made to feel very much a member of the family. He later visited the Stochastic Analysis Group in the School of Mathematical Sciences of the Australian National University for six weeks in 1996–1997, and pursued his collaboration with Daryl Daley and myself on epidemic problems, and with Chris Heyde on long term dependence. We greatly enjoyed his good humour, and his enormous fund of jokes; we shall miss him very much. He has left behind him an impressive opus, and wonderful memories of his love of literature and music, and of his deep humanity.

Sid is survived by his mother Mary V. Yakowitz, his wife Diana, and four children April Yakowitz, Taibele Karen Wesley, Joel Yakowitz and Jane Yakowitz, as well as two grandchildren. His colleagues throughout the world extend their deepest sympathy to the family at their sad loss.

Australian National University, Canberra

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J. GANI

From Professor Benjamin Kedem, University of Maryland:

I was deeply saddened by the death on September 1, 1999, of my dear friend Sid Yakowitz. Only three weeks earlier, on August 9, the two of us had dinner together in Baltimore where we attended the 1999 Joint Statistical Meeting; Sid gave a talk on stochastic optimization at the
meeting. At dinner, Sid told me of his heart condition, but the meal was great and he enjoyed it. After dinner we walked two blocks to my car, and it was clear that this required an effort on his part.

I first met Sid at the Joshi Festschrift Conference, held in London, Ontario, in May 1985, and we became instant friends. Sid had numerous friends and collaborators; his broad spectrum of interests and wide knowledge made him a valuable collaborator. We worked together in the early 1990s on a certain contraction mapping in spectrum analysis. Sid’s contribution was both insightful and beautiful. His interest in my research had a tremendous impact on my career and I shall miss him greatly.

My heart goes out to Diana and the children.

From Professor Ferenc Szidarovszky, University of Arizona:
I had the privilege of being Sid Yakowitz’s co-author in two books and many papers, and have only the happiest memories of working with him. He was always hard-working, reliable and fair. His excellent sense of humour made every minute of our co-operation a genuine pleasure. Our long-term co-operation in the SIE department, which led to joint books and publications, also resulted in my introducing him to real European coffee, and many fine Hungarian dishes such as potato casserole, and stuffed pepper, which he grew to love.

Sid was always honest and invariably spoke his mind. He never played games or compromised his honesty to please anyone. His frank critical comments helped me greatly in my teaching and research, and even often in my personal life. He was my best friend, and I miss him very much.

Publications of Sid Yakowitz

Books

Papers


