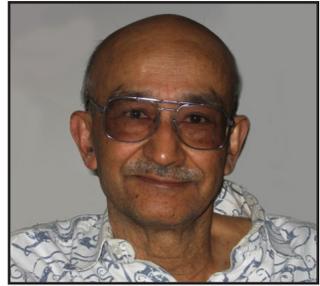


**R**anen Sinha was born in the village of Purbadhala, India, now Bangladesh, on 25 January 1930. He spent his early years in the country before moving to Calcutta in 1946 for a 2-year pre-medical course at the R.G. Kar Medical College followed by a Master's degree in Zoology and Comparative Anatomy at the University of Calcutta. He completed his PhD in 1956 on the taxonomy of bees, revising the genus *Osmia* at the Department of Entomology, University of Kansas, under Charles Michener. He did find time during his PhD to study the digestive tract of a stored-product insect, the red flour beetle, from a group he would later spend the rest of his professional life studying. Ranen joined the Zoology Department of McGill University in Montreal as a Post-doctoral Fellow of the National Research Council of Canada for 1 year, continuing his work on histology and physiology of the insect gut using several stored-product insects.



**Ranendra Nath Sinha  
(1930-2013)**

He accepted a position as Research Officer at the Agriculture Canada Research Station in Winnipeg in 1957 as an ecologist working on stored-products. His work involved determining the causes and strategies for management of hot spots associated with infestations of stored cereal grains by insects, mites and microflora in the Prairie provinces. His research was often done in collaboration with students, post-doctoral fellows and other researchers. Ranen was appointed as an Honorary Professor at the Department of Entomology, University of Manitoba, in 1961, where he also developed a long-term collaboration with Bill Muir from the Department of Biosystems Engineering. He spent 1 year, 1963, in Japan working with Professor Uchida of Kyoto University. He developed an ecosystem concept for the protection of stored grain and oilseeds by identifying, detailing, and controlling biotic and abiotic factors that cause deterioration. This internationally acclaimed work has now been implemented in many countries. His expertise in statistical methods using principal component, discriminate function, canonical correlation and likelihood factors analyses has been used to solve practical problems.

He sought excellence in all he did, and received many awards and recognition. He received the Entomological Society of Canada Gold Medal in 1985 for outstanding achievement in Canadian entomology, the first Manitoban to receive this honour. In 1991, he was awarded the Sigma Xi Senior Scientist award by the Manitoba Chapter of Sigma Xi. He published over 215 papers in scientific journals around the world, many chapters on grain storage, and 2 co-authored books. He presented at scientific conferences around the world, and consulted with other countries seeking to protect their grain reserves.

Ranen expected the same high standards from his technicians and students, but at the same time encouraged and supported their betterment through further education and career development. He also emphasized that family came first and was top priority, taking special interest in those he worked with and their families; he was extremely hospitable in this regard. Ranen retired from Agriculture and Agri-Food Canada in 1993.

Ranen was a lifelong practiser of yoga, founding the Yoga Society of Manitoba and in retirement he expanded his teaching of yoga. He died peacefully on 14 February 2013, surrounded by family, leaving his wife Luella, son Jay (Chantal, grandson Jyoti) and daughter Mala.

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