Meteoritical Society

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IN MEMORIAM

LARRY TAYLOR, 1938–2017

Lawrence "Larry" A. Taylor was born 14 September 1938. He grew up in Port Jervis, New York (USA), over a bar owned by his father. His formative years were to set the scene for the way he lived his life. At the beginning of his senior year at high school he was a passenger in a car that was involved in a bad accident that threw Larry from the car and left him to spend 10 months in hospital. Despite having missed most of his last year at high school, Larry insisted on taking his final exams – and passed! Having graduated high school, he started his higher education in night school at Orange County Community College, Middletown, New York.

As he would freely tell anyone, he left New York City in 1958, one step ahead of the law, and began an academic career at Indiana University (USA). In 1961, he graduated with a major in chemistry and a minor in geology and stayed on to achieve a master's degree in geology after discovering a love for the subject. From 1958 to 1965 he also worked on and off as a driller, mucker, powder-monkey, and geologist in mines in Ontario (Canada). In 1965, he was introduced to planetary geology as a NASA Research Fellow at Lehigh University (Pennsylvania, USA). It was during this time that his children, Jeff and Kelly, were born. In 1968, he received a PhD in geological sciences with a minor in material sciences from Lehigh. He then moved to the Geophysical Laboratory of the Carnegie Institution of Washington where he conducted postdoctoral research into experimental petrology. He then undertook Fulbright and Humboldt Fellowships at the prestigious Max-Planck-Institüt für Kernphysik in Heidelberg (Germany), which deepened his knowledge and understanding of sulfides and oxides and their experimental phase equilibria. Such mineralogic studies would be the focus of his early studies on lunar rocks.

Larry was hired as an Assistant Professor at Purdue University (Indiana, USA) in 1971 and moved to the University of Tennessee, Knoxville (USA) in 1973, where he remained until his (partial) retirement in June 2017. Larry achieved tenure after only two years, the most rapid rise of any professor in the department to date. In 1977, he became a full professor. In those early years, the cornerstone of his research was experimental petrology, specifically on sulfides and oxides. It is a tribute to his abilities, keen insight, and most of all hard work, that he has moved so easily into disparate areas of research over the years, from experimental petrology of sulfides, to the study of the kinetics of silicates, to trace-element and isotopic geochemistry.

Larry Taylor was one of the geoscientists based at the Johnson Space Center (Texas, USA) during Apollo 17, NASA's last manned mission to the moon, in December 1972. During that mission, he met astronaut Harrison H. "Jack" Schmitt. Their friendship played a critical role in the growth of University of Tennessee's Department of Earth and Planetary Sciences (see https://news.utk.edu/2017/10/03/decades-growth-discovery-mark-nasa-research-ut/ for more details) in which Larry was based. It was also instrumental in the forming of the Planetary Geosciences Institute (also at the University of Tennessee), which has a long and well-established history of research funding from NASA and the National Science Foundation.

In 1993, a new phase of his life began after marrying his second wife, Dong-Hwa (Dawn) Shin. But his dedication to his work did not falter. In the previous 20 years of his life at the University of Tennessee he would often put in over 100 hours a week in his office, writing papers and hounding graduate students and post-docs. But after his second marriage, he started to spend a "normal" day in his college office and then equally as much of his time working at home.

Over the years, Larry has served on numerous editorial boards, planning committees, working groups, and review panels. These have included a year as NASA discipline scientist and program manager in Washington, D.C. (while keeping up with his academic pursuits and continuing to advise graduate students and post-docs), while taking on numerous associate editorships and working on lunar committees, including those for sample allocation.

Larry was prolific in terms of research production. His peer-reviewed research papers totaled 542, his *h*-index exceeds 50, and his extended (>1 page) abstracts number over 700. Larry has also published in many engineering journals because his interests were so diverse. The high regard that the University of Tennessee has for Larry is seen by the fact that he received the University of Tennessee Chancellor's Award for Research and Creative Achievement on more than one occasion. He is a Fellow of the Meteoritical Society, the Mineralogical Society of America, and the American Geophysical Union. In July 2017, Larry was awarded the NASA SSERVI Wargo Award for his contributions to planetary science and exploration. It was while he was in California to receive this award that his illness became apparent and he was unable to give his acceptance presentation. Once back in Knoxville, the full extent of the brain cancer was uncovered and in less than two months, Lawrence August Taylor left this world peacefully surrounded by his family. For those of us lucky enough to have benefitted from Larry's guidance and tutelage, the world is worse off for his passing. We are all sad that Larry is gone; but we, as his postdocs, students, colleagues, and friends, have a responsibility to continue his legacy. To the Moon, Larry – and this time to stay!

This *In Memoriam* was written by Clive R. Neal, who was an L. A. Taylor post-doc 1986–1990, now Professor of Planetary Science, University of Notre Dame (Indiana, USA). With thanks to Dawn Taylor, Greg Snyder, G. Jeffrey Taylor, Harry "Hap" McSween, and the *Tennessee Today* newsletter, all of whom contributed to this tribute.

GERALD ROWLAND, 1928–2017

Gerald L. Rowland passed away 19 September 2017 at the age of 89. He was born 13 August 1928 in Whittier (California, USA) and attended the University of California at Los Angeles, where he received a BS in mathematics in 1950. In order to meet the requirements of his undergraduate teaching minor he needed an upper division science course, and he took a course in astronomy from Frederick C. Leonard, my father. When another student subsequently dropped out of a field trip to the Barringer Meteorite Crater, Gerald took his place. He became my father's research assistant, co-authoring "A Catalogue of the Leonard Collection of Meteorites", which was published in *Contributions of the Meteoritical Society* in 1951.

After graduation from UCLA, Gerald accepted a teaching position in the Department of Mathematics and Astronomy at the University of New Mexico (UNM) (USA). He worked under the supervision of Lincoln LaPaz, Director of the UNM Institute of Meteoritics. He received his MS in mathematics from UNM, leaving in 1956 to join the faculty of Long Beach City College (California). In that same year, he co-authored "An Index Catalog of the Multiple Meteoritic Falls of the World" and "The Classificational Distribution of the Single and Multiple Meteoritic Falls of the World." Two years later, he was elected Secretary of the Meteoritical Society, a position he held from 1958 to 1966. These were both challenging times and times of transition for the society. Much had changed and much had been accomplished by the time he transferred the society paperwork to the incoming Secretary, Roy Clarke.

When my father died in 1960, Gerald provided support to our family both during the period of my father's illness and after his death. He participated in the creation of the Leonard Medal, and was one of those who presented it to my mother, Rhoda Leonard, in 1963. In that same year, he published the final catalog of the Leonard Collection of Meteorites, which he had previously inventoried and helped transfer to UCLA.

Gerald loved music and sang in choirs most of his adult life. As a school-age child I knew him as the family friend who joined us for our Christmas Eve celebrations. He had a remarkable memory for dates, and he never missed a birthday or anniversary. To the end of his life, I could count on a note from him every year on the anniversary of my father's birth.

Gerald faced a number of serious medical challenges throughout his life. The first, while a graduate student at UNM, almost took his life. About the time of his retirement he was stricken with a rare form of Guillain-Barre syndrome that required months of hospitalization and left him with weakness from which he never fully recovered. Yet he faced these and other obstacles with the grace and good humor that characterized him throughout his life

Gerald also was the person who wrote the remembrance of my father, Fred C. Leonard, that appeared in the first issue of *Meteoritics* when it resumed publication in 1963. It is a privilege and an honor for me now to be able to write this remembrance of Gerald.

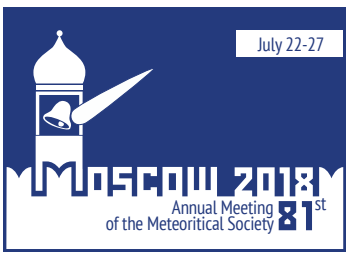
Fred Leonard

THE BARRINGER FAMILY FUND FOR METEORITE IMPACT RESEARCH

The Barringer Crater Company has established a special fund to support field work by eligible students interested in the study of impact cratering processes. The Barringer Family Fund for Meteorite Impact Research will provide a number of competitive grants in the range of $2,500 to $5,000 for support of field research at known or suspected impact sites worldwide. Grant funds may be used to assist with travel and subsistence costs, as well as laboratory and computer analysis of research samples and findings. Masters, doctoral, and post-doctoral students enrolled in formal university programs are eligible. Application to the fund will be due by 6 April 2018, with notification of grant awards by 8 June 2018. Additional details about the fund and its application process can be found at:

http:/www.lpi.usra.edu/science/kring/Awards/Barringer_Fund

ANNUAL MEETING SCHEDULE



2018 – Moscow (Russia), 22–27 July

2019 – Sapporo (Japan), 8–12 July

2020 – Glasgow (Scotland, UK), 9–14 August

2021 – Chicago (Illinois, USA), dates TBD

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