MEMORIAL RESOLUTION
Jon Michael Dunn
June 19, 1941—April 5, 2021

Jon Michael (Mike) Dunn was a native of Indiana—born in Fort Wayne to Jon Hardin and Philomena Elizabeth Dunn, and raised in Lafayette. He received his Bachelor of Arts at Oberlin College in 1963. He received his Ph.D. three years later from the University of Pittsburgh (in 1966) with a dissertation on *The Algebra of Intensional Logics*, where he studied with Alan Ross Anderson and Nuel Belnap. He taught at Wayne State University in Detroit and at Yale University before joining the philosophy department at Indiana University in 1969. He remained at IU until his retirement in 2007 as the Oscar R. Ewing Professor of Philosophy.

Professor Dunn was a fellow of the American Academy of Arts and Sciences, president of the Society for Exact Philosophy, on the executive committee of the Association for Symbolic Logic, editor of the *Journal of Symbolic Logic*, and chief editor of the *Journal of Philosophical Logic.* He was the author or co-author of seven books and over 100 papers. Professor Dunn was a Fulbright-Hays research senior scholar and visiting fellow from 1975 to 1976 at the Institute for Advanced Studies, Australian National University in Canberra. He was also a senior visitor at the Mathematics Institute, Oxford University, in 1978 and an American Council Learned Societies fellow, 1984–1985.

Professor Dunn had a huge influence on the development of the Department of Philosophy and its ascent during the 1990s to national and international prominence in the field of logic. He was chair of the philosophy department from 1980 to 1984 and from 1994 to 1997. He also served as an associate dean in the College of Arts and Sciences, 1988-1991, and as the executive associate dean, 1991-1993. The founding dean of the School of Informatics at Indiana University in 2000 (later, the Luddy School of Informatics, Computing, and Engineering), Dunn was a professor of computer science from 1989 to 2007, and a professor of informatics from 2002 to 2007. In 2007, he received the Indiana University Bloomington Provost's Medal and was appointed a Sagamore of the Wabash by the Governor of Indiana.

Much of Dunn's work would be called algebraic logic in the sense that it uses ideas from abstract algebra. This is a rare profile for a philosophical logician, and it is reflected in his book, *Algebraic Methods in Philosophical Logic* (with G. Hardegree, 2000). But he also developed proof-theoretic methods and brought both algebra and proof theory to bear on a wide range of logics. He was an especially important contributor to relevance logic, and on that topic, he was one of the world's foremost experts. His work on the algebra and proof theory of relevance logic anticipated the much later development of linear logic by others. He also introduced a new topic known as gaggle theory (generalized Galois logics), developed especially in the book of that name (with K. Bimbó, 2008). In addition, he worked on quantum logic and computation and proved, with Katalin Bimbó, the decidability of Ticket Entailment, an open problem since 1960. He was a prolific contributor to work on the family of logics called substructural logics, and there again, he was one of the world's experts.

In his autobiography and in his talks, he said that he thought of logics as tools and called himself a tool-builder. His work as a whole did not try to advocate for one or another approach to logic but rather to offer a full toolbox to working modelers and scientists who use logical systems.

Despite being a very busy researcher and administrator, Professor Dunn always made time for others. He was a wonderful conversationalist, and often hilarious. Many of his jokes were logic jokes. He and his wife Sally hosted annual holiday parties in December, which brought together a wide cross-section of the IU community. These gatherings were filled with good cheer, camaraderie, joy, and spirited exchange. He was generous with his time and knowledge, unpretentious, and very supportive of students, young researchers, and colleagues, who remember him with affection and admiration and as a role model not just for being an academic, but for having lived a full, rich life. In the words of one of his most famous students, "[he] was a force of nature and a gentle soul."

He married Sarah (Sally) Jane Hutchison and is survived by her and their two children, Jennifer Anne and Jon William Dunn.

We request that this memorial tribute to Jon Michael Dunn be presented to the members of the Bloomington Faculty Council, that it be preserved in its minutes and archive, and that after its presentation copies be sent to members of his family.

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