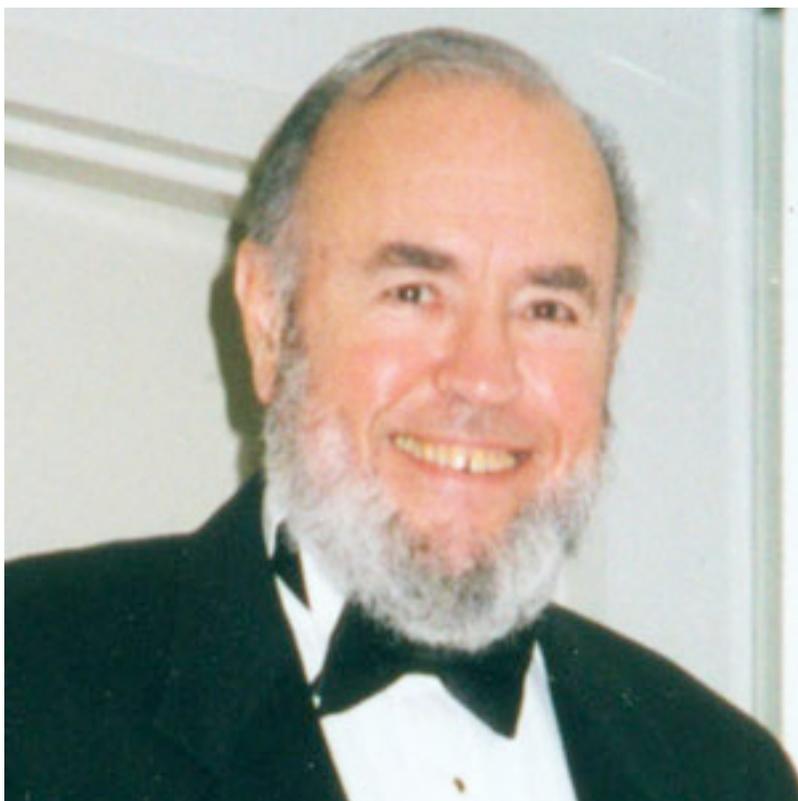


Happy 80(.5)th Birthday Derek Horton!



Derek Horton received his degrees from the University of Birmingham in England, was on the Chemistry faculty at Ohio State University until 1992, and held visiting professorships in France and Germany. He held the Isbell Chair of Carbohydrate and Natural Product Chemistry at American University between 1993 and 2009, where he taught courses on carbohydrate and natural product chemistry. His research is on the organic, biochemical, and technological aspects of carbohydrates. He was a founder of the international journal *Carbohydrate Research* and is editor of the annual book series *Advances in Carbohydrate Chemistry and Biochemistry*. He serves on the International Commission for Biochemical Nomenclature and several committees of the American Chemical Society, and has published about 500 articles, books, and patents in the carbohydrate field.

Advances in Carbohydrate Chemistry and Biochemistry

Excerpts from the Volume I Preface (1945)

- * The increasing tempo of research and the consequent increased specialization of research workers make it desirable to provide frequent reviews of important developments in carbohydrate chemistry, not only for carbohydrate chemists, but also for research workers in other fields and industrial chemists and teachers.
- * It is also the intention to cover, as far as the available space will permit, biochemical, industrial, and analytical developments. It is our plan to have the individual contributors furnish *critical*, integrating reviews rather than mere literature surveys and to have the articles presented in such form as to be intelligible to the average chemist rather than only to the specialist.
- * It may be found desirable to present several reviews of controversial subjects, particularly of those in fields undergoing a rapid state of development
- * The general policies of the “Advances” have been formulated by an Executive Committee consisting of W. L. Evans, H. O. L. Fischer, R. Max Goepf, Jr., W. N. Haworth, C. S. Hudson and the two editors [Ward W. Pigman and Melville L. Wolfrom].
- * Because the present volume is the first to be presented, we trust that the readers will not be too critical and will remember that the attainment of uniformity and the establishment of permanent policies will require some time and much consideration. The present international conflict has made the solicitation of manuscripts difficult and has provided many other difficulties.

Horton Involvement in “Advances”

- * Originally titled *Advances in Carbohydrate Chemistry*.
- * “*and Biochemistry*” added with Volume 24 (1970)
- * Melville L. Wolfrom edited volumes 1–23 (except volume 6)
- * First reference to Horton involvement appears in 1959 (Volume 14): “*Dr. D. Horton assisted in the final editing.*”
- * In 1968, Wolfrom appointed Horton Assistant Editor.
- * After Wolfrom’s death in 1969, Horton assumed the role of Editor. First, jointly with R. Stuart Tipson 1969–1990 (Volumes 24–49) and since 1991 (Volume 50) alone.

“Advances” Metrics

- * 68 volumes since 1945
- * 353 total reviews
- * Total citations: 24558
- * Citing Articles: 20582
- * Average Citations/paper: 69.97
- * H-index: 81

“Advances” Metrics

Top 5 cited reviews:

- * K. Bock and C. Pedersen, *Carbon-13 Nuclear Magnetic Resonance Spectroscopy of Monosaccharides*, **1983**, 41, 27-66. ([1303 citations](#))
- * R. Schauer, *Chemistry, Metabolism and Biological Functions of Sialic Acids*, **1982**, 40, 131-234. ([858 citations](#))
- * J. F. G. Vliegthart, L. Dorland, and H. van Halbeek, *High Resolution H-1 Nuclear Magnetic Resonance Spectroscopy as a Tool in the Structural Analysis of Carbohydrates Related to Glycoproteins*, **1983**, 41, 209–374. ([843 citations](#))
- * R. R. Schmidt and W. Kinzy, *Anomeric-Oxygen Activation for Glycoside Synthesis: The Trichloroacetimidate Method*, **1994**, 50, 21–124 ([694 citations](#)).
- * G. Legler, *Glycoside Hydrolases: Mechanistic Information from Studies with Reversible and Irreversible Inhibitors*, **1990**, 48, 319–384 ([593 Citations](#)).

TLL Letter for ACS Fellow Nomination (2011)

...When this program was announced, the first person who came to mind as perfectly suited for this recognition was Professor Horton, given the leadership roles he has taken on in the ACS Division of Carbohydrate Chemistry, his tireless efforts to standardize carbohydrate nomenclature, and his decades-long service to journals dedicated to carbohydrate chemistry and biochemistry, and his seminal research contributions to these fields.....

In closing, I would like to relate a personal anecdote, which speaks to Professor Horton's role as a mentor to younger members of the carbohydrate chemistry and biochemistry community, even those outside of his own research group. In 1996, I started a position as an Assistant Professor at The Ohio State University, with a plan to work in the field of synthetic carbohydrate chemistry. Having been trained in this area, I was well aware of the history of Ohio State, and also knew the expectations were high, given the shoes I was filling: Professor Horton's (and before him Professor Wolfrom). At the time I started, I had never met Professor Horton, but shortly after arriving at Ohio State, I received a very nice letter from him, wishing me well and offering his help should I need it. I later met Professor Horton and we have interacted extensively over the past 15 years. He remains a strong supporter of me and other young (using the term very loosely in my own case!) members of the community, and I have often turned to him for advice and counsel, which has given without hesitation.

Happy 80(.5)th Birthday Derek Horton!

