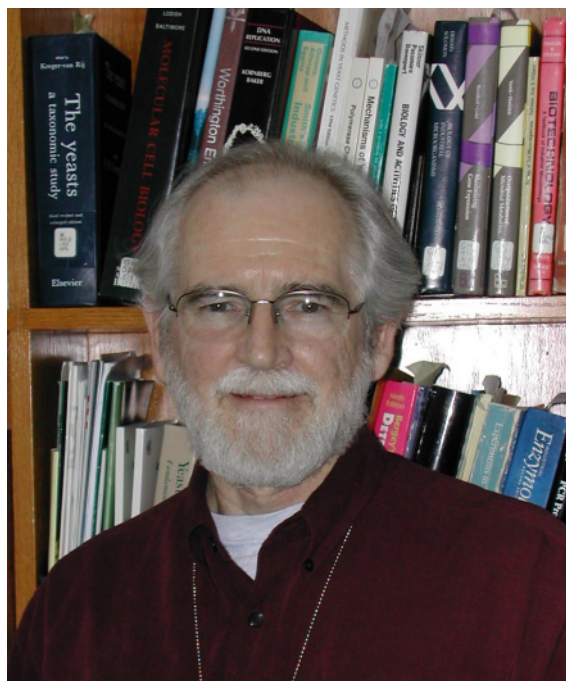


2003 Charles D. Scott Award Winner — Thomas W. Jeffries

The tenth Charles D Scott award was given to Dr. Thomas W. Jeffries on May 7, 2003, at the 25th Symposium on Biotechnology for Fuels and Chemicals in Breckenridge, Colorado.

This Charles D. Scott award is presented annually at the Symposia on Biotechnology for Fuels and Chemicals and recognizes persons who have distinguished themselves in the area of the use of biotechnology to produce fuels and chemicals. In particular, this award acknowledges individual contributions to the field as a whole or to this symposium, innovation in fundamental and applied biotechnology, insight into bioprocessing fundamentals, or commitment to facilitate commercialization of products from renewable resources.

Through the course of his professional career, Tom Jeffries has worked on many aspects of bioenergy and biomass conversion. Tom's fundamental interest in primary productivity is reflected in his MS work with photosynthetic bacteria from 1969-1971 and in his work at on the biophotolytic production of hydrogen by blue-green algae. During doctoral studies on yeast cell wall lysis at Rutgers University from 1972-1975, Tom had the good fortune of working with James D. Macmillan, Elwin Reese, Mary Mandels and Doug Eveleigh, all of whom spurred a life-long interest in enzymatic hydrolysis of cellulose, hemicellulose and complex polysaccharides. While at the Lawrence Livermore National Laboratory from 1976-1977, Tom worked with a highly interdisciplinary team to assess the magnitude of the U.S. biomass resource. In post-doctoral studies with Harry Gregor in the Department of Chemical Engineering at Columbia University from 1978-1979, Tom developed membrane-coupled anaerobic fermentations of cellulose for the production of methane and short chain organic acids. In 1979, Tom joined Kent Kirk at the Forest Products Laboratory where he worked for several years on the regulation of lignin biodegradation. In the early 1980's the FPL ethanol program under the guidance of Jerry Saeman enabled Tom to return to studies on yeast physiology and regulation. His research into the oxygen requirements for yeast xylose fermentations has continued to this day. This has led to increased knowledge of xylose metabolism and improved recombinant yeasts, especially *Pichia stipitis*. Tom has also mentored many students both at FPL and the University of Wisconsin. In this Symposium, Tom has served in many roles since the earliest meetings. Tom's life has been blessed by the support and encouragement of his wife, Giovanna Miceli-Jeffries and by the love of their three daughters, Angelica, Carla and Francesca.



This award is named in honor of Dr. Charles D. Scott, founder of the Biotechnology Symposium for Fuels and Chemicals and its chair for the first ten years. In his years of work at ORNL, Chuck performed research and development on many novel bioprocessing systems including high production bioreactors, immobilized microbes, enzymes in organic media, and a coal bioprocess to name a few. The award is presented annually at the BSFC to recognized persons who have distinguished themselves in the area of biotechnology to produce fuels and chemicals.