



## CELEBRATING WOMEN IN MATHEMATICS

### DOROTHY MAHARAM STONE

1917-present- Dorothy Maharam Stone's contributions to operators and measure algebras have had a profound influence on this area of research. Her career, which has spanned nearly half a century, includes 40 research publications, some of them as recent as 1987. A Ph.D. student of Anna Pell Wheeler at Bryn Mawr College, Stone has been an active force in mathematics research and various professional activities.



In 1942, in Pittsburgh, Dorothy married Alfred Harold Stone, who was also a mathematician who was also working in measure theory, where she obtained some notable results and also did some joint work with her husband, resulting in a fruitful blend of general topological methods applied to measure-theoretic questions. After the war, Dorothy and her husband returned to England, where he was

fellow of Trinity College, Cambridge from 1946 to 1948, and then went as lecturer to Manchester University. He was a superb expositor, both in his papers and in his lectures, which were distinguished by their clarity. In 1952, Dorothy also joined the staff of the University.

Stone's work is surveyed in a number of articles which highlight her foundational results concerning positive operators, the characterization of homo- geneous measure algebras, and disintegrations. In addition, there are research papers in ergodic theory, measure theory, descriptive set theory, and the dynamics of measurable maps. A number of the results in these papers are directly related to Stone's work.

*Biography courtesy of the Cambridge University Press*