

EDITORIAL

A portion of this issue of the *Journal of Climate and Applied Meteorology* is devoted to a series of papers resulting from the AMS/EPA Workshop on Updating Applied Diffusion Models that was held 24–27 January 1984 in Clearwater, Florida. The workshop was an outgrowth of a peer review of ten Gaussian diffusion models for tall stacks, which was summarized by Maynard E. Smith in the *Bulletin of the American Meteorological Society*, Vol. 65, pp. 554–558. The purposes of the workshop were to review current understanding of the planetary boundary layer and its use in diffusion modeling, and to recommend improved models, i.e., those with better physics and hopefully better performance than the models summarized by Smith. The papers that are included in this issue are an overview on the results of the workshop and six review papers that were presented to stimulate the discussions leading to these results. We hope that these papers on a subject of great importance, i.e., atmospheric diffusion modeling and air quality control, will be of interest and will be informative to the Journal's readers.

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