Editors' Foreword

We are particularly pleased to be able to offer this special issue on "The Complexity of Arrangements." The three papers in this issue were invited because of the many new techniques used and the new results coming from them, which include simpler proofs, improvements, and extensions of some of the deepest theorems in combinatorial geometry that have appeared in the last decade. These papers exemplify particularly well the organic interconnection between discrete geometry and computational geometry which this journal has sought to stimulate.

We quote from the introduction to the first paper: "...our algorithmic and combinatorial tools are closely intertwined. We design efficient algorithms because we have access to detailed combinatorial knowledge about the underlying geometric objects. At the same time, we are able to prove purely combinatorial results by using algorithms as proof tools"

We wish the reader much enjoyment.

JACOB E. GOODMAN
RICHARD POLLACK