

**UMBC**  
FACULTY SCHOLARLY, RESEARCH  
AND CREATIVE ACCOMPLISHMENTS

JANUARY - DECEMBER 1999

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Office of the Dean of the Graduate School and  
Vice Provost for Research*

Graduate School  
University of Maryland, Baltimore County

I am delighted to share with you the UMBC Faculty Scholarly, Research, and Creative Accomplishments for the period January through December 1999. In this age of technology, we are pleased to have this information available now online at the UMBC web page, on CD, and in written text. We hope that the variety of formats will give you expanded opportunities to use the information we have assembled.

The information contained in this document has been collected from faculty annual reports that were submitted electronically. Entries are presented by department and include journal articles, books and book chapters, review essays, academic papers, lectures, creative works, honors and awards, editorial activities, and other scholarly activities. In the area of technology development, disclosures and licenses have been included. Information for internal and external grant awards was compiled from data on file in the Office of Sponsored Programs of the Graduate School.

I am grateful to the staff members of the deans' offices and University Computing who coordinated this effort, to the chairs and deans who support this project, and to the faculty whose creative work is the substance of this publication. Special appreciation goes to Ms. Louise M. White, coordinator of the project and editor of this volume.

Sincerely,

A handwritten signature in cursive script that reads "Scott A. Bass". The signature is written in dark ink and is positioned below the word "Sincerely,".

Scott A. Bass, Ph.D.  
Dean of the Graduate School and  
Vice Provost for Research

# University of Maryland, Baltimore County

## Faculty Scholarly, Research, and Creative Accomplishments 1999

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*A note about abbreviations used for Internally Funded Grants...*

Designated Research Initiative Funds (DRIF) are awarded competitively to faculty on an annual basis. DRIF awards are divided into research and fellowship awards and are for the purposes of strengthening the scholarly and research endeavors of faculty, assisting faculty in competing more effectively for external support, and enhancing the economic development of our region.

Research support awards from DRIF may be used for non-recurring research enhancements such as seed monies; research supplies; purchase or rental of equipment for new research; travel for research purposes (other than to meetings or symposia); matching funds; special short-term support for renovations; and Graduate Research Assistantships (GRA). During the time period covered by this publication, research awards were also denoted as Special Research Initiative Support (SRIS) or Research Assistantship Support (RAS).

Summer Faculty Fellowship (SFF) awards are intended to support the research/scholarly projects of faculty members, including projects in the creative and performing arts, during the summer months.