

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

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University of Maryland, Baltimore County

We are delighted to share with you the UMBC Faculty Scholarly, Research, and Creative Accomplishments for the period January through December 2001. This document is available online at the UMBC Provost's web page and on CD. We hope that the variety of formats will give you expanded opportunities to use the assembled information.

The information contained within 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 as have internal and external grant awards.

We wish to thank all UMBC faculty whose creative work is the substance of this publication. We congratulate them on their remarkable achievements of this past year. It is the fruits of the dedication and hard work of the faculty that continue to reflect positively on UMBC and propel us toward becoming the best public research university of our size nationally.

We are grateful also to the staff members of the deans' offices and University Computing who coordinate this effort and to the chairs and deans who support this project. And special appreciation goes to Ms. Louise M. White, editor of this volume.

Sincerely,



Arthur T. Johnson, Ph.D.  
Provost



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

**University of Maryland, Baltimore County**  
**Faculty Scholarly, Research, and Teaching Accomplishments 2001**

**Table of Contents**

• Africana Studies.....	1
• American Studies .....	3
• Ancient Studies .....	5
• Biological Sciences .....	6
• Chemical and Biochemical Engineering .....	18
• Chemistry and Biochemistry .....	23
• Computer Science and Electrical Engineering .....	42
• Dance .....	71
• Economics .....	73
• Education .....	80
• Emergency Health Services .....	89
• Engineering, Dean's Office .....	91
• English .....	93
• Geography and Environmental Systems.....	102
• Goddard Earth Sciences & Technology Center (GEST) .....	106
• Graduate School .....	130
• History .....	131
• Honors College.....	138
• Information Systems .....	139
• Joint Center for Earth Systems Technology (JCET) .....	153
• JCET - Geography and Environmental Systems .....	167
• JCET - Mathematics and Statistics .....	168
• JCET - Physics .....	170
• Library, Albin O. Kuhn Library & Gallery .....	174
• Maryland Institute for Policy Analysis and Research (MIPAR) .....	177
• Mathematics and Statistics .....	178
• Mechanical Engineering .....	192
• Modern Languages and Linguistics .....	200
• Music .....	207
• Philosophy .....	212
• Physical Education/Athletics .....	216
• Physics .....	217
• Policy Sciences .....	233
• Political Science.....	239
• President's Office .....	243
• Psychology .....	244
• Social Work .....	265
• Sociology and Anthropology .....	268
• Theatre .....	275
• Visual Arts.....	278

*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.