Award Number: DAMD17-01-1-0458

TITLE: Developing a Training Program in Breast Cancer Research to Decrease the Disparity of Morbidity and Mortality in Underserved/Minority Women

PRINCIPAL INVESTIGATOR: Sylvia A. Flack, Ed.D.

CONTRACTING ORGANIZATION: Winston-Salem State University
Winston-Salem, NC 27110

REPORT DATE: October 2003

TYPE OF REPORT: Annual Summary

PREPARED FOR: U.S. Army Medical Research and Materiel Command
Fort Detrick, Maryland 21702-5012

DISTRIBUTION STATEMENT: Approved for Public Release; Distribution Unlimited

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### Title and Subtitle
Developing a Training Program in Breast Cancer Research to Decrease the Disparity of Morbidity and Mortality in Underserved/Minority Women

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### Sponsoring / Monitoring Agency Name(s) and Address(es)
U.S. Army Medical Research and Materiel Command
Fort Detrick, Maryland 21702-5012

### Abstract (Maximum 200 Words)
Winston-Salem State University (WSSU), a designated Historically Black College and University (HBCU), is committed to resolving some of the economic, social, and health problems in the community in which the university is located. Breast cancer deaths and complication occur disproportionately in minority women than majority women within this community. This proposal is designed to develop a sustainable breast cancer training program at WSSU. Four faculty post docs from the School of Health Sciences are developing research skills by engaging in breast cancer research with professors at Johns Hopkins University who are experts in this area. In order to accomplish this project an interdisciplinary committee of doctors, nurses, educators, researchers and professors who have engaged in breast cancer research led by the researchers from JHU, are guiding the faculty through this development. The objectives of this training program are to allow the trainees the opportunity to develop fundable research proposals, to conduct successful clinical research projects, and to publish and to train other WSSU researchers. The faculty post docs will be able to apply their knowledge to assist minority elderly women to learn how to discover signs of cancer before the cancer becomes hard to treat. The knowledge gained will allow these researchers to participate in the training of other researchers in the area of breast cancer. Consistent with year 2 objectives, the faculty post docs have attended several training activities, submitted research abstracts and grant applications, presented in scientific conferences, and are designing the program for future WSSU researchers.

### Subject Terms
Disparity of morbidity and mortality; breast cancer; minority; elderly women; clinical oncology; biobehavioral measure of stress; quality of life; tumor

### Security Classification of Report
Unclassified

### Security Classification of This Page
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### Security Classification of Abstract
Unclassified

### Distribution/Availability Statement
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### Number of Pages
67

### Limitation of Abstract
Unlimited
INTRODUCTION

This 4-year training program is designed to prepare four faculty members in the School of Health Sciences (SOHS) to conduct research in the area of breast cancer. The program is intended to lay the groundwork for additional faculty to engage in breast cancer research by enhancing the research infrastructure in the SOHS. The four faculty members (post-docs) currently involved in the program represent nursing, clinical laboratory sciences, occupational therapy and physical therapy. Each of these faculty members is paired with a mentor from Johns Hopkins University School of Nursing (JHUSON) who is conducting breast cancer research. The JHUSON mentors are co-investigators on the project. Four academicians and practitioners from Wake Forest University Baptist Medical Center (WFUBMC) who are involved in providing health care to breast cancer clients or in conducting breast cancer research serve as consultants. These consultants represent the disciplines of gerontology, epidemiology, geriatrics and oncology. Two faculty members at WSSU serve as advisors and consultants to the four faculty post docs. The project also includes a biostatistician, housed at JHUSON, and a research assistant housed at WSSU. These persons assist the four faculty members/post docs to meet the goals of the program. In addition, the research assistant assists in maintaining the research center at WSSU. The Principal Investigator, Dr. Sylvia Flack, has administrative oversight of the project.

BODY

The post docs have been working hard during this report year. They have submitted several research abstracts and presented research at various cancer conferences. Several training activities were scheduled for the post docs to attend. These training activities included both formal and informal interactions between the mentors, the consultants, the advisors and the faculty post docs. They have taken place via email, telephone conferences, and face-to-face meetings. Dr. Sylvia Flack, the PI of this project has also had consistent interactions with those involved in the project. She and Dr. Fannie Gaston-Johnson, the co-investigator of the project from JHU, communicate at least monthly. She also continues to interact with the Dr. Bodiford Lee Stackhouse who is an advisor on the project. Dr. Flack has had extensive contact with Dr. Sharon Jackson. Dr. Jackson is a consultant from Wake Forest University and is involved in the Piedmont Alliance for Cancer Research and Education (PACRE) breast cancer project. Dr. Flack serves as PACRE board member.

Develop and Submit Grant Applications

Several grant applications were developed and submitted during this report year. One of the post docs submitted a grant to the Susan G. Komen Breast Cancer Foundation entitled “Improving Early Detection & Treatment of Breast Cancer Among Underserved Women Living in Public Housing Communities. This grant received funding ($34,924.00). Another grant entitled “Breast Cancer Screening Adherence in Older African-American Women,” was submitted to the Piedmont Alliance for Cancer Research and Education (PACRE). A grant proposal related to the tumor marker study was also submitted to PACRE at Wake Forest University.

On a yearly basis, the faculty post docs travel to Johns Hopkins to meet with their mentors. These visits took place on April 21 through April 25, 2003 for some of the post docs. The others met on July 6 through July 11, 2003. These meetings allowed the post docs to have one-on-one discussions with their mentors, to meet directly with the biostatistician and to collaborate with established cancer researchers from well-known
organizations ie NIH and NINR. Outcomes for these visits included the critiquing of their manuscripts, critiquing of the research proposals that were submitted for funding for the pilot studies and to identify additional funding mechanisms for the pilot studies.

The training activities of the post docs have included seminars by WSSU and WFUBMC consultants and advisors. These were opened to all faculty at WSSU. Seminars were presented on a number of qualitative research issues including: 1) Sampling and Sample Size, 2) Measurement Error and 3) Survival Analysis.

Design and Implement Breast Cancer Pilot Studies
In Phase 2 The pilot studies are slated to be designed and implemented. The post-docs are at various stages of this phase. One post doc has gained approval from the WSSU IRB. All post docs have developed research models, develop and refined the research question, and conducted literature searches. One post-doc is in the development stage of the survey instrument. The following are the approved research questions along with the research model:

**Pilot Study 1**
**Knowledge of Breast Cancer Tumor Marker Results as a Predictor of Emotional Distress**

**Research Question**
Does Knowledge of Cancer Tumor Markers Predict Emotional Distress?

**Research Model**

**Predictors**

- Knowledge of Breast Cancer Tumor Marker Results

**Outcomes**

- Stress
- Depression
- Anxiety
- Coping

**Moderators/Mediators**

- Tumor Size
- Tumor Stage
- Metastasis
- Treatment History and Type
- General Health Status
- Fatigue
- Demographics
Pilot Study 2:
Research Question: What are the predictors of functional status in older minority women who have been treated for breast cancer?

Dependent Variable: Level Functional Status (physical, emotional, and social)
Independent Variables: Symptoms and Disease and Treatment (level of pain, fatigue, depression, anxiety, sleep, presence of lymphadema, stage of disease, type of treatment).

Research Model

**Symptoms**
- Pain
- Fatigue
- Depression
- Anxiety
- Sleep Disorder
- Lymphadema

**Disease and Treatment**
- Stage of disease
- Type Surgery
- Chemotherapy
- Radiation Therapy
- Reconstructive Surgery

**Moderators**
- Social Support
- Spiritual Well-Being
- Coping Strategies
- Rehab. Services

**Functional Status**
- Physical functioning
- Psychosocial Functioning

**Confounders**
- Age
- SES
- Role Demands
- Comorbidity
Pilot Study 3
Factors That Predict Elderly Women’s Ability to Detect Breast Tumor Size

Research Question
What is the relationship between hand and upper extremity function, and tactile sensitivity of the fingers and the ability of elderly minority women to detect breast tumor size?

Research Model
Pilot Study 4  
Breast Cancer Screening Adherence in Elderly Minority Women

Research Question  
What are the relationships among stress, knowledge of BSE, coping, tumor size (cancer stage) and adherence to breast screening activities?

Research Model
Training Program for Future WSSU Researchers
The training process has been initiated for future WSSU researchers. The post docs have started to identify future researchers in their respective areas. Dr. Donna Leach is the chair of Clinical Laboratory Sciences at WSSU (see Appendix C) is the mentee of Dr. Denny Ryman. Dr. Patricia Bowyer-Johnson is an assistant professor in the Occupational Therapy Department (see Appendix D) and is the trainee of Dr. Lynda Baldwin. The post docs along with their trainees have attended breast cancer conferences, seminars and research workshops. This includes the Second Annual Future of Breast Cancer: An International Breast Cancer Congress conference from July 30 – August 4, 2003 in Banff, Canada. Dr. Bowyer-Johnson was able to attend the sessions at Johns Hopkins this spring and has started to work with mentor Dr. Vickie Mock. After attending this session, Dr. Bowyer-Johnson has designed a breast cancer project. A shortage in faculty members has prevented the other post docs from identifying and training a future breast cancer researcher at this time. As the faculty shortage is in the resolution phase, the post docs will soon be able to achieve this goal.

Interdisciplinary Team Meeting
The Interdisciplinary Team meets yearly for updates, revisions, and to keep an overall consensus for the project. This years meeting had to be rescheduled due to unforeseen circumstances. The meeting will take place in December 2003. Specifics of the meeting will be included in next years report.

Staffing Changes
Dr. Campbell project director has committed to a Principal Investigator role in another project August 2003. An additional project director has not been identified at this time.

Rodger Melton was the new director of the Community Family Practice and Wellness Center (formerly University/Community Wellness Center) and had assumed the role of securing sites for data collection and subjects. In July 2003, Mr. Melton accepted a position at another facility and therefore resigned from the university. Ms. Jo Dowell is the interim director for the Community Family Practice and Wellness Center. Ms. Dowell has extensive experience in research and working with the underserved population (see Appendix A). Dr. Anne Belcher joined the project as a mentor from JHU. Dr. Belcher is currently a Senior Associate Dean for Academic Affairs at JHUSON. She brings to the project an extensive background in cancer research (see Appendix B). As mentioned in last years report, Dr. Hamdy Radwan joined the project at a later date. He has designed his pilot study and has developed a research proposal under the supervision of his mentor Dr. Anne Belcher at JHUSON. They plan to obtain IRB approval by the end of this year.

Research Center
The research center is now housed in the addition to the current SOHS' building. Resources for the research center are collected continuously. Below is a list of items that are housed in the center. These items were previously obtained and included in last years report. Books identifying potential funding sources and additional cancer related articles have been added to this list.
• Approximately 500 (+) articles on breast cancer and related topics have been obtained and are ready to be filed
• Bibliographic software has been purchased for each of the faculty post docs. In addition, the software has been loaded on a computer in the Research Center that will contain references on each of the articles on file
• All grants submitted in the School of Health Sciences have been placed in notebooks for faculty review
• Guidelines and application for IRB approval are on file
• Internal processing forms for external grant submissions are on file
• Research design books have been purchased
• Computers, which will store quantitative and qualitative statistical packages, have been purchased
• Lists of books identifying potential funding sources

KEY RESEARCH ACCOMPLISHMENTS
• Dr. Sylvia Flack, PI, presented a session entitled “Developing a Training Program in Breast Cancer Research to Decrease the Disparity of Morbidity and Mortality in Underserved/Minority Women” at the Community-Based participatory Research Workshop -Center for Innovation in Health Disparities Research; in Chapel Hill, NC - September 16, 2003.

Sits on the board of the Piedmont Alliance for Cancer Research and Education (PACRE).

• Dr. Denny Ryman presented an oral presentation/discussion on breast cancer tumor markers for Advance Magazines in Charlotte, Spring 2003.

Attended and Presented:


Submitted:

Submitted a manuscript to the Journal of Psychosocial Nursing in September 2003; it has been accepted for review.

Submitted a grant proposal for tumor marker study to PACRE (Wake Forest University) in Fall 2003.

• Dr. Bobbie Reddick attended the Community-Based participatory Research Workshop – Center for Innovation in Health Disparities Research – September 16, 2003 in Chapel Hill, NC.

Attended:

The Seventh National Conference on Cancer Nursing Research – February 6-8, 2003 in San Diego, California.

Cancer Prevention in Underrepresented Minorities: How Do We Make It Work? April 11-13, 2003 – Winston-Salem, NC- Graylyn International Conference Center of Wake Forest University.

Presented:


“A Woman’s Touch” Breast Cancer Education Project at a WSSU - Faculty Seminar Luncheon – April 24, 2003.

Funding:


Submitted:


Abstract to the 2003 Congress of Oncology Nursing Society – Poster not selected for presentation.

Received:

School of Health Sciences Spirit Award for excellence in Faculty Poster Presentation – Research Day – April 8, 2003.

School of Health Sciences Spirit Award for Outstanding Scholarship – May 5, 2003.


REPORTABLE OUTCOMES:

Research
Abstracts:
- Dr. Bobbie Reddick submitted an abstract to the 2003 Congress of Oncology Nursing Society.

Presentations:
- Abstract was chosen for presentation at the Second Annual Future of Breast Cancer: An International Breast Cancer Congress in Banff, Canada.

Career Development
Grants and other funding
Applied for:
- A grant proposal related to the tumor marker study was also submitted to PACRE at Wake Forest University.

Received:

Appendix Materials (See Attachments)
Curriculum Vitae

Jo Dowell, MSN, APRN, PNP, FNP, BC, SANE
2980-I Walnut Forest CT
Winston-Salem, NC 27103
H (336) 794-7600 Wk (336) 761-2184 Wk cell (336) 414-9391
Email: abrabian2@aol.com
jadowell@email.unc.edu
dowellja@wssu.edu

EDUCATION

Doctoral student in Nursing, beginning, Summer, 2002
University of North Carolina at Chapel Hill
Chapel Hill, North Carolina

Post-Master Pediatric Nurse Practitioner, 2001
University of North Carolina at Chapel Hill
Chapel Hill, North Carolina

Master of Science in Nursing, December 1995
Family Nurse Practitioner
East Tennessee State University
Johnson City, Tennessee

Graduate Courses (12 credits) Computer Sciences:
Programming, June 1993
A & T State University
Greensboro, North Carolina

Bachelor of Science Degree in Nursing May 1991
Gardner-College
Boiling Springs, North Carolina

Associate in Applied Science, January, 1973
Bronx Community College
Bronx, New York

CERTIFICATIONS

Post-Master PNP Certificate
SANE Certified Number 75
Board Certified APRN
American Heart Association
    Pediatric Advance Life Support
    Basic Cardiac Life Support
Postgraduate certificate on sickle cell disease, 1983
ORGANIZATION MEMBERSHIP

North Carolina Pediatric Society
Sigma Theta Tau International
Section on School Health, American Academy of Pediatric
National Association of Pediatric Nurse Practitioners
NC Child Advocacy Group
Coalition for Healthy North Carolina Youth
Society on Adolescent Medicine
American School Health Association
American Nurses Association
NC Nurse Practitioner Council
American Academy of Nurse Practitioners
Northeastern Tennessee NP’s and PA’s Association (currently non-active)
National Health Service Corp
Lumberton International Rotary Club, Lumberton, NC
NC Coalition of Rural Health Providers

AWARDS

Sigma Theta Tau International
North Carolina Air Awareness Program Award, 2001
Winston-Salem State University Honors Society, 2001
Sprit Service Award at Winston-Salem State University, 2000
Professional Service Award, 2000
Deans Advisory Board for (1 year term)
College of Nursing
East Tennessee State University, (1994-1995)

HONORARIUM

2000, NC NAPNAP Conference
EMPLOYMENT HISTORY

October 9, 2000 - present
Winston-Salem State University, University/Community Wellness Center, 2050 East End Blvd, Winston-Salem, NC 27101, (336) 727-0617 ext.234. Responsibilities included but not inclusive healthcare provider providing diagnostic skills, prescribing, and treating acute illness. Develop a primary clinic in head start setting providing primary care to ages 3-5 year old and their family. Serving a population consist of 38% Hispanics and 60% Afro-American. As the only provider in the primary family practice clinic, oversee the billing; making necessary referrals; providing phlebotomy service; counseling and triaging as necessary. Also, provided health education and developing many programs. Served as the interim Directory of the WSSU: Community Family Practices. Presented at several health fair, providing mass screening as well. As a faculty member duties included teacher Health Assessment to RN/BSN students, precept students in the clinical environment. Participated in several classes as a guest speaker. Presented at various poster presentations.

May 22, 2000 - September 2, 2000
Guilford Child Health
400 E. Commerce Ave, High Point, North Carolina, 336-272-1050. Responsibilities included but not inclusive healthcare provider providing diagnostic skills, prescribing, and treating acute illness. Participated in several community health fairs.

October 5, 1998 - May 18, 2000
Firsthealth of the Carolinas, Community Health Services, Moore & Montgomery School Health Programs, 522 Allen Street, Suite 103, Troy, NC 27371, (910) 571-5510. Responsibilities included but not inclusive healthcare provider providing diagnostic skills, prescribing, treating acute illness, coordination of a new school-link health program, and meeting the health care needs of 9 schools from K-12. Provided health education classes on a variety of health related topics.
Provided some community health education classes to kindergarten parents. Participated in multiple health fairs and provided some health screening.

June 30, 1997 - October 1, 1998
Roland Primary Health Center, Affiliated with McLeod Physician’s Services, Inc., P.O. Box 804, 114 East Main Street, Rowland, NC 28383. Responsibilities included but not inclusive healthcare provider providing diagnostic skills, prescribing, and treating acute illness, coordination of new healthcare facility, management, and education of clients and the community about the center. Participated in marketing strategies, church health fair and screenings. Provided health information on local television station.

November 4, 1996 - May 31, 1997
Lake City High Health Connection affiliated with Black River Healthcare, Inc., 652 North Matthews Road, Lake City, SC 29560. Responsibilities included but not inclusive healthcare provider, coordination of new program, management, education of students, facility, and general public about health related issues. Participated in marketing of the health center through several television campaigns. Provided variety of other duties such as diagnostic skills, prescribing, and treating acute illness. As the only provider for these high-risk teens, address various health issues that applied. Develop several programs such as smoking cessation and "It's Ok to Wait". Wrote a "Coastal Report" reviewing the stats of this population.

January 2, 1996 - September 5, 1996
Mountain View Pediatrics, PA, 100 Medical Heights Drive, Morganton, NC 28655. Responsibilities included but not inclusive healthcare provider providing diagnostic skills, prescribing, and treating acute illness. Coordinate the setting up Emergency Protocol in a primary care practice. Instrumental in having all employees to be CPR certify. Provided on going community education by speaking before young teen single parents about parenting. Perform OB consultation to new parents. With admitting
privileges provided ongoing consultation the clients and parents. Participated in community health fairs.

May, 1994 - December, 1995
East Tennessee State University, Johnson City, TN, Graduate Assistant in School-Based Clinic. Responsibilities included clinician role, data entry, and general secretarial support. Plus, perform as research assistant to several professors on several grants and/or projects.

January 1973 – October 1994
Wake Forest University Baptist Medical Center, Brenner Children's Hospital, Winston-Salem, NC 27157, RN to Assist Head Nurse. Responsibilities included providing care for critically ill children to general pediatric care. Responsible included management of a staff about 20 on a neurosurgical unit, and management on general pediatric unit and Pediatric Intensive Care Unit. As a child’s advocate participated in a variety of health education related to children also community programs that affect the health outcome of children. Provided health education to teachers. Developed critical care reference cards for the staff in the PICU (1989).

August 1993 – July 1984
Winston-Salem State University, Winston-Salem, NC, Part-time clinical instructor. Responsibilities included teaching pediatric clinical for undergraduate nursing students. Provided some tutoring services during that time.

July 1982 – July 1984
Bowman Gray School of Medicine, Winston-Salem, NC, Pediatric Sickle Cell Nurse Coordinator. Responsibilities included coordinating the operation of a ($25,000 grant) sickle cell program in affiliation with BGSM. Provided support group and counseling for the sickle cell children and adolescents and their families. Provided several educational programs for the families.
VOLUNTEER SERVICES

April 2003
Medical Mission in Dominican Republic

March, 2002
Community Care Center, Winston-Salem, NC, Family &
Pediatric Nurse Practitioner. Responsibilities
included but not inclusive healthcare provider
providing diagnostic skills, prescribing, and treating
acute illness with women and children health

ADDITIONAL PEDIATRIC CLINICAL EXPERIENCES
Sandhills Pediatrics, Inc. (2001)
WakeMed Pediatric Urgent Care (2001)
Asheboro Pediatrics (2001)

PROFESSIONAL ACCOMPLISHMENTS

Medical Mission in Dominican Republic, April, 2003
Member of Durant Children's Center Advisory Council
Member of Pee Dee Coalition Against Domestic and
Sexual Assault Advisory Council
Founder and Chair, NC Pediatric Nurse Council, 1991–
1995
Appointed to the Cabinet on Research, North Carolina
Nurses Association, 1993-1995
Participated with the French/American Forum on
children, September 1993 sponsor by the French-
American Foundation
Developed pediatric critical care reference cards, 1991
Developed pediatric critical care nurse support group, 1991
Developed an orientation package for pediatric
critical care nurses, 1990
Contributed to the development of quality assurance in
the hospital, NCBH, 1983
Co-initiated name alert program for those with same
last names in NCBH, 1982
Proficient with computers—multiple software programs
from graphics, word processor, spreadsheets, and
statistical software. I have designed a computer-
assisted program for parents on safety prevention in
children.
Spanish Language – minimal ability to communicate
PUBLICATIONS


POSTER PRESENTATION

Dowell, J.A. (2002). "Catch me if you can." Poster session presented at Wake Forest University Baptist Medical Center’s Best Health: Healthy, Wealthy, & Wise Expo, Winston-Salem, NC.


LEADERSHIP

Interim Director of the WSSU: University/Community Wellness Center (April - June, 2002)

CURRENT COMMITTEES

Chair, Legislative Committee, Charlotte Chapter, NAPNAP, 2003
Health Advisory Committee for Forsyth County Family Services, Inc., 2002, 2003
School Health Advisory Committee for Forsyth County Advisory Committee (Search Committee for Graduate Nursing Program), 2002
Chair Hispanic Community Health Committee (2001-presently), 2002
Research Committee, 2002

Reference upon request
Curriculum Vitae

PERSONAL DATA:

Anne E. Belcher, PhD, RN, AOCN, FAAN
Senior Associate Dean for Academic Affairs
Johns Hopkins University, School of Nursing
Room 465, 525 N. Wolfe Street
Baltimore, MD 21205-2110
Telephone Number: 410-614-4081
Fax Number: 410-955-7463
Abelche2@son.jhmi.edu

Home Address:
101 N. Collington Avenue
Baltimore, MD 21231
Telephone Number: 410-675-2795

EDUCATION AND TRAINING

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<td>The Florida State University</td>
<td>Higher Education</td>
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<td>1975</td>
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<td>University of Washington</td>
<td>Medical-Surgical</td>
<td>M.N.</td>
<td>1968</td>
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<td>Nursing Education</td>
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<td>University of North Carolina</td>
<td>Nursing</td>
<td>B.S.N.</td>
<td>1967</td>
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<td>Chapel Hill, North Carolina</td>
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CURRENT LICENSE AND CERTIFICATION

Maryland RN License – R100189
2002 Oncology Nursing Certification Corporation Advanced Oncology Certified Nurse
Expiration date, 2006.

PROFESSIONAL EXPERIENCE

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<td>Senior Associate Dean for Academic Affairs</td>
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<td>5/2002-12/2002</td>
<td>Associate Professor, Acting&lt;br&gt;Associate Dean for Professional Education Programs and Practice</td>
<td>Johns Hopkins University&lt;br&gt;School of Nursing</td>
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<tr>
<td>8/00 to 4/2002</td>
<td>Professor and Director&lt;br&gt;Undergraduate Program</td>
<td>Thomas Jefferson University&lt;br&gt;College of Health Professions&lt;br&gt;Department of Nursing&lt;br&gt;Philadelphia, Pennsylvania</td>
</tr>
<tr>
<td>7/98 to 8/2000</td>
<td>Associate Professor&lt;br&gt;Department of Adult Health Nursing</td>
<td>University of Maryland&lt;br&gt;School of Nursing&lt;br&gt;Baltimore, Maryland</td>
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<td>1/98-6/98</td>
<td>Sabbatical</td>
<td>University of Maryland, Baltimore</td>
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<tr>
<td>9/97-12/97</td>
<td>Senior Specialist for Curriculum Development and Evaluation</td>
<td>University of Maryland&lt;br&gt;School of Nursing&lt;br&gt;Baltimore, Maryland</td>
</tr>
<tr>
<td>7/92-9/97</td>
<td>Chairperson, Department of Acute and Long-term Care Nursing</td>
<td>University of Maryland&lt;br&gt;School of Nursing&lt;br&gt;Baltimore, Maryland</td>
</tr>
<tr>
<td>8/90-6/92</td>
<td>Acting Chairperson, Department of Psychophysiological Nursing</td>
<td>University of Maryland&lt;br&gt;School of Nursing&lt;br&gt;Baltimore, Maryland</td>
</tr>
<tr>
<td>8/88-7/90</td>
<td>Associate Professor, Nursing</td>
<td>University of Maryland&lt;br&gt;School of Nursing&lt;br&gt;Baltimore, Maryland</td>
</tr>
<tr>
<td>1988-2000</td>
<td>Associate Professor, Greenbaum Cancer Center</td>
<td>University of Maryland&lt;br&gt;School of Medicine&lt;br&gt;Baltimore, Maryland</td>
</tr>
<tr>
<td>6/86-8/87</td>
<td>Associate Dean for Academic Affairs</td>
<td>Columbia University&lt;br&gt;School of Nursing&lt;br&gt;New York, New York</td>
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<tr>
<td>9/85-7/88</td>
<td>Associate Professor of Clinical Nursing</td>
<td>Columbia University&lt;br&gt;School of Nursing&lt;br&gt;New York, New York</td>
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<td>7/83-7/85</td>
<td>Director of Nursing&lt;br&gt;Staff Development</td>
<td>University of Alabama&lt;br&gt;Hospitals&lt;br&gt;Birmingham, Alabama</td>
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<td>Clinical Associate Professor</td>
<td>University of Alabama&lt;br&gt;School of Nursing&lt;br&gt;Birmingham, Alabama</td>
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6/81-7/85  Part-time Staff Nurse  University of Alabama Medical Oncology Hospital  Birmingham, Alabama
9/77-6/83  Associate Professor  University of Alabama in MSN/DSN Programs  Birmingham, Alabama
            Coordinator, MSN Program  School of Nursing  in Adult Health Nursing  Birmingham, Alabama
9/75-8/77  Assistant Professor  The Florida State University  Co-Director, Curriculum  School of Nursing  of Attainments for RNs  Tallahassee, Florida
            Tallahassee, Florida
9/72-8/75  Instructor, Coordinator  The Florida State University  Level III, Nursing of  School of Nursing  Patients with Extended  Tallahassee, Florida  Health Problems
6/72-8/72  Staff/Charge Nurse  Tallahassee Memorial Hospital  Medical Unit  Tallahassee, Florida
9/69-6/72  Instructor, Medical-  The Florida State University  Surgical Nursing  School of Nursing
6/69-8/69  Staff/Charge Nurse  North Carolina Memorial ICU  Hospital  Chapel Hill, North Carolina
9/68-6/69  Instructor, Medical-  The Florida State University  Surgical Nursing  School of Nursing  Tallahassee, Florida
6/67-8/67  Staff/Charge Nurse  North Carolina Memorial  Surgical Unit  Hospital  Chapel Hill, North Carolina

HONORS AND AWARDS

2000  American Cancer Society Certificate of Appreciation For Outstanding Service to The ACS Reach to Recovery Program, Greater Baltimore Unit
2000  Certificate of Appreciation, Hadassah of Baltimore
2000  Recipient of the 50th Anniversary Dean's Award for Distinguished Contributions to Nursing Education, University of North Carolina at Chapel Hill, November 9, 2000.
1997  Martin L. Weil Award, Maryland Council, American Cancer Society
1996  Inducted into Fellowship in the American Academy of Nursing Chair, Expert Panel, Palliative and End-of-life Care (2001 - )
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<tr>
<th>Year</th>
<th>Award</th>
</tr>
</thead>
<tbody>
<tr>
<td>1992-1995</td>
<td>American Cancer Society Professor of Oncology Nursing</td>
</tr>
<tr>
<td>1988-1991</td>
<td>Maryland Division, American Cancer Society, Professor of Oncology Nursing</td>
</tr>
<tr>
<td>1988</td>
<td>Alumnus of the Year, University of North Carolina at Chapel Hill School of Nursing Alumni Association</td>
</tr>
<tr>
<td>1985</td>
<td>Arkansas Traveler, Office of the Governor</td>
</tr>
<tr>
<td>1985</td>
<td>Plaque of Appreciation, American Cancer Society, Alabama Division</td>
</tr>
<tr>
<td>1982</td>
<td>Honorary Lifetime Member, Florida Association of Nursing Students</td>
</tr>
<tr>
<td>1980</td>
<td>Volunteer of the Year, American Cancer Society, Alabama Division</td>
</tr>
<tr>
<td>1979</td>
<td>Omicron Delta Kappa</td>
</tr>
<tr>
<td>1977</td>
<td>Certificate of Appreciation, American Cancer Society, Florida Division</td>
</tr>
<tr>
<td>1976</td>
<td>Who's Who in Florida</td>
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<tr>
<td>1974</td>
<td>Phi Kappa Phi</td>
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<tr>
<td>1966</td>
<td>Sigma Theta Tau</td>
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<tr>
<td></td>
<td>Vice President, Beta Pi Chapter (1975-1976)</td>
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<tr>
<td></td>
<td>President, Beta Pi Chapter (1976-1977)</td>
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<tr>
<td></td>
<td>Treasurer, Nu Chapter (1978-1982)</td>
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<tr>
<td></td>
<td>Regional Chapter Coordinating Committee, Region III (1981-1985)</td>
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<tr>
<td></td>
<td>Recipient, Outstanding Nurse Leader Award, Nu Chapter (1983)</td>
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<tr>
<td></td>
<td>Member, National Bylaws Committee (1985-1987)</td>
</tr>
<tr>
<td></td>
<td>President, Alpha Zeta Chapter (1986-1988)</td>
</tr>
<tr>
<td></td>
<td>First Vice-President, Pi Chapter (1991-1993)</td>
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<tr>
<td></td>
<td>Graduate Counselor, Pi Chapter (1996-1998)</td>
</tr>
<tr>
<td></td>
<td>Member, Delta Rho (2000-2002)</td>
</tr>
<tr>
<td></td>
<td>Member, Nu Beta (2002- )</td>
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</table>

**SPONSORED PROJECTS – Intramural and Extramural**

- **2002**  
  Co principal investigator with Margaret Griffiths, "An analysis of spiritual expression and spiritual care among hospice and home care nurses," Thomas Jefferson University College of Health Professions, Department of Nursing Research Seed Grant, $1200.

- **2001**  
  Co principal investigator with Margaret Griffiths, “An analysis of spiritual expression and spiritual care,” Thomas Jefferson University College of Health Professions, Department of Nursing Research Seed Grant, $1500.

- **1992**  
  Co-investigator, "Practices and attitudes regarding spiritual care: A survey of oncology nurses." Spiritual Care Special Interest Group, Oncology Nursing Society (funded).

- **1992-1995**  
  American Cancer Society Professor of Oncology Nursing (funded), $75,000.

- **1991**  
  Co-investigator, "Prediction of coping efficacy in patients diagnosed with lymphoma, breast
prostate or cervical cancer." PI L. Robinson. Received UM Graduate School SRIS and GRA funding.

1990
Site investigator, collaborative study, "Knowledge and beliefs regarding pain in a sample of nursing faculty." M. Donovan, B. Ferrell, and D. McGuire, PIs, funded by I.E. DuPont De Nemours and Co, Inc.

1989

1989
Carson, V., Soeken, K. & Belcher, A. "The relationships among the concepts of spiritual well-being, hardiness, and ego strength in persons with acquired immunodeficiency syndrome (AIDS)." Funded by Pi Chapter, Sigma Theta Tau.

1988-1991
Maryland Division American Cancer Society Professor of Oncology Nursing (funded).

Fall 1988
Recipient, University of Maryland School of Nursing DRIF funds for study "Spirituality in Persons with AIDS."

1988
Author, Advanced Nurse Education Program: Oncology Nurse Specialist, Continuation Grant, Division of Nursing, HHS, Awarded to Columbia University School of Nursing.

1986-1988
Project Director, Advanced Nurse Education Program: Oncology Nurse Specialist. Division of Nursing, DHHS, Awarded to Columbia University School of Nursing.

1984
Author, Expansion Master's Adult Health Major - Trauma CNS Option Advanced Nurse Training Program, Division of Nursing, HHS, Awarded to University of Alabama School of Nursing.

1979-1983
Principal Investigator and Project Director, Development of a Model Post- Master's Fellowship Program in Oncology Nursing Education. National Cancer Institute. Awarded to University of Alabama School of Nursing.

UNSPONSORED PROJECTS – Intramural and Extramural

1999
Principal investigator, “Parental coping with childhood cancer” with Hae Ra Han.

Principal investigator “Comparative cytogenetic study among nurses dealing with malignancy treatments” with Bahiga Galal, University of Menoufiya, Egypt.

1993
Co-investigator, "Instruction in the techniques and concept of supportive care in oncology," with C. Belani, R. Sridhara, S. Schimpff. UM School of Medicine.

1992
Site coordinator, Pilot testing draft of AHCPR Cancer Related Pain Guidelines.

1988
1987-1988 Memorial Sloan-Kettering Cancer Center

1. One of ten investigators responsible for a study conducted in the Post-Anesthesia Care Unit (PACU) - "A comparison of three nursing interventions to warm patients and reduce the duration of hypothermia in the PACU."

2. Consultant to nurses in the Bone Marrow Transplant Unit conducting "A multiphasic exploratory study to identify factors affecting nursing time spent administering oral nonabsorbable antibiotics in a laminar airflow."

3. Consultant to nurses in the Special Care Unit who conducted a study which resulted in a policy change - "A comparison of two techniques for obtaining partial thromboplastin times: Arterial line vs. venipuncture."


**SCHOLARSHIP**

**Publications**

**Journal articles**


Belcher, A. E. How to maximize your clinical experience. *Imprint, September 1980.*

**Books/book chapters, monographs, edited symposia**


Editorials, reviews


Abstracts/Posters

"An Analysis of Spirituality in Nursing Education," (with Peggy Griffiths), Poster presentation, Fifth Summer Institute of the Chicago Institute for Nursing Education, Saint Xavier University, Chicago, IL, June 20,
2003.


"Clinical Informatics Faculty Role in Baccalaureate Education," (with Barbara Van de Castle), Poster presentation, 8th International Congress in Nursing Informatics, International Medical Informatics Association, Rio de Janeiro, Brazil, 2003.

"Tending the spirit," (with Peggy Griffiths, Joyce Stout, Anne Delegauski), Poster presentation for Nurses Day Celebration, Thomas Jefferson University Hospital, Philadelphia, PA, May 8, 2002.


"The relationship between spiritual perspective and sense of well-being in persons with AIDS," Poster presentation at the Fourth Annual Oncology Nursing National Cancer Institute, Bethesda, MD, October 23, 1989.


**Presentations**

**International**

"Instruction in the concept and techniques of supportive care in oncology," (with co-investigators Belani, C., Sridhara, R. and Schimpff, S.), Multinational Association for Supportive Care in Cancer, St. Gallen, Switzerland, Fall, 1994.


**National**


"Critique of 'Nurses caring for the spirit: Cancer patient and family caregiver expectations,'" Advanced Research
Session, Oncology Nursing Society Congress, Washington, DC, April 18, 2002.


Series of lectures for CEs at Sea, September 26-October 3, 1999.

"Education for advanced practice," Oncology Nursing Society Fall Institute, Dallas, TX, November 14, 1998.


"Don't laugh now, but," National Association of Neonatal Nurses 12th Annual National meeting, Nashville, TN, September 14, 1996.


"Creative nursing staff development," 1990 American College Health Association Annual Meeting, San Antonio,
TX, June 1, 1990.

"The challenge of caring," Annual Conference of Service and Rehabilitation Directors, American Cancer Society, Atlanta, GA, May 9, 1990.

Keynote speaker, Annual Student Nurse Conference, American Cancer Society, Philadelphia Division, Philadelphia, PA, April 24, 1990.


"Workhorses or Wonder Workers," Association of Pediatric Oncology Nurses Annual Conference, Atlanta, GA, October 13, 1989.


**Regional**


"The essence of oncology nursing" and "Nursing...So what's to laugh about," United Health Services 10th Anniversary Oncology Teaching Day, Owego, New York, March 13-14, 2002.


"With all due respect..." Brigham & Women's Hospital, Boston, MA, May 17, 2000.


Keynote address and closing remarks, Annual Cancer Nursing Conference, American Cancer Society, Montgomery, AL, September 15, 1998.


Workshop on Mentorship, St. Jude Children's Research Hospital, Memphis, TN, May 13, 1998.


"Nursing in the 21st century: Do we have what it takes?" New York Hospital Division of Nursing Excellence in Nursing Awards, New York City, November 12, 1997.


"Coping with cancer," Annual Oncology Nursing Conference, American Cancer Society, Jackson, MS, March 6, 1997.

"Laughter as therapy," Dallas Chapter, Oncology Nursing Society, Dallas, TX, January 28, 1997.

"Humor: It can't hurt," Tressler Lutheran Services Staff Conference, Harrisburg, PA, October 17, 1996.


"Care of the caregivers," "Maintaining hope during challenging times," Oncology Update, American Cancer Society, Jackson, MS, April 18-19, 1996.

"Humor: It can't hurt," Chronic Wound Management: Implications for the Extended Care Practitioner, Baltimore, MD, November 2, 1995.


"Humor in nursing," Richmond Area Chapter, Oncology Nursing Society, Richmond, VA, January 10, 1995.


"Communications & decision making," Humor as a coping strategy: So what's to laugh about?" The Cancer Care Continuum: Meeting the challenges of end stage disease, American Cancer Society and Tidewater Regional Cancer Network, Hampton, VA, April 21, 1994.

"What's important to the administrators?" Strategies for Graduate Faculty: Internal demands vs. external realities, SCCEN Workshop, Baltimore, MD, April 20, 1994.


"Humor as a coping strategy," Coping Strategies for Caregivers, Maryland Department of Health and Mental Hygiene, Hagerstown, MD, March 30, 1993.


"What's so exciting about nursing research?" Induction Program, Eta Beta Chapter, Sigma Theta Tau International, Widener University School of Nursing, November 21, 1992.


"Laughter as therapy," Nursing Spectrum Fall Career Forum, Meadowlands Convention Center, New Jersey, November 9, 1992.


"Developing a sense of well being for those with cancer;" "The relationship of humor and spirituality," John E. Stanwood Cancer Rehabilitation Lectureship, Good Samaritan Hospital & Medical Center, Portland, OR, September 11-12, 1992.


"Being a nurse in the 90's and coping through humor," "Maintaining personal and group morale during stressful times," Baptist Medical Center Montclair, Birmingham, AL, May 5, 1992.


"Care for the caregiver," Second Annual Seminar on Innovations in Cancer Care, American International Hospital of Zion, Illinois, Gurnee, IL, March 20, 1992.


"The role of humor in stress management," Fifth Annual Medical-Surgical Nursing Update, Peninsula General Hospital/Medical Center, Salisbury, MD, February 20, 1992.

Workshop on issues in oncology nursing, Birmingham, AL, January 17, 1992.


"The role of humor in oncology nursing," Eastern Shore Oncology Conference, American Cancer Society/Peninsula General, Salisbury, MD, November 1, 1991.

Keynote address, Mississippi Association of Student Nurses Convention, Biloxi, MS, October 25, 1991.


"Stress management," Nurses' Week Celebration, Veterans Administration Medical Center, Wilmington, DE, May 7, 1991.


Keynote address, The Joy of Nursing Practice, Winthrop-University Hospital Nurse Specialist Group, Old Westbury, NY, November 8, 1990.

Speaker, Fifth Annual Reach to Recovery Leadership Workshop, American Cancer Society, New York State Division, Syracuse, NY, October 16, 1990.

"Oncology Nurses Coping with the Ethics of Healthcare Technology," Regional Medical Ethics Colloquium, Greater Baltimore Medical Center, Baltimore, MD, September 28, 1990.

Keynote address, Something for Everyone, a NAACOG Potpourri, Clinton, MD, September 27, 1990.


Nurse tutor, American Cancer Society, Maryland Division, Somerset and Caroline Counties, June, 1990.

Overview, trends, and perspectives in caring for the chronically and terminally ill from the professional and patient view point," and "Pain management," Caring for the Chronically and Terminally Ill, American Cancer Society, Alabama Division, and The Gulf Coast Oncology Nursing Group, Mobile, AL, June 2, 1990.

"Balancing your personal and professional lives," Women and Infants Health Care, Toward the 21st Century, NAACOG Delaware Section, Ocean City, MD, May 11, 1990.


"Survival for the oncology nurse," Cancer: Beat It!, Northeastern Ohio Universities College of Medicine Area Health Education Center, Regional Oncology Nursing Committee, The University of Akron College of Nursing, and American Cancer Society, Portage County Unit, Rootstown, OH, March 21, 1990.

"Nurses-Workhorses or wonderworkers?," Central Connecticut Chapter of the Oncology Nursing Society, Hartford, CT, March 20, 1990.

The challenge of caring." Eighth Annual Caring Conference, North Mississippi Medical Center, Tupelo, MS, March 19, 1990.

"Cancer Nursing Update," Washington County Hospital and American Cancer Society, Workshop, Hagerstown, MD, December 5, 1989.

Keynote address, Mississippi Association of Student Nurses Annual Convention, Biloxi, MS, November 2, 1989.

Keynote address, Fifth Annual Nurse Care Conference, Northwest Area Health Education Center, Winston-Salem, NC, October 30-31, 1989.

"Nurses United," Alabama State Nurses' Convention, Keynote speaker, Huntsville, AL, October 18, 1989.


"Caring for the Caregiver," Delaware Nurses' Association Convention, Newark, DE, October 6, 1989.

"Cancer Nursing as a Specialty," Oncology Nursing Society, Greater Louisville Chapter Kentucky Cancer Program,
American Cancer Society, Jefferson County Unit, University of Louisville School of Nursing, Louisville, KY,
September 12, 1989.

"The Rewards of Clinical Nursing Research," Graduation Ceremony, University of North Carolina at Chapel Hill,

"Humor in Nursing," Nursing Recognition Week, St. Luke's/Roosevelt Hospital Center, New York, NY, May
8, 1989.

"Humor, Medicine, and Healing." 12th Annual Meeting, Home Care Association of New York State, Inc., The

"Communication with Cancer Patient: Critical Component of Care," Tidewater Regional Cancer Network
Workshop, Eastern Virginia Medical Center, Virginia Beach, VA, April 27, 1989.

"Emotional Aspects/Psycho-social Effects of Breast Cancer on the Patient and Family," Fifth Martin Lecture, The
Christ Hospital, Cincinnati, OH, April 22, 1989.

"Translating Nursing Research Into Practice," Seventh Annual Research/Clinical Papers Day, The University of
South Alabama College of Nursing, Mobile, AL, April 21, 1989.

"Changing Adversaries into Allies," and "Laughter and Therapy," Oncology Nursing Workshop, Northwest AHEC
and American Cancer Society, Winston-Salem, NC, April 4, 1989.

"The Emerging Role of the Oncology Nurse," Meeting of the Piedmont Triad Chapter of the Oncology Nursing

"Do's and Don'ts of Public Speaking," Professional Development, New York City Chapter AACN, New York, NY,
March 11, 1989.

"Cancer, Nutrition and the Nurse," 1989 Oncology Update, University of Mississippi Medical Center, Jackson,
MS, March 2, 1989.


"Examination of the Relationship between Spiritual Perspective and Sense of Well Being in People with AIDS-A

Chemotherapy," Current Trends in Pharmacology, The Presbyterian Hospital Department of Education, Research
and Development, Division of Nursing, New York City, October 25, 1988.

"Laughter Therapy in Nursing," Educational Retreat, Pinellas County Chapter, Oncology Nursing Society,
Clearwater Beach, FL, October 8, 1988.

"Staging and Diagnosis" and "Medical Emergencies" Memorial Sloan-Kettering Cancer Center and Columbia
University School of Nursing First Annual Certification Review Course, New York, NY, September 30 –
October 1, 1988.
Local


Presenter, "Humor and health," Third Annual School Health Interdisciplinary Program, University of Maryland School of Medicine, Ellicott City, MD, July 25, 2003.


Keynote Address, Maryland Association of Nursing Students, Baltimore, MD, January 25, 2003.


"Spirituality in HIV and AIDS", Xi Chapter, Sigma Theta Tau, University of of Pennsylvania, and Nu Eta Chapter, MCP Hahnemann University, October 30, 2002.


"If I am the leader, why is everyone laughing?" 22nd Anniversary Induction, Delta Rho Chapter, Sigma Theta Tau International, Philadelphia, PA, May 8, 2002.

"The nurse's role in spiritual care: Tending the spirit in hospitalized persons," (with Peggy Griffiths and Joseph Leggieri), Thomas Jefferson University Hospital, Philadelphia, PA, April 23, 2002.


"Humor in nursing," Pediatric nursing staff meetings, Johns Hopkins Hospital, Baltimore, MD, October 4, November 1, 2001.

"So what's to laugh about: Humor in nursing," Nurses' Week Celebration, St. Mary's Hospital, Leonardtown, MD, May 9, 2001.

Speaker, "So what's to laugh about?" Susan G. Komen Maryland Affiliate Annual Conference, Baltimore, MD, April 27, 2001.


"Coping with the challenges of cancer nursing," Sacred Heart Hospital, Cumberland, MD, June 17, 2000.

"Coping with the challenges of nursing," Calvert Memorial Hospital, Calvert County, MD, May 8, 2000.

Speaker, “I work for free and I love it!” Stella Maris Hospice Volunteer Appreciation Dinner, Timonium, MD, April 11, 2000.


Speaker, “Humor as a coping strategy in cancer,” Sinai Hospital, Baltimore, MD, July 7, 1999.


“A time for laughter,” Allegany College of Maryland, Cumberland, MD, May 26, 1999.


“Humor in healthcare,” Howard County General Hospital Nurses’ Week, Columbia, MD, May 4-5, 1999.

“Laugh lines, not wrinkles-Using humor to deal with menopause,” Anne Arundel Medical Center, Annapolis, MD, May 2, 1999.

“Nursing—so what’s to laugh about?” Greater Baltimore Medical Center Nursing Celebration, Baltimore, MD, April 13, 1999.


Endnote speaker, Maryland Association of Nursing Students Annual Meeting, Annapolis, MD, February 27, 1999.

"A time for laughter," UMS Women's Forum, Towson University, Towson, MD, November 12, 1998.

"The Do's and Don'ts of Humor in Diverse Cultures," 95th Annual Convention, Maryland Nurses Association, Frederick, MD, October 22, 1998.

"Spirituality and later life," GGEAR conference, Mental Health Issues and the Older Adult, Prince Frederick, MD, October 7, 1998.

"Humor as a coping strategy," 1st Annual Cardiac Symposium, Union Memorial Hospital, Baltimore, MD, October 2, 1998.

"Humor as a coping strategy," Union Hospital of Cecil County, Elkton, MD, September 24, 1998.


Speaker, "Fresh start for families program," Managed Care Consortium, Baltimore, MD, June 30, 1998.


"Using humor to cope with the challenges of caregiving." UMB GGEAR Southern Maryland Caregivers conference, LaPlata, MD, May 1, 1998.


Speaker, "The healing power of humor," Cancer Support Group, Sinai Hospital, Baltimore, MD, April 1, 1998.


Speaker, "Coping with stress through humor," Diabetic and Cardiac Rehabilitation Support Groups, St. Agnes Hospital, Baltimore, MD, March 16, 1998.

"The changing role of the nurse," Chesapeake Health Education Program, Nursing for the 90s, Perry Point Veterans Administration Medical Center, MD, March 3, 1998.

Speaker, "Fresh start for families program," Mid-Atlantic Division, American Cancer Society Summit, Fairfax, VA, February 6-7, 1998.


"Humor in healing and medicine," Bon Secours Nursing Alumnae Association, Ellicott City, MD, June 10, 1997


"Humor in the health care setting," Washington County Hospital Association, Hagerstown, MD, May 14, 1997

"Celebrate nursing with humor," Nurses Week Celebration, Inova Fairfax Hospital, Fairfax, VA, May 14, 1997

"Humor in nursing - Don't laugh now, but..." Washington Metropolitan Association of Neonatal Nurses, Bethesda, MD, May 9, 1997

"Humor in nursing," Nurses Week Celebration, Levindale Hebrew Geriatric Center and Hospital, Baltimore, MD, May 6, 1997

"Laughter as therapy," Nurses Week Celebration, Good Samaritan Hospital, Baltimore, MD, May 5, 1997

Speaker, Breast cancer survivors' luncheon, American Cancer Society, Maryland Division, Rising Sun, MD, April 28, 1997.

Speaker, "Breast self-examination," Hadassah Check It Out Program, Hereford High School, Sparrows Point High School, Randallstown High School, Spring, 1997; St. Elizabeth's School, Fall, 1999; Bais Yaakov School, Walbrook High School, Fairmount-Harford High School, Spring, 2000.

"Laughter as therapy," Kernan Hospital, Baltimore, MD, March 7, 1997.

"Laughter as therapy," Social Work Month, Mercy Medical Center, Baltimore, MD, March 5, 1997.

Keynote address, Maryland Association of Nursing Students, Ocean City, MD, February 22, 1997.


Speaker, Annual meeting, AIDS Alliance of Howard County, Columbia, MD, January 21, 1997.


"Laughter as therapy," Capital Home Health Association Annual Fall Conference, Bethesda, MD, October 24, 1996.

"Humor to relieve stress," Central Maryland Chapter, National Multiple Sclerosis Society, Catonsville, MD, September 21, 1996.

Speaker, ONCC Review, Union Memorial Hospital, Baltimore, August 25, 1996.

"Humor in nursing," Second Annual Spring Conference, Villa Julie College/Union Memorial Hospital, Baltimore, May 8, 1996.

"Humor: It can't hurt," District 1 MNA, Cumberland, MD, May 7, 1996.

"Psychosocial care--coping, death/dying," Caring for the patient with cancer-- Physically & Psychosocially, Washington County Hospital Association, Hagerstown, MD, April 9, 1996.
"If I had wanted to be a part of healthcare redesign, I would have become a seamstress," Maryland Society of Clinical Nurse Specialists, Baltimore, April 2, 1996.

Keynote speaker, Annual Student Nurse Convention, Maryland Association of Nursing Students and Student Nurses of the District of Columbia, Annapolis, MD, March 9, 1996.

Speaker, Patient Services Break-Out Session, Summit II, Maryland Division, Inc., American Cancer Society, January 27, 1996.

"Nursing: So what's to laugh about?" Maryland League for Nursing, November 16, 1995.


"Laughter is the best medicine," Third Annual Family Caregivers Conference, Family & Children's Services of Central Maryland, Baltimore, October 6, 1995.


Speaker, Oncology Nursing Core Review Course, UMCC/GBMC/UMAB SON, Baltimore, August 26, 1995.


Speaker, Volunteer Retreat, Senior Companion Program, Baltimore City Health Department, June 22 1995.

"Laughter as therapy," Social Workers' Meeting, Springfield Hospital Center, Sykesville, MD, June 7, 1995.


"Coping with the challenges of nursing through humor," Nurses' Day Celebration, Anne Arundel Medical Center, Annapolis, MD, May 11, 1995.

"Laughter as therapy," Nurses Week Professional Day, Fallston General Hospital, Fallston, MD, May 9, 1995

"Humor as therapy," Nurses Day Celebration, Springfield Hospital Center, Sykesville, MD, May 8, 1995

"Being a nurse in the 90's & coping through humor," "Caregiving utilizing humor," Seventh Annual Distinguished Nurse Lectureship, Department of Nursing, Franklin Square Hospital Center, May 4, 1995

"Message to caregivers: The healing power of humor," Children and Hospitals Week, Johns Hopkins Hospital, Baltimore, MD, March 21, 1995

"Humor in oncology nursing," Potomac Chapter Oncology Nursing Society, Wheaton, MD, March 14, 1995

"Laugh your way to health," Occupational Health Services, Johns Hopkins University, Baltimore, MD, February 2, 1995.


"Humor in nursing," Nurse Day Celebration, Physicians Memorial Hospital, LaPlata, MD, May 17, 1994.


"Humor in nursing - So what's to laugh about?" Union Memorial Hospital Nursing Symposium, Baltimore, MD, February 26, 1994.


"Humor as a coping strategy," Glenwood Health Center, October 8, 1993.


"Using humor to cope with the challenges of caregiving," First Annual Alleghany County Alzheimer's Care
Conference, Cumberland, MD, June 18, 1993.


"Lighten up," St. Mary's Hospital, Leonardtown, MD, May 5, 1993.

"Humor in the work place for nurses," Sinai Hospital, Baltimore, MD, May 5, 1993.


"Coping," Second Annual Nursing Student Oncology Conference, Baltimore, MD, April 21, 1993.


"Identifying and applying coping strategies," Coping Strategies for the Cancer Patient and Caregiver, Chesapeake Potomac Area Office, Maryland Division, American Cancer Society, Greenbelt, MD, March 9, 1993.

Speaker, Breast Disease Support Group, St. Joseph Hospital, February 18, 1993.

"Laughter rx: A daily dose," Holy Cross Hospital, Silver Spring, MD, February 4, 1993.


"Coping with cancer," Oncology Nursing Core Review Course, University of Maryland Cancer Center, Baltimore, MD, September 13, 1992.

"Stress management through humor," Maryland Hospital Association Recruiters' Meeting, Baltimore, MD, August 6, 1992.


Speaker on "Laughter as therapy," I Can Cope Program, St. Agnes Hospital, Baltimore, MD, April 1, 1992; April 20, 1993; October 20, 1993.


"Humor as a coping mechanism," Upper Shore Post-Mastectomy Group, Maryland Division, American Cancer Society, Easton, MD, November 2, 1991.

"Hypercalcemia: Symptoms and treatment," Howard University Hospital Cancer Center, Washington, DC, October 24, 1991.


"Laughter as therapy," Nursing Grand Rounds, Franklin Square Hospital Center, Baltimore, MD, April 25, 1991.

"Laughter as therapy," Cancer and Pain Management, Anne Arundel County Unit, Maryland Division, American Cancer Society, Annapolis, MD, April 24, 1991.

The common language of nursing and medicine," Colleagues in Care, Greater Baltimore Medical Center, Baltimore, MD, April 23, 1991.

"Laughter as therapy," We Care Weekend, American Cancer Society, Maryland Division, Port Deposit, MD, April 20, 1991.

"Using humor and laughter to maximize survivorship," Baptist Medical Center-Montclair Survivors' Celebration, Birmingham, AL, April 13, 1991.

"Laughter as therapy," Post-Mastectomy Group Meeting, Maryland Division, American Cancer Society, Salisbury, MD, April 5, 1991.


"Issues and trends: Oncology Nursing in the 90's," Twenty-second Nurses Seminar, Montgomery County Unit, Maryland Division, American Cancer Society, Chevy Chase, MD, March 20, 1991.


"Laughter as therapy," The Homewood Hospital Center Nursing Department, Baltimore, MD, December 11, 1990.

"Humor in oncology," Radiation Oncology Grand Rounds, University of Maryland Cancer Center, November 7, 1990.

"Humor as a therapeutic tool," The Art of Caregiving: Health, Humor, and Helping, American Cancer Society,
Maryland Division, Baltimore, MD, October 26, 1990.

"The role of spirituality and humor in the care of persons with cancer," Fall dinner meeting, Sigma Theta Tau, Pi Chapter, Columbia, MD, October 23, 1990.


"Laughter as therapy," Anne Arundel Medical Center Cancer Support Group, Annapolis, MD, February, 1990.


"Hypercalcemia", Oncologic Emergencies Conference, University of Maryland Cancer Center Department of Nursing, Baltimore, MD, October 20, 1989.


**EDITORIAL ACTIVITIES:**

**Editorial board memberships**

2001 - present  Member, Editorial Board, *Hematology Oncology News and Issues*.

1999  Reviewer, AACN *Clinical Issues Advanced Practice in Acute and Critical Care*.


1990 – present  MediaReviewer, *Oncology Nursing Forum*. 

1992-1998  Reviewer

Peer review activities

2000 -  Member, Screening Committee, Trish Greene Quality of Life Cancer Practice Award

1998 to 2000  Member, Clinical Research Committee, Greenebaum Cancer Center, University of Maryland Medical System

1998, 1999, 2000  Abstract reviewer, American Cancer Society Institutional Research Grant program, Greenebaum Cancer Center, University of Maryland Medical System, Baltimore, MD

1996, 1997  Abstract reviewer, Symposium on Advanced Wound Care

1995  Abstract reviewer, American Nurses Association Council for Nursing Research

1993, 1994  Member, Ad Hoc Special Review Committee Panel, Community Clinical Oncology Program, National Cancer Institute, Rockville, MD

1988, 1999  Peer Reviewer for Advanced Nurse Education Program Grants

PROFESSIONAL ACTIVITIES:

American Academy of Nursing (1996- )

American Nurses Association
Maryland Nurses Association, District 2

National League for Nursing
Maryland League for Nursing
Accreditation Visitor, Council of Baccalaureate and Higher Degree Programs 1988-1998

Oncology Nursing Society: National
Member, Research Committee (1980-1982)
Member, Education Committee (1982-1985)
  Chairperson (1984-1985)
Member, Special Committee on Certification (1983)
Chair, Core Curriculum Committee (1984)
Member, Oncology Nursing Foundation Scholarship Review Committee (1987-1996)
Member, Special Interest Group on Spiritual Care (1991- )
Member, State of the Art of Advanced Practice in Oncology Nursing Invitational Conference (1994)
Awards committee member, ONS/Chiron Susan Baird Writing Award for a Research Paper (1997)
Member, Nominating Committee (1998-2001)
  Chair (2000-2001)

Oncology Nursing Society: Chapter
Chairperson, Bylaws Committee, Central Alabama Chapter (1982-1983)
President, Central Alabama Chapter (1983-1985)
Member, New York City Chapter (1986-1988)
Member, Greater Baltimore Chapter (1988-Present)

Association for Applied and Therapeutic Humor
Donna L. Leach  
Ed.D., MT(ASCP)DLM

132 Saura View Dr.  
King, NC 27021  
336-750-2513  
Associate Professor  
Winston-Salem State University  
leachd@wssu.edu

Education:
Post-Doc Fellow  
Johns Hopkins University (2003-2005)

Ed.D.  

Master of Science  
Major- Management, Troy State University: European Division (1986)

Bachelor of Science  
Major- Medical Technology, Rhode Island College (1980)

Bachelor of Arts  
Major- Chemistry, Rhode Island College (1980)

Experience:
May 1998- present  
Department Chair, Clinical Laboratory Science Department, Winston-Salem State University. Duties the same as Interim Department Chair listed below. Promoted to Associate Professor April 1999.

April 1992 - present  
Captain, Air Force Reserve. Medical Service Corps (Healthcare Administration). Attached to 43rd Medical Group at Pope AFB, NC. Worked in Resource Management (Finance) /Information Systems Office helping to manage $3 million budget for clinic, prepare for and attend JCAHO & HSI inspections (passed JCAHO with commendation and 5 best practices identified), coordinate with base finance office for spending Money and evaluating outstanding debts, prepare quarterly Management summary reports and presentations for the Executive Committee, and prepare short-suspense projects. Assisted CIO with software updates, troubleshooting and software training. Also created two web pages for the intranet: 1. Recurrent retraining page with post-exams that are submitted to training monitor’s e-mail address, 2. Medical Readiness page with post-exams submitted to NCOIC Medical Readiness e-mail account. Activated for 20 July 1998 through 7 August 1998 to fill in for lab officer and guide laboratory through a CAP inspection on 6 August 1998. Passed CAP inspection with only 2 Phase II

Aug 1997-May 1998 \textbf{Interim Department Chair}, Clinical Laboratory Science Department, Winston-Salem State University. Taught Introduction to Clinical Laboratory Science, Management and Education, Introduction to Research, Methods and Procedures, Clinical Chemistry, scheduled department classes, managed budget, hired new faculty members, established one of the first Internet-based MLT to MT articulation programs in the US, served on numerous university, department, and school committees established new clinical sites, coordinated clinical sites for senior students, graded senior students in clinical rotations, evaluated transfer student transcripts, advised students, interacted with senior university administrators, established and upgraded curriculum, managed department supplies and inventory, maintained accreditation standards (both NAACLS and SACS), successfully passed reaccreditation with NAACLS (granted 5 yrs accreditation), developed several web-based courses, and acted as a community liaison.

Aug 1994-Aug 1997 Assistant Professor in Clinical Laboratory Science Department, Winston-Salem State University. Taught Clinical Instrumentation, Clinical Chemistry, Clinical Chemistry Practicum, and Biochemistry. Team taught Methods and Procedures and Seminar. Also advised and registered students, participated in the Faculty Senate and served on various university and department committees.

Nov 1990-Aug 1994 Rotating medical technologist at Plains Regional Medical Center, Portales, New Mexico. Performed routine and STAT diagnostic laboratory tests in Serology, Blood Bank, Hematology, Urinalysis, Clinical Chemistry, Special Chemistry (including arterial blood gases), and Microbiology. Also collected venous and arterial blood specimens for analysis. Rotated weekends and pulled call.

Feb 1987-Oct 1990 Supervisory medical technologist in Blood Bank and Microbiology at the 509th Strategic Hospital at Pease AFB, New Hampshire. Wrote procedures for all Blood Bank and Microbiology tests, ordered supplies, trained personnel, provided in-service lectures for all laboratory technicians, recommended new tests for the laboratory, interacted with medical device company representatives, sales representative, and technical service personnel, computerized most paperwork in Microbiology section, and was trained as primary operator of the Beckman Fox bacterial
MIC/ID system. Also acted as laboratory liaison for physicians, and interacted with other personnel regularly.


April 1983-May 1986 Microbiology supervisor and Chemistry technician at the USAF Hospital, RAF Lakenheath, United Kingdom. Performed routine and STAT diagnostic tests in Chemistry and Microbiology. Also performed supervisory duties--i.e. ordering supplies, writing technical procedures, evaluating and counseling technicians, interacting with other hospital personnel including physicians, nurses, and administrators, and responsible for all work in section.


**Continuing Education Seminars Attended:**
1982 ARC "Wet" Workshop, Hanover, New Hampshire
1987 AABB Annual Conference--Orlando, Fl
1988 Beckman Fox system training seminar
1988 Roche Septi-Check blood culture seminar--Nashua, New Hampshire
1989 ASCP Spring Conference--Chicago, Il
1989 Kallestad Sexually Transmitted Disease workshop--Hartford, Connecticut
1991 Antibiotic Update In-service, Dr. Robert Timmons, Roosevelt General Hospital, Portales, New Mexico
1992 Community Microbiology workshop--Albuquerque, New Mexico
1993 New Mexico State Society for Clinical Laboratory Science Annual Conference--Albuquerque, New Mexico
1994 NCSCLS Fall Meeting, Greensboro, NC
1995 NCSCLS Educators' Scientific Assembly meeting--Brown Summitt, NC
1995 AHEC workshop- Hematology case studies--Winston-Salem, NC
1996 Clinical Laboratory Educators' Conference--Atlanta, Ga.
1996 NCSCLS Fall meeting--Hickory, NC
1996  ASCP Point-of-Care audioconference--Winston-Salem, NC
1996  Triad Healthcare Executive Forum--Merger of Moses Cone and Wesley Long
       Hospitals--High Point, NC
1997  American College of Healthcare Executives Congress on Healthcare Management--
       Chicago, Il.
1997  ASCLS Legislative Day--Washington, DC
1997  WSSU strategic planning retreat--Brown Summit, NC
1997  NCSCLS Fall Meeting--Boone, NC
1998  Healthcare Information Management Systems Society annual meeting--Orlando, Fl
1998  Clinical Laboratory Educators' Conference-Minneapolis, Minn.
1998  Clinical Connections (Joint North Carolina and South Carolina state meeting)--
       Charlotte, NC
1998  Triad Healthcare Executive Forum--Novant Health (mergers and acquisitions)--
       Greensboro, NC
1998  NCSCLS leadership retreat--Brown Summit, NC
1999  Clinical Laboratory Educators' Conference, San Juan, Puerto Rico
1999  Clinical Connections (Joint North Carolina and South Carolina state meeting)--
       Charleston, SC
1999  ASCLS National Meeting, New Orleans, Louisiana
1999  NCSCLS Fall Education Meeting, Greensboro, NC
2000  Clinical Laboratory Educators' Conference, Salt Lake City, Utah
2000  UNC System Consortium for Distance Education, Wrightsville Beach, NC
2000  Carolinas Clinical Connections, Asheville, NC
2000  ASCLS National Meeting, San Francisco, Ca
2001  Clinical Laboratory Educators' Conference, St. Louis, Mo.
2001  American Medical Technologists Meeting, Nassau, Bahamas
2001  UNC System Consortium for Distance Education, Eastern Carolina University,
       Greenville, NC
2002  Clinical Laboratory Educators' Conference, Honolulu, Hawaii
2002  EdTech2002, UNC System Distance Education Consortium Meeting, Raleigh, NC
2003  The 14th Annual International Conference on College Teaching and Learning,
       Jacksonville, Fla.
2003  Cancer Prevention in Underrepresented Minorities: How Do We Make It Work?
       Maya Angelou Research Center on Minority Health. Wake Forest School of
       Medicine. Winston-Salem, NC.
2003  International Breast Cancer Conference, Banff Springs, Calgary, Canada.

Professional Organization Membership:
American Society for Clinical Laboratory Science (Clinical Laboratory Science Peer
       Reviewer 1996 - present)
ASCP Board of Registry (Laboratory Medicine Peer Reviewer 1995 - present)
North Carolina Society for Clinical Laboratory Science (Board of Directors 1997 - 1999,
       Secretary 1999)
American College of Healthcare Executives
Association of Military Surgeons of the United States (*Military Medicine*, Peer Reviewer 1997 - present)
Reserve Officers Association (North Carolina State Junior Vice President (1998), North Carolina State President (1999) and webmaster)
People to People Citizen Ambassadors

**Awards:**
1995 Air Force Commendation Medal
1998 NCCLS Omicron Sigma
1998 ASCLS Omicron Sigma
1998 Air Force Achievement Medal
1999 NCCLS Omicron Sigma
Nominated for the 2000 WSSU Wilveria Atkinson Research Award
2001 School of Health Sciences Spirit Award for Creative Leadership
2002 School of Health Sciences Spirit Award for Leadership in Alternative Teaching Methods
2002 Air Force Commendation Medal
2003 School of Health Sciences Spirit Award

**Publications and Presentations:**
Leach, D. 1996. The Structure of Knowledge of Clinical Laboratory Science. Texas Tech University. (Dissertation)


Ryman, D., Leach, D., and Canzona, C., "Interpretive Skills of Senior Nursing Students", *Clinical Laboratory Science*, March/April 1999.
Leach, D. and Ryman, D., "Innovative Ways to Increase Student Credit Hour Production", *ASCLS Today*, May 1999.


Ryman, D. and Leach, D., "Web-Based CLS Program Expands Opportunities to Earn Degree", *Advance for Medical Laboratory Professionals*, vol 12, # 5, July 31, 2000, pp. 22-23

Ryman D. and Leach, D., "CLS Faculty and Student Community Service," *ASCLS Today*, January 2001, pp. 12-13

Ryman, D. and Leach, D. "Winston-Salem State University CLS Internet Program", *Piedmont Triad Research and Technology Connectivity Expo 2001 Monograph*, April 2001, p. 32


Leach, D., and Ryman, D., "Outline Review of Medical Technology/Clinical Laboratory Science" (Book and CD), Prentice Hall, June 2003.

Presentations:
The Structure of Knowledge of Clinical Laboratory Science and Patient Satisfaction at a Military Treatment Facility. Poster presentations at Texas Tech's Women in Higher Education seminar, 1994, Lubbock, Texas


Continuous Quality Improvement Techniques for Clinical Laboratory Science Education. Poster presentation at the national Clinical Laboratory Educators' Conference, 1996, Atlanta, Ga.

Using Military Treatment Facilities as Clinical Affiliates. Poster presentation at the national Clinical Laboratory Educators' Conference, 1998, Minneapolis, Minn.


Microbiology: Techniques and Case Studies. Roundtable at 1999 CLEC. March 6, 1999. San Juan, Puerto Rico

Interpretive Skills of Senior Nursing Students. Poster Presentation at 1999 CLEC, March 5, 1999, San Juan, Puerto Rico


Distance Education--A Faculty Perspective, workshop presented at the 2000 UNC System Consortium for Distance Education, Mar 10, 2000.

Distance Education, Workshop presentation at the 2000 Clinical Connections, April 7, 2000, Asheville, NC.

Putting a Course on the Web, NCSCLS/NCSSAMT joint Fall Meeting, Oct. 7, 2000, Winston-Salem State University
Using Blackboard for Web-Based Courses, inservice to School of Health Sciences faculty, Oct. 9 and Nov. 6, 2000, Winston-Salem State University.

Developing A Web-Based CLS Program: A Case Study, 2001 Clinical Laboratory Educators' Conference, March 2001, St. Louis, Mo.

Bioterrorism. WSSU Faculty Seminar Luncheon Series. Office of Sponsored Programs, Division of Academic Affairs, WSSU, Winston-Salem, NC


**University Committees:**

Faculty Evaluation Committee- 1994-1995
Peer Evaluation of Teaching Subcommittee (chair)- 1994
Student Evaluation of Teaching Subcommittee- 1995
Health Sciences Pinning Ceremony Committee- 1996
Faculty Senate Secretary- 1996-1997
Faculty Senate Strategic Planning Subcommittee (chair)- 1996-1997
General Assessment Committee 1994-1998
General Assessment Instrument Subcommittee (chair)- 1997
Strategic Planning Technology Task Force (chair) 1997
Strategic Planning Operational Effectiveness and Infrastructure Coalition- 1997
WSSU Summer School Committee- 1997- present
Computer Users' Group (chair) 1998- present
Southern Association of Colleges and Schools Educational Institutional Effectiveness Committee (chair)- 1998- 2000

Southern Association of Colleges and Schools Steering Committee- 1998-2000
Steering Committee for the Nurse-Managed Care Center- 1997-present
Academic Standards Committee 1997-present
Ad Hoc Committee on Academic Quality Control- 1998
Physical Education Department Faculty Search Committee (2 committees)- 1998
Health Sciences Division Technology Task Force (chair) 1997- 2001
Health Sciences Social Committee 1998-2000
Health Sciences Division New Building Design Committee- 1998
Information Technology Planning Committee- 1998-present
Technology Liaisons Group - 1998-present
Clinical Laboratory Science Faculty Search Committee- 1999
Summer School Committee--1998-present
Distance Education Committee--1999
Bertha Shelton Endowed Chair for Nursing Search Committee-2000
SACS Web Page Committee-2000
Articulation Agreement Committee-2000
University Planning Council- 2000 - present
Search Committee for School of Health Sciences Dean-2000
Search Committee for Vice Chancellor of Enrollment Management-2000
University Catalog Committee- 2001
Search Committee for Microbiology Faculty Member- 2001
Proposal Review Committee- 1999-present
Evening and Weekend College Advisory Committee- 2001
Continuing Education Advisory Committee-2001
Academic Standards and Curriculum Committee- 1997 – present
Associate Dean for School of Health Sciences Search Committee (chair)- 2002
Associate Vice Chancellor for Continuing and Lifelong Learning - 2002
Distance Education Working Group- 2002
Intercollegiate Athletic Committee- 2003

Professional Activities:

Accreditation Site Visitor: Tarleton State University, February 1998
Accreditation Site Visitor: Medical University of South Carolina: February 1999.
Accreditation Site Visit Team Leader: Norfolk State University, March 2000
Accreditation Site Visit Team Leader: The University of West Florida, Feb 2001

Granted state approval to plan and implement an internet delivered CLS program.

Program Committee Co-Chair for the 1996 NCSCLS and SCSCLS Bi-State Spring Meeting (North Carolina and South Carolina chapters of ASCLS)

Planning Committee Member for the 2000 fall meeting of the North Carolina Chapter of ASCLS

Member of the North Carolina HBC group of faculty/student trip to Moscow, Russia in June 2000.

Article written in the Winston-Salem Chronicle (11/9/00) by the Chronicle staff describing my cover story published in Medical Laboratory Observer.
Article written in the Ram Pages by WSSU Public Relations Office describing my cover story published in the Medical Laboratory Observer.

Co-developer of the nation’s first internet undergraduate degree program in clinical laboratory science.

Book reviewer for General Microbiology book by Mosby. 2000

Book reviewer for Bailey and Scott’s Diagnostic Microbiology book by Mosby. 2001

Book reviewer for Mahon’s Textbook of Diagnostic Microbiology published by Saunders. 2002

Book reviewer for CLS Review Guide (Microbiology and General Laboratory Techniques chapters), Elseiver Science, St. Louis, Mo. 2003

Book reviewer for Markell and Voge’s Medical Parasitology textbook, 8th edition, Elseiver Science, St. Louis, Mo. 2003

Grants:

1999: Health Resources and Services Administration. "Web-Based Clinical Laboratory Science Degree for Rural Laboratory Professionals." Not approved.

1999 (June) U.S. Health Resources and Services Administration Bureau of Primary Care, Health Schools, Healthy Communities Grant Reviewer

2002 Health Resources and Services Administration: Scholarships for Disadvantaged Students, $165,000.

2003 Developing a training program in breast cancer research to decrease the disparity of morbidity and mortality in underserved/minority women. U.S. Army Medical Research and Material Command’s Office of the Congressionally Directed Medical Research Programs (CDMRP). Funded at $998,658 (Post-doctorate Student- John Hopkins University)

2003 Health Resources and Services Administration: Scholarships for Disadvantaged Students, $270,000.

2003 Determining Physicians’ use of Tumor Markers in Breast Cancer Diagnosis and Treatment, PACRE grant, $25,000, being reviewed.
Professional Committees:
North Carolina Clinical Laboratory Advisory Committee (1997- present)
Carolinas Clinical Connections (State Meeting) Program Committee Co-Chair 1998
NAACLS' site visitor (Jan 1998, Feb 1999)
NAACLS' site visit team leader (March 2000, October 2000)
NAACLS paper reviewer (Nov 1998)
NCSCLS webmaster (1998-2000)
NCSCLS student forum advisor (1998-1999)
NCSCLS Board of Directors (1996-1998)
NCSCLS secretary (1999-2000)
NCSCLS Education Scientific Assembly chair (1998-2000)
ASCLS Leadership Development Committee (1998-2002)
Clinical Laboratory Educators' Conference Program Co-Chair (1999)
Reserve Officers Association State Department of North Carolina president-1999
Reserve Officers Association National Health Services Committee-1999
Reserve Officers Association Chapter Development Committee-1999
Reserve Officers Association Junior Officers Committee-1999
Reserve Officers Association State Department of North Carolina Air Force Junior Vice President (1998, 2000)
Reserve Officers Association National Strategic Planning Committee (2000-2002)
Employer Support of the Guard and Reserve (ESGR) - Dec 1999 – present
ASCLS Education Scientific Assembly Kendall Award Committee-2000-present
Dr. Patricia Bowyer, OTR/L, BCN  
811 West Fourth Street  
Winston-Salem, North Carolina 27101  
(336) 327-8023

PROFESSIONAL EXPERIENCE

Wake Forest University Baptist Medical Center  
Winston-Salem, North Carolina  
STAFF OCCUPATIONAL THERAPIST  
February 2002 to Present

RESPONSIBLE FOR PRN COVERAGE IN ACUTE CARE. PRIMARILY WITH THE NEUROLOGICALLY IMPAIRED.

Winston-Salem State University  
Winston-Salem, North Carolina  
ASSISTANT PROFESSOR  
June 2001 to Present

RESPONSIBLE FOR INSTRUCTING THE FOLLOWING COURSES: KINESIOLOGY, NEUROSCIENCE FOR OT, AND INTRODUCTION TO OT. ORGANIZE AND DEVELOP THE RECRUITMENT PROCESS FOR OCCUPATIONAL THERAPY GRADUATE AND UNDERGRADUATE STUDENTS INCLUDING MARKETING MATERIALS. COORDINATED THESE EFFORTS WITH THE ENROLLMENT MANAGEMENT DEPARTMENT. CO-CHAIR OF THE UNDERGRADUATE OT ADMISSIONS COMMITTEE, MASTERS CURRICULUM COMMITTEE AND CHAIR OF THE RECRUITMENT COMMITTEE. CONDUCTED RESEARCH IN THE AREA OF NEUROLOGICAL IMPAIRMENT.

Milligan College  
Milligan College, Tennessee  
ASSISTANT PROFESSOR/ ADMISSIONS COORDINATOR  
August 1998 to May 2001

RESPONSIBLE FOR DEVELOPMENT AND ORGANIZATION OF THE ADMISSIONS PROCESS FOR OCCUPATIONAL THERAPY GRADUATE STUDENTS INCLUDING RECRUITMENT, ADVISING, INTERVIEWS AND MARKETING MATERIALS. INSTRUCTOR FOR THE FOLLOWING COURSES: KINESIOLOGY, PHYSICAL DYSFUNCTION (ADULT POPULATION - CO-INSTRUCTOR), ACTIVITIES OF DAILY LIVING AND PROFESSIONAL WRITING IN OT. CHAIR OF THE OT ADMISSIONS COMMITTEE AND OT GRADUATE STUDENT SPECIAL PROJECT GROUPS AND THESSES. COORDINATOR OF CONTINUING EDUCATION COURSES WITHIN THE REALM OF OCCUPATIONAL THERAPY AND IN DEVELOPMENT OF NONTRADITIONAL FIELDWORK SITES. BECAME BOARD CERTIFIED IN NEUROREHABILITATION IN DECEMBER 1999.

Housecall Home Health Agency  
Johnson City, Tennessee  
COORDINATOR OF OCCUPATIONAL THERAPY  
July 1997 to February 2001

RESPONSIBLE FOR SUPERVISION OF COTAS AND EVALUATION OF CLIENTS IN A SCHOOL SETTING AND HOME SETTING. POPULATIONS RANGE FROM PEDIATRIC CLIENTS TO THE ELDERLY. DEVELOPED THE OCCUPATIONAL THERAPY PROGRAM FOR THE AGENCY AFTER BEING THE FIRST OCCUPATIONAL THERAPIST HIRED. THE AGENCY NOW HAS A STAFF OF 4 OTRS AND 5 COTAS.
Northeast Tennessee Rehabilitation Hospital
Johnson City, Tennessee
DIRECTOR OF OCCUPATIONAL THERAPY SERVICES
August 1995 to May 1998

RESPONSIBLE FOR SUPERVISION OF STAFF OTRS, COTAS, STUDENTS, REHAB TECHNICIANS
AND VOLUNTEERS. ADDITIONAL DUTIES INCLUDE DEVELOPMENT OF NEW PROGRAMS FOR
CVA AND ORTHOPEDIC CLIENTS AND PATIENT TREATMENT. MAINTAINED A BUDGET AND
ASSISTED IN DEVELOPING INTERDISCIPLINARY TREATMENT SYSTEMS. BECAME NDT
CERTIFIED WHILE AT FACILITY.

Johnson City Medical Center
Johnson City, Tennessee
OUTPATIENT PEDIATRIC OCCUPATIONAL THERAPIST
August 1994 to August 1995

RESPONSIBLE FOR THE DEVELOPMENT OF PEDIATRIC PROGRAM WHILE MAINTAINING A FULL
CASELOAD. ASSISTED IN PRN COVERAGE FOR THE FACILITIES REHAB FLOOR, SNF UNIT AND
ACUTE CARE. DESIGNED THE OUTPATIENT FIELDWORK PROGRAM AND SUPERVISED
STUDENTS DURING THEIR CLINICAL ROTATIONS.

Northeast Tennessee Rehabilitation Hospital
Johnson City, Tennessee
STAFF OCCUPATIONAL THERAPIST
August 1993 to August 1994

RESPONSIBLE FOR THE EVALUATION AND TREATMENT OF CLIENTS WITH TBI/CVA.
DEVELOPED AND SUPERVISED THE VOLUNTEER PROGRAM. PARTICIPATED IN THE AQUATIC
THERAPY PROGRAM FOR TBIC LIENTS.

EDUCATION

Johns Hopkins University
Baltimore, Maryland
post-doctoral research
2002 to present

East Tennessee State University
Johnson City, Tennessee
doctorate in educational leadership
1997 to 2001

Eastern Kentucky University
Richmond, Kentucky
master of science in occupational
therapy
1993 to 1996

Milligan College
Milligan College, Tennessee
bachelor of arts in communications
1983 to 1987
ORGANIZATIONS

Kentucky Occupational Therapy Association
Richmond, Kentucky
member

Sensory Integration International
California
member

Neurodevelopmental Treatment Association
California
member

Tennessee Occupational Therapy Association
Nashville, Tennessee
2000 State Conference Proposal Reviewer
1999 State Conference Proposal Reviewer
1998 State Conference Chair
State Placement Chair
Representative Assembly member for the State of Tennessee
District Chair and newsletter editor

North Carolina Occupational Therapy Association
Raleigh, North Carolina

member
2002 Awards Committee Member

American Occupational Therapy Association
Washington, D.C.
Recorder for the Representative Assembly
Abstract Reviewer for National Conference
Chair, Ad Hoc Committee on Electronic Communication
Member, Bylaws, Policies and Procedures Committee
Member, Task Force on Governance Effectiveness
OT Practice Content Expert

National Board for Certification of Occupational Therapist
Rockville, Maryland

Item Writer for National Certification Exam

Rockville, Maryland
2003 to 2004

National Certification Exam Rubric Review Committee
AWARDS

Theta Pi Honor Society
Johnson City, Tennessee
invited member

Kappa Delta Pi Honor Society
Indianapolis, Indiana
invited member

Gamma Beta Phi Honor Society
Oak Ridge, Tennessee
invited member

Phi Kappa Phi Honor Society
Baton Rouge, Louisiana
invited member

PROFESSIONAL CERTIFICATION

OCCUPATIONAL THERAPY BOARD CERTIFIED NEUROREHABILITATION (BCN)  1999

Neurodevelopmental Treatment Certified  1997

PRESENTATIONS


