

MEMORANDUM

TO: Bret Danilowicz, Provost
Academic Affairs

FROM: Safiya George, Dean
College of Nursing

DATE: July 13, 2020

SUBJECT: Recommendation for Emeritus Status for Dr. Patricia Liehr

Personal Research and Scholarship

Since starting at FAU in 2004, Dr. Patricia Liehr has made an effort to continue to advance her program of scholarship through research and through theory development/use, while also serving in administrative roles. She has been a Co-investigator on studies of the use of mindfulness with those who abuse substances and the use of a talking circle intervention to support substance use prevention for Native-American youth. As the PI, co-PI or co-Investigator on a series of NIH-funded studies, she has successfully led research team activities to accomplish tasks such as design of community based action research; qualitative and quantitative analysis of data; implementation of behavioral interventions and measurement of physiological indicators. These have been cross-discipline studies with ethnically diverse samples, across a range of ages. During most of her time at FAU, she has studied older adults with chronic disease and those who have suffered wartime traumas. In 2016, she assumed Co-PI responsibility for the NIH-funded chair yoga study of older adults with osteoarthritis. She assured exemplary completion, including dissemination of research findings through publication. There are two publications on her resume documenting outcomes from this study.

In the last decade, her program of research has integrated the arts with narrative research findings. She has referred to this process as a “Field to Forum” approach. Using research findings from the field where Pearl Harbor and Hiroshima survivors were studied, she led a multidisciplinary team to create and share a documentary theatre performance, “With Their Voices Raised” (VOICES) conceptualized as the forum. The VOICES forum has been shared with audiences in the United States and Japan and has included high school students from both countries. The data from focus groups with youth actors following their performance of VOICES was re-submitted in July 2020 to the *Journal of Holistic Nursing*. Dr. Andra Opalinski has adopted the field-to-forum approach in her work with people who are homeless, culminating in an exhibition sponsored by the National Academy of Medicine entitled Visualizing Health Equity.



The field-to-forum approach begins with the foundation of Story theory, a middle range theory created by Dr. Mary Jane Smith and Dr. Liehr in 1999. Her Story theory expertise persists as a strong thread in her scholarship and she has multiple publications on her CV that are related to this area of scholarship. In addition, Dr. Mary Jane Smith and Dr. Liehr have published four editions of the textbook, *Middle Range Theory for Nursing*, which established the connection between theory-research and theory-practice for students in graduate education courses. Three of the four editions received the *American Journal of Nursing (AJN)* first place book of the year award in the category of research.

Dr. Opalinski and Dr. Liehr recently published a blog on the *Nursology* website that addressed the theory-practice connection through the lens of COVID-19. Regarding practice, Story theory has a central place in the coaching paradigm proposed by Dr. Barbara Dossey. Dossey and colleagues use the theory to teach story-gathering and analysis. Their holistic approach to engagement to enable lifestyle change affirms the importance of Story theory which is centrally placed in their structure for guidance.

National/international recognition for impact of research

Dr. Liehr's theoretical work is recognized in the United States and abroad for its potential to guide research. She has had an ongoing connection with international colleagues documented with publications. Often, her research direction with international colleagues has been guided by Story theory. In October, 2017, she was invited by the National University of Columbia to serve as a keynote speaker and consultant regarding the use of theory for research. For decades before this collaboration, she served as a visiting nursing scholar to the Tokyo Metropolitan Institute of Gerontology (TMIG) and also, to Peking Union Medical College. The work with TMIG spanned two decades and it exemplifies productive interdisciplinary research collaboration. There are multiple manuscripts on her CV that document this relationship with her primary Japanese collaborator, Dr. Ryutaro Takahashi.

Teaching

Dr. Liehr takes great pride in mentoring students to grow as scholars and this calls for effort inside and outside the classroom. Every doctoral student for whom she served as dissertation chair has had at least one manuscript submitted prior to graduation. During her time at FAU, she mentored 13 students to graduation as dissertation chair and served on countless committees where she provided content guidance and/or mentored junior faculty to serve as dissertation chairs. For all of her years at FAU, she taught the use of nursing theory to guide research (NGR7121). Most recently, she mentored Dr. Longo to proceed with teaching this content.

While teaching the Honors courses, she had a unique opportunity to introduce undergraduate students to research excitement. Dr. Liehr has mentored three Honors students herself and she has consistently worked with these undergraduate students to assure that student-faculty research has



the potential to grow scholarship for the student and the faculty member. Several Honors students, with her guidance and that of their faculty mentor, received support for scholarship through the Office of Undergraduate Research and Inquiry. One of her Honors students represented the College as a Sigma Theta Tau Rising Star and one was accepted to a competitive research summer internship at UCLA between her junior and senior year at FAU.

To summarize, she taught research/theory courses to both undergraduate and PhD students. This is a privilege that calls her to make complex topics very manageable. She embraces this privilege with commitment to make a difference for students, regardless of their education level.

Service

An example of ongoing community service is facilitation and leadership of the Stroll for Well-Being, a program offered by the Morikami Museum and Japanese Gardens that has reached more than 1000 residents of South Florida to promote a sense of ease generated by garden walking. There are multiple manuscripts on Dr. Liehr's CV documenting the study of the effect of walking-in-nature on well-being. She has introduced students and international visitors to her work at the Morikami Museum. At this time, she is the lead facilitator of the Stroll for Well-Being project and she continues to study outcomes related to this nature-connection experience.

One example of her ongoing effort to advance the reputation and mission of the College occurs by engagement with one of our donors, Dr. Elizabeth Force. This engagement began in 2005 and she still meets with Dr. Force to forge new directions that are meaningful for her and for the college. In 2015, she was able to work with a group of undergraduate students in the Evidence-based Practice course to meet Dr. Force's request for literature about continuing care communities and best treatment approaches for dementia as well as Parkinson's disease. During the last several months of COVID-19 social distancing, she has continued to call Dr. Force to check-in and let her know that they care about her. This one example highlights ongoing caring engagement to promote connection with a valued community member/donor.

Administrative Responsibilities

Associate Dean for Nursing Research and Scholarship

Dr. Liehr was hired in 2004 as the first Research Dean at the College of Nursing and she immediately began setting up the support services that faculty need to be successful with scholarly activities including extramural grant submission. We are also grateful for the generosity of Christine E. Lynn, who also originated an intramural grant program for faculty. For 10 years until 2014, Dr. Liehr remained in the Associate Dean for Research (ADR) role. During that time, she was consistently grant funded as a co-investigator on NIH funding from the University of Texas and FAU (see CV). In addition to her own grant activity, she mentored and supported faculty members to achieve their goals of promotion and tenure within the umbrella of caring-based integrative



health. For instance, she organized supportive activities to develop faculty skills associated with writing for publication and developing grant proposals. In 2014, Dr. Liehr stepped away from the ADR role. At that time, she moved into a faculty position and the following lists of achievements were recorded in her transition PowerPoint presentation to faculty.

- **We know where we stand in funding** (\$3.5 million, half was NIH funding);
- **We have an infrastructure that is a model for the University;**
- **We have actively organized to mentor new faculty and support senior faculty;**
- **We strengthened our competitive edge by hiring Dr. David Newman to support our “methods and analysis” work** – at this point the office included a financial expert, and a grants coordinator who facilitated all dimensions of the submission process.
- **We have begun the process of recognizing our areas of expertise so that we can cultivate research in each area** – in retrospect, this has not worked as well as we hoped and it demands consideration in the years to come with particular attention to align with the University pillars.
- **We are poised to move into the next decade with a new research leader who can take us to the next level of research/scholarly development.**

In 2018, Dr. Liehr was asked to resume ADR activities when the then ADR, Dr. Linda Weglicki, left the position. What she noticed in assessing our funding situation when she returned was that we had increased our funding to approximately \$4.6 million but 75% of the funding was for programs/services grants (mostly from HRSA). While this is an important resource for the college, it is not research and it does not have full indirects. So, Dr. Liehr set a goal to balance the college funding to include both programs/services extramural funding and research extramural funding. To accomplish this, she returned to her pattern of mentoring where appropriate and providing strong supportive office services. As of July, 2020, the college added one funded K01 to our research portfolio and have submitted Just-in-Time (JIT) information for a large R01 and another K01. If both of these grants are acquired, they would have balanced our extramural funding sources, thereby achieving the goal set two years ago.

Since returning as the ADR two years ago, Dr. Liehr has had a strong voice emphasizing the critical importance of understanding the unique human health experience as essential to making a difference for those in our care, while growing the pillar for Human Health and Disease Prevention (I-Health). Dr. Liehr has made efforts to begin outreach to Pillar leaders so that they each know how Nursing can contribute to the University research direction. This will need ongoing attention in the coming years.



PhD Director

Over the 16 years of working at FAU, Dr. Liehr has served as the interim director of the PhD program for at least three extended intervals....when Dr. Chase left the position, when Dr. Williams was out for an extended leave due to health reasons and now, as they have transitioned from Dr. Williams' retirement to the appointment of Dr. Butcher. Dr. Liehr has always assumed this role in addition to ADR responsibilities. Most recently, she worked hard to recruit and enroll a class of 14 incoming PhD students this Fall 2020. She has also been orienting Dr. Butcher since May 2020 to assure a smooth transfer of responsibilities. This has included weekly meetings with Dr. Butcher and Gerardo Guzman, the PhD Advisor.

Summary

This summary presents an overview of sixteen years of dedication to the Christine E. Lynn College of Nursing at Florida Atlantic University. It describes some highlights and omits many others. I am confident that Dr. Liehr's work and contributions reach the level necessary for an emeritus appointment. Dr. Liehr has expressed interest in continuing to contribute as she can as an Emeritus Faculty.

Patricia Liehr, PhD, RN
Curriculum Vitae
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Patricia Liehr, PhD, RN

Institutional: Florida Atlantic University

Affiliation: Christine E. Lynn College of Nursing
777 Glades Rd.
Boca Raton, FL 33431

Contact Information: Telephone (561) 297-2048 (work); Email: pliehr@health.fau.edu

Education:

Robert Wood Johnson Clinical Nurse Scholar, University of Pennsylvania, Philadelphia, PA	1987 – 1989	post- doctoral study
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University of Maryland, Baltimore, MD Major: Nursing Area of Concentration: Psychophysiology	1987	PhD
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Duquesne University, Pittsburgh, PA Major: Nursing Area of Concentration: Family Health	1979	MSN
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Villa Maria College, Erie, PA Major: Nursing	1976	BSN
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Ohio Valley Hospital, School of Nursing, Pittsburgh, PA	1969	Nursing Diploma
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Employment History:

Sharon Raddock Distinguished Professor in Holistic Nursing Florida Atlantic University, Christine E. Lynne College of Nursing Boca Raton, FL	2017 - 2018
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Professor Florida Atlantic University, Christine E. Lynne College of Nursing Boca Raton, FL	2004 – present
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Professor, Associate Dean for Nursing Research and Scholarship Schmidt Family Distinguished Professor Florida Atlantic University, Christine E. Lynne College of Nursing	2004 – 2014 & 2018 – present (interim)
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Patricia Liehr, PhD, RN
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Boca Raton, FL	
Professor	2002 - 2004
Associate Professor,	1989 - 2004
University of Texas-Houston Health Science Center	
School of Nursing, Houston, TX	
Research Consultant, Practice appointment (cardiac rehabilitation)	1991 - 2000
Hermann Hospital, Houston, TX	
Lecturer, Nursing 410: Research and Statistics	1986 - 1987
University of Maryland	
Baltimore, MD	
Associate Staff, Center for the Study of Human Psychophysiology	1985 - 1989
University of Maryland	
Baltimore, MD	
Community Health Nurse	1983 - 1987
VNA of Baltimore	
Research Assistant	1983 - 1985
University of Maryland	
Baltimore, MD	
Director of Family Health Care	1980 - 1982
Visiting Nurse Association of Lawrence County	
New Castle, PA	
Community Health Nurse	1978 - 1979
Butler Home Health Care Agency	
Butler, PA	
Lecturer, Family Health Care	1978 - 1979
Duquesne University School of Nursing	
Pittsburgh, PA	
Lecturer, Community Health Nursing	1977 - 1978
Slippery Rock State College	
Slippery Rock, PA	
Public Health Nurse	1976 - 1977
Pennsylvania Department of Health	

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Ridgeway, PA

Staff Nurse, Intensive Care 1975 - 1976
St. Vincent Health Center
Erie, PA

Faculty 1972 - 1976
St. Vincent Health Center, School of Nursing
Erie, PA

Staff Nurse, Orthopedics; Emergency Room 1969 - 1971
Hospital of the University of Pennsylvania
Philadelphia, PA

Funded Extramural Research:

Co-Principal Investigator. Effect of sit 'n' fit chair yoga on community 2012 - 2016
dwelling elders with osteoarthritis. Funded by the National Center for
Complementary and Integrative Health, NIH (\$387,569)

Co-investigator, Community partnership to affect Cherokee adolescent 2007 - 2010
substance use (J. Lowe, P.I.), Funded by the National Institute of Drug
Abuse, (\$1,365,319).

Co-investigator, Stress reduction in therapeutic community treatment. 2004 - 2008
(M Marcus, P.I.). Funded by the National Institute on Drug Abuse,
(\$1,537,637).

Co-investigator, Substance abuse/HIV prevention in African-American 1999 - 2002
youth. (M Marcus, P.I.). Funded by the Center for substance abuse
prevention, SAMHSA, (\$830,000).

Principal Investigator, Defining a nursing-sensitive blood pressure measure. 1997 - 2000
Funded by the National Institute for Nursing Research,
National Institute of Health, AREA award, 1997 (103,675).

Co-Principal Investigator, Adolescent blood pressure and anger: 1996 - 1999
Ethnic differences. (J. Meininger, P.I.). Funded by National Institute for
Nursing Research, National Institute of Health, 1996 (\$1,076,340).

Principal Investigator, Outpatient cardiac rehabilitation: 1995 - 1998

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Health and cost outcomes. Funded by Merck Pharmaceuticals (\$13,000) and the American Association of Cardiovascular and Pulmonary Rehabilitation (\$1,000).

Co-Principal Investigator, Adolescent blood pressure and anger: 1993 - 1995
Ethnic differences. (J. Meininger, P.I.). Funded by a Shannon Award from National Institute for Nursing Research, National Institutes of Health (\$100,000).

Principal Investigator, The Effect of external venous support 1988 - 1990
Following Coronary Artery Bypass Graft Surgery.
Funded by Professional Medical Products (\$8,000).

Principal Investigator, Cardiovascular changes during dialogue. 1985 - 1986
Nurse Research Service Award funded by the Division of Nursing.

Funded Intramural Research:

Principal Investigator, Defining a nursing sensitive blood pressure measure. 1997 - 2000
An extension, University Clinical Research Center at Hermann Hospital.

Principal Investigator, Defining a nursing sensitive BP outcome measure. 1995 - 1996
University of Texas – Houston, Health Science Center, School of Nursing, (\$1848).

Co-Investigator, The effect of a modified exercise program on 1989 - 1990
the rehabilitation of coronary artery bypass graft patients. (B. Munro, P. I.)
Funded by the Research Foundation, University of Pennsylvania (\$5000).

Funded Extramural PhD Student Research:

Intervening to reach adolescents and affect health. Linda Summers, 2002 - 2004
Funded by the National Institute of Nursing Research., NRSA.

Predicting hypertension using blood pressure reactivity. Lorraine Frazier
Funded by the National Institute of Nursing Research., NRSA. 1999 – 2000

Creative Scholarship

- “With Their Voices Raised”. Documentary Theatre Performance of Research. November 11, 2012 at University Theatre, Florida Atlantic University; December 6, 2012 at Morikami Museum and Japanese Gardens; November 13, 2013 at Miami-Dade College.
- “With Their Voices Raised”. Documentary Theatre Performance of Research by high school students from Funairi High School, Hiroshima, Japan. May 24, 2014 at the Kyoto International Conference Center. 35th International Association for Human Caring Conference. Kyoto, Japan.
- “With Their Voices Raised”. Documentary Theatre Performance of Research by high school students from Farrington High School, Oahu HI. November 9 at the Pacifica Aviation Museum, Pearl Harbor HI.
- “With Their Voices Raised”. Documentary Theatre Performance of Research. September 21, 2015. University Theatre, Florida Atlantic University. In recognition of the United Nations Day of Peace.
- “With their Voices Raised” readings (2016): Military Officers Association of America, April 16; FAU High School, May 9-11; Anne Boykin Institute, June 21.

Opalinski, A., Dyess, S., Stein, N. & **Liehr, P.** (2017). Homelessness and Dignity of Caring for Feet. National Academy of Medicine Visualize Health Equity: Community Art Gallery. Accessed from <https://nam.edu/visualizehealthequity/#/artwork/56>.

Publications:

Refereed Journal Articles (* data-based)

- Liehr, P & Smith, M.J. (2020). Claiming the narrative wave with story theory. *Advances in Nursing Science*, 43(1), 15-27.
- McCaffrey R. & Liehr, P. (2017). Strolls for well-being: The Morikami model. *The Journal of the North American Japanese Garden Association*, 4, 76-78.
- Petcharat, M. & Liehr, P. (2017). Mindfulness training for parents of children with special needs: Guidance for nurses in mental health practice. *Journal of Child and Adolescent Psychiatric Nursing*, doi: 10.1111/jcap.12169.
- Liehr, P. & Smith, M.J. (2017). Middle range theory: A perspective on development and use. *Advances in Nursing Science*.40(1), 51-63.
- *Park, J., McCaffrey, R., Newman, D., Liehr, P. & Ouslander, J.G. (2016). A pilot randomized controlled trial of the effects of chair yoga on pain and physical function among community dwelling older adults with lower extremity arthritis. *Journal of the American Geriatric Society*, doi: 10.1111/jgs.14717
- *Park, J., Newman, D., McCaffrey, R., Garrido, J.J., Riccio, M.L. & Liehr, P. (2016). The effect of chair yoga on biopsychosocial changes in English- and Spanish-speaking community-dwelling

- older adults with lower-extremity osteoarthritis. *Journal of Gerontological Social Work*, 59 (7-8), 604-626.
- Liehr, P., Sopcheck, J. & Milbrath, G. (2016). Remembering Pearl Harbor at 75 years: Stories of Army and Navy nurses who were there. *American Journal of Nursing*, 116(12), 54-57.
- *Chiang-Hanisko, L., Newman, D., Dyess, S., Piyakong, D. & Liehr, P. (2016). Guidance for using mixed methods design in nursing practice research. *Applied Nursing Research*, 31, 1-5.
- *McCaffrey, R. & Liehr, P. (2015). The effect of reflective garden walking on adults with increased levels of psychological stress. *Journal of Holistic Nursing*, 33(3), 1-8.
- Millender, E. I., Lowe, J. & Liehr, P. (2015). What's in a name? Hispanic immigrant refugee identity crisis: Focus on Mayas. *AlterNative*, 11(2), 191-198.
- *Taylor, W.C., Horan, A., Pinion, C., & Liehr P. (2014, May). Evaluation of booster breaks in the workplace. *Journal of Occupational and Environmental Medicine*, 56(5), 529-534.
- *Jolly, K., Archibald, C. & Liehr, P. (2013). Risk-taking in first and second generation Afro Caribbean adolescents: An emerging challenge for school nurses. *The Journal of School Nursing*, doi:10.1177/1059840513475819.
- *Liehr, P., Morris, K., Leavitt, M.A. & Takahashi, R. (2013). Translating research findings to promote peace: Moving from "field to forum" with verbatim theatre. *Advances in Nursing Science*, 36(3), 160-170.
- *Marcus, M.T., Taylor, W.C., Walker, T., Carroll, D.D, Cron, S.G., Marcus-Mendoza, S.T. & Liehr P. (2013). Project SMART: An interdisciplinary collaboration to design and test a mentored health promotion program for school children. *Journal of Addictions Nursing*, 24(1), 20-28.
- *Marcus, M.T., Schmitz, J., Moeller, F.G., Liehr, P. Swank, P., Cron, S.G. & Carroll, D.D. (2012). Stress and length of stay in therapeutic community treatment for adolescents with substance use disorders. *Addictive Disorders & Their Treatment*, doi:10.1097/ADT.0b013e31826cfd9b28 [not previously reported}.
- *Diaz, N., Liehr, P., Curnan, L., Brown, J. & Wall, K. (2012). Playing games: Listening to the voices of children to tailor a mindfulness intervention. *Children, Youth and Environments*, 22(2), 273-285.
- *Liehr, P. Nishimura, C., Ito, M., Wands, L.M., & Takahashi, R. (2011). A lifelong journey of moving beyond wartime trauma for survivors from Hiroshima and Pearl Harbor. *Advances in Nursing Science*, 34(3), 215-228.
- *Hain, D.J., Wands, L.M., & Liehr, P. (2011). Approaches to resolve health challenges in a population of older adults undergoing hemodialysis. *Research in Gerontological Nursing*, 4(1), 53-62.
- *McCaffrey, R., Liehr, P., Gregerson, T., & Nishioka, R. (2011). Garden walking and art therapy for depression in older adults: A pilot study. *Research in Gerontological Nursing* 18(93) 48-52.
- *Liehr, P., Marcus, M., Carroll, D., Granmayeh, L.K., Cron, S.G. & Pennebaker, J.W. (2010). Linguistic analysis to assess the effect of a mindfulness intervention on self-change for people in substance use recovery. *Substance Abuse*, 31, 79-85.
- *Lowe, J., Riggs, C., Henson, J. & Liehr, P. (2009). Cherokee self-reliance and word-use in stories of stress. *Journal of Cultural Diversity*, 16(1), 5-9.

- *Bankston, S.M., Carroll, D.D., Cron, S.G., Granmayeh, L.K., Marcus, M.T., Moeller, F.G., Schmitz, J.M., Swank, P. & Liehr, P.R. (2009). Substance abuser impulsivity decreases with a nine-month stay in a Therapeutic Community. *The American Journal of Drug and Alcohol Abuse*, 35, 417-420.
- *Takahashi, R., Nishimura, C., Ito, M., Wands, L.M., Kanata, T. & Liehr, P. (2009). Health stories of Hiroshima and Pearl Harbor survivors. *Journal of Aging, Humanities and the Arts*, 3, 160-174.
- *Liu, H. & Liehr, P. (2009). Instructive messages from Chinese nurses' stories of caring for SARS patients. *Journal of Clinical Nursing*, 18, 2880-2887.
- *Marcus, M., Schmitz, J., Moeller, F.G., Liehr, P., Cron, S.G., Swank, P., Bankston, S., Carroll, D. & Granmayeh, L.K. (2009). Mindfulness-based stress reduction in therapeutic community Treatment: A stage 1 trial. *The American Journal of Drug and Alcohol Abuse*, 35, 103-108.
- *Carroll, D., Lange, B. Liehr, P., Raines, S. & Marcus, M. (2008). *Archives of Psychiatric Nursing*, 22(2), 107-109.
- *Wongpiriyayothar, A., Pothiban, L., Liehr, P., Senaratana, W. & Sucumvang, K. (2008). Effects of home-based care program on symptom alleviation and well-being among persons with chronic heart failure. *Thai Journal of Nursing Research*, 12(1), 25-38.
- Liehr, P. (2008). Caring scholar response to: Honors programs as a way to grow the discipline. *International Journal of Human Caring*, 12(2), 54-57.
- Jolly, K., Weiss, J. & Liehr, P. (2007) Understanding adolescent voice as a guide for nursing practice and research. *Issues in Comprehensive Pediatric Nursing*, 30, 3-13.
- *Marcus, M., Liehr, P., Schmitz, J., Moeller, G., Swank, P., Fine, P. M., Cron, S., Granmayeh, K. & Carroll, D. D. (2007). Behavioral therapies trials: A case example. *Nursing Research*, 56(3), 210-216.
- *Ito, M., Takahashi, R., & Liehr, P. (2007). Heeding the behavioral message of elders with dementia in daycare. *Holistic Nursing Practice*, 21(1), 12-18.
- *Mandell, M. S., D'Alessandro, A. M., Zamudio, S., Seem, D., McGraw, L. J., Wood, G., Liehr, P., et al. (2006). National evaluation of healthcare provider attitudes towards organ donation after cardiac death. *Critical Care Medicine*, 34(12), 1-6.
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- *Taylor, W., Liehr, P., Laws, D., Ahsan, S., Edwards, T., Walker, T., & Marcus, M. (2005). Linguistic inquiry and word count: An unobtrusive strategy to evaluate youth camps. *Journal of Youth Ministry*, 4(1), 39-51.
- Smith, M. J., & Liehr, P. (2005). Story theory: Advancing nursing practice scholarship. *Holistic Nursing Practice*, 19(6), 272-277.
- Liehr, P. (2005). Looking at symptoms with a middle range lens. *Advanced Studies in Nursing*, 3(5), 152-157.
- *Takahashi, R., Liehr, P., Nishimura, C., Ito, M., & Summers, L. (2005). The meaning of health for Japanese elders who have had a stroke. *Japan Journal of Nursing Science*, 2, 41-49.

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- Liehr, P., Takahashi, R., Liu, H., Nishimura, C., Ito, M., & Summers, L. (2004). Bridging distance and culture with a cyberspace method of qualitative analysis. *Advances in Nursing Science*, 27(3), 176-186.
- *Meininger, J. C., Liehr, P., Chan, W., Smith, G. & Mueller, W. (2004). Developmental, gender, and ethnic group differences in moods and ambulatory blood pressure in adolescents. *Annals of Behavioral Medicine*, 28, 10-19.
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- *Marcus, M., Fine, M., Moeller, F. G., Khan, M. M., Pitts, K., Swank, P. R., & Liehr, P. (2003). Change in stress levels following mindfulness-based stress reduction in a therapeutic community. *Addictive Disorders and Their Treatment*, 2(3), 63-68.
- *Gladney, A., Ayars, C., Taylor, W. C., Liehr, P., & Meininger, J. C. (2003). Consistency of findings produced by two multidisciplinary research teams. *Sociology*, 37(2), 297-313.
- Nishimura, C., Takahashi, R., Miyamoto, S., Saito, T., Kanemaru, A., & Liehr, P. (2003). Lessons learned as a research assistant studying ambulatory blood pressure in elderly Japanese stroke patients. *Nursing and Health Sciences*, 5, 51-57.
- Liehr, P., Leaverton, R., Yepes, A., Frazier, L., & Fuentes, F. (2003). Addressing current challenges to cardiac rehabilitation care. *AACN Clinical Issues: Advanced Practice in Acute and Critical Care*, 14(1), 13-24
- *Reyes, L. R., Meininger, J. C., Liehr, P., Chan, W., & Mueller, W. H. (2003). Anger in adolescents: Gender, ethnicity, age differences and psychometric properties. *Nursing Research*, 52(1), 2-11.
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- *Meininger, J. C., Liehr, P., Mueller, W. H., & Chan, W. (2001). Identification of high risk adolescents for interventions to lower blood pressure. In S. Funk (Ed.). *Keys aspects of managing chronic illness* (pp. 57-70). New York: Springer.
- Liehr, P., & Smith, M. J. (2000). Using story to guide nursing practice. *International Journal of Human*

Caring, 4(2), 13-18.

- *Liehr, P., Meininger, J., Mueller, W. H., Chan, W., Frazier, L., & Reyes, L. R. (2000). Psychometric testing of the adolescent version of the Cook-Medley Hostility Scale. *Issues in Comprehensive Pediatric Nursing*, 23, 103-116.
- *Meininger, J. C., Liehr, P., Mueller, W. H., Chan, W., Smith, G., & Portman, R. (1999). Stress induced alterations and 24-hour ambulatory blood pressure in adolescents. *Blood Pressure Monitoring*, 4, 115-120.
- Smith, M. J., & Liehr, P. (1999). Attentively embracing story: A middle range theory with practice and research implications. *Scholarly Inquiry for Nursing Practice*, 13(3), 3-27.
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- *Mueller, W. H., Meininger, J. C., Liehr, P., Chan, W., & Chandler, S. (1996). Conicity: A new index of body fat distribution: What does it tell us? *American Journal of Human Biology*, 8, 489-496.
- Weeks, L., Starck, P., Liehr, P., & La Fontaine, K. (1996). Graduate nursing education: What are the benefits and costs to the hospitals. *Journal of Nursing Administration*, 26(2), 20-30.
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- *Axton, S., Bertrand, S., Smith, L., Dy, E., & Liehr, P. (1995). Comparison of brachial and calf blood pressures in infants. *Pediatric Nursing*, 21(4), 323-326.
- *Liehr, P., Dedo, Y., Torres, S., & Meininger, J. (1995). Assessing agreement between clinical measurement methods. *Heart and Lung*, 24(3), 240-245.
- Thomas, S., & Liehr, P. (1995). Cardiovascular reactivity to verbal communication: An emerging risk factor. *Journal of Cardiovascular Nursing*, 9(2), 1-11.
- Liehr, P., & Weeks, L. (1995). How to support a hospital-based model for nursing research mentorship. *Aspen Advisor for Nurse Executives*, 10(4), 4-5.

- Liehr, P., & Houston, S. (1993). Critiquing and using nursing research: guidelines for the critical care nurse. *American Journal of Critical Care*, 2(5), 407-412.
- Thomas, S. A., Liehr, P., Friedmann, E., & DeKayser, F. (1993). Nursing blood pressure research, 1980 to 1990: A bio-psycho-social perspective. *Image: Journal of Nursing Scholarship*, 25(2), 157-164.
- Liehr, P. (1992). Prelude to research. *Nursing Science Quarterly*, 5(3), 102-103.
- *Liehr, P. (1992). Uncovering a hidden language: The effects of listening and talking on blood pressure and heart rate. *Archives of Psychiatric Nursing*, 6(5), 306-311.
- *Simmons, M., Phillips, P., Doctor, U., & Liehr, P. (1992). The effect of two intraoperative heat conserving methods on orthopedic patients receiving regional and general anesthesia. *Journal of Post Anesthesia Nursing*, 7(3), 170-175.
- *Liehr, P., Todd, B., Rossi, M., & Culligan, M. (1991). The effect of venous support on edema and leg pain in patients after coronary artery bypass graft surgery. *Heart and Lung*, 21(1), 6-11.
- Culligan, M., Todd, B., & Liehr, P. (1990). Preventing graft complications on CABG patients. *Nursing* 90, 20(6), 59-61.
- Mull, R., & Liehr, P. (1989). Detecting heart transplant rejection. *Nursing* 89, 19(6), 88.
- Liehr, P. (1989). The core of true presence: A loving center. *Nursing Science Quarterly*, 2(1), 5-6.
- Liehr, P. (1988). Review of the book *Anger and hostility in cardiovascular and behavioral disorders*, M. Chesney & R. Rosenman (Eds.). *The Journal of Nervous and Mental Disease*, 176(3), 193-194.

Book:

- Smith, M. J., & Liehr, P. R. (Eds.). (2018). *Middle Range Theory for Nursing*. 4th Ed. New York: Springer.

Book Chapters:

- Liehr, P. & Smith, M.J. (2018). Story theory. In *Middle Range Theory for Nursing*. 4th Ed. New York: Springer.
- Liehr, P & Smith M.J. (2018). Concept building for research. *Middle Range Theory for Nursing*. 4th Ed. New York: Springer.
- Smith, M.J. & Liehr, P. (2018). Understanding middle range theory by moving up and down the ladder of abstraction. *Middle Range Theory for Nursing*. 4th Ed. New York: Springer.
- Liehr, P.L. & Smith, M.J. (2014). Story theory. In *Nursing Theories and Nursing Practice*. 4th Ed. Philadelphia: F.A. Davis.
- Liehr, P.L. & Smith, M.J. (2011). Modeling the complexity of story theory for nursing practice. In A.W. Davidson, M.A. Ray, M.C. Turkel (Eds.), *Nursing, Caring and Complexity Science*. New York: Springer.
- Liehr, P., & LoBiondo-Wood, G. Qualitative approaches to research. (2006). In G. LoBiondo-Wood & J. Haber (Eds.), *Nursing Research: Methods, Critical Appraisal and Utilization*, (6th ed.), St.

Louis, MO: C.V. Mosby.

Liehr, P., & Smith, M. J. (2006). Frameworks for research. In G. LoBiondo-Wood & J. Haber (Eds.), *Nursing Research: Methods, Critical Appraisal and Utilization* (6th ed.), St. Louis: Mosby.

Non-refereed Publications:

Opalinski, A. & Liehr, P. (June 23, 2020). We are the theory-practice connection: COVID-19 tells us so. <https://nursology.net>

Liehr, P., & Smith, M. J. (2016). Middle range theories. In J. Fitzpatrick & M. Wallace (Eds.), *Encyclopedia of Nursing Research* (3rd ed.), New York: Springer.

*Songwathana, P. & Liehr, P. (2015). Approaches for moving beyond abrupt widowhood: A case analysis with one Muslim Thai woman. *Archives of Psychiatric Nursing*, 29,361-361.

Smith, MJ. & Liehr, P. (2012). Concept building: Applying rigor to conceptualize phenomena for nursing research. *Applied Nursing Research*, 25, 65-67.

Liehr, P. & Takahashi, R. (2012). Reflections and lessons about international team building for research. *Archives of Psychiatric Nursing*, 26(5), 430-431.

Liehr, P. & Smith, M.J. (2011). Refining story inquiry as a method for research. *Archives of Psychiatric Nursing*, 25(1), 74-75.

*Liehr, P., & Diaz, N. (2010). A pilot study examining the effect of mindfulness on depression and anxiety for minority children. *Archives of Psychiatric Nursing*, 24(1), 69-71.

Liehr, P. & Smith, M.J. (2009). A convergence of formative events to guide mental health nursing research. *Archives of Psychiatric Nursing*, 23(1), 86-88.

Smith, M.J. & Liehr, P. (2008). Theory-guided translation: emphasizing human connection. *Archives of Psychiatric Nursing*, 22(3), 175-176.

Liehr, P., & Smith, M. J. A neomodernist perspective for researching chronicity. *Archives of Psychiatric Nursing*, 21(6), 345-346.

Liehr, P. & Smith, M.J. (2007). Story inquiry: A method for research. *Archives of Psychiatric Nursing*, 21(2), 120-121.

Takahashi, R., & Liehr, P. (2004). His-story as a dimension of the present. *Journal of the American Geriatrics Society*, 52, 1594-1595.

Liehr, P., & Takahashi, R. (2000). Initiating a dialogue based on Patricia R. Underwood's manuscript: Universal problems - cultural solutions. *Journal of Japan Academy of Nursing Science*, 20(2), 55-57.

Liehr, P. (1996). So you would like to do some research?: Lessons from a pilot study. *The Heart of Texas, The Texas Association of Cardiovascular and Pulmonary Rehabilitation Newsletter*, 7(1), 6-7.

Liehr, P. (1996). Research subjects as collaborators: Tips for acquiring informed consent. *The Heart of Texas, The Texas Association of Cardiovascular and Pulmonary Rehabilitation Newsletter*, 7(3), 6-7.

Liehr, P. (1996). Identifying a research question from everyday work experience: Is a qualitative or

quantitative approach required? *The Heart of Texas, The Texas Association of Cardiovascular and Pulmonary Rehabilitation Newsletter*, 7(4), 6-7.

Selected Presentations (since 2004):
International

- Liehr, P (October, 2018, 2019). Building concepts through a middle range theory lens. Thammasat University. Bangkok, Thailand (webcast to PhD students).
- Liehr, P. (2017). Middle range theory: Where we are now and how we move on. Twenty first International Seminar of Care: Training, Practice and Research in the 21st Century. Sponsored by the National University of Columbia, Bogota, Columbia.
- Liehr, P. (2017). Story theory as a guide to nursing practice and research. Twenty –first International Seminar of Care: Training, Practice and Research in the 21st Century. Sponsored by the National University of Columbia, Bogota, Columbia.
- Liehr, P. (2015). Using story theory to access participant voice in clinical research. (preconference workshop – invited). International Association of Clinical Research Nurses, 7th Annual Conference, Baltimore, MD.
- Liehr, P. Newman, D., Dyess, S., Chiang-Hanisko, L., & Curnan, L. (2014). *Mixing qualitative and quantitative study components to address the complexity of human health*. Tokyo Metropolitan Institute of Gerontology. Tokyo Japan. (Invited).
- Liehr, P. (2008). Extracting knowledge from narrative through qualitative research methods: Phenomenology, grounded theory and story inquiry. Tokyo Medical and Dental University. Tokyo, Japan.
- Liehr, P. (2005). Nursing Approaches to lower blood pressure for people with Stage one hypertension, 16th Great Wall International Congress of Cardiology Symposium, November 3-6, Beijing, China.

Selected Presentations (since 2004):
National

- Liehr, P., Ito, M., Nishimura, C., Morris, K., Matsuda, Y & Takahashi, R. (2016). Connecting through documentary script to promote cross-national understanding, American Holistic Nurses Association annual conference, Bonita Springs FL
- Liehr, P. (2016). Tapping the power of story as a vital sign for faith community nursing practice and research. (invited keynote). Westberg Symposium 2016: Faith Community Nursing Resilience. Chicago IL.
- Liehr, P. (2016). Moving beyond the single story through a theory-guided method. (invited).

- Eliminating Health Disparities: Integrating Nursing Models of Success. 2016 Intensive Training Institute. Minority Fellowship Program. American Nurses Association, Boca Raton FL.
- Liehr, P. (2016,). Facilitating the Stroll for Well-being. (invited). Towards a Healthier World: Japanese Gardens as Places for Wellness and Transformation. 2016 Biennial Conference. North American Garden Association. Delray Beach FL.
- Liehr, P & Takahashi, R. (2015) Building cross-disciplinary, national and generational bridges through collaborative research. Southern Nursing Research Society, Tampa FL.
- Liehr, P. & Newman D. (2014). Converting words to numbers and merging data to address the complex human experience of surviving Pearl Harbor bombings. Council for the Advancement of Nursing Science, State of the Science Congress. Washington DC.
- Liehr, P. (2014). *Scientific importance of nursing stories: Harnessing the power of story evidence to change practice*. Florida Nurses Association, Clinical Excellence Conference. Tampa FL (Invited).
- Liehr, P., Morris, K., Leavitt, M.A., Takahashi, R. (2013). Tapping the Magic of Verbatim Theatre to Move from "Field to Forum": Translating Peace-Promoting Research Findings, 34th International Association for Human Caring Conference, Orlando Florida.
- Liehr, P. (2013). Military nursing and white cap sketches: Lieutenant (2LT) Monica Conter Benning, 1LT Annie G. Fox, and 2LT Anna Urda Busby. 7th Annual Distinctive Women in Hawaiian History Program, Honolulu HI.
- Liehr, P., Morris, K., Binder, A. & Takahashi, R. (2013). Translation of research findings through creative dissemination. Southern Nursing Research Society Annual Meeting, Little Rock AK.
- Liehr, P. & Lowe, J. (2013). Mixing words and numbers through analysis of Native American Indian adolescents' stories of stress. In symposium: A systematic approach to mixed methods design. (Newman, Dyess, Chaing-Hanisko, Curnan & Liehr). Southern Nursing Research Society Annual Meeting, Little Rock AK
- Liehr, P., Diaz, N., Brown, J.L. & Wall, K. (2012). Using Community-Based Participatory Research (CBPR) to Address Childhood Emotional Reactivity Through Mindfulness, Association for Behavioral and Cognitive Therapy Convention. National Harbor, MD.
- Liehr, P. (2010). Exploring common ground in health stories from Pearl Harbor and Hiroshima survivors. Symposium at 2010 State of the Science, Congress on Nursing Research, September 28. Washington DC.
- Liehr, P. (2009). Symposium, Building structures for interdisciplinary research. Annual Conference of the Southern Nursing Research Society, February 12 -14, Baltimore MD.
- Liehr, P. (2009). Story as a bridge between science, culture and nursing practice. SAMHSA Minority Fellowship Program Intensive Winter Institute, January 15, Miami FL.
- Liehr, P., Marcus, M., Carroll, D., Granmayeh, L.K. & Cron, S. (2008). Narrative analysis to assess self-change for people in substance use recovery. The National State of the Science Congress in Nursing Research, Washington DC.
- Liehr, P. (2007). Symposium, Mining the evidence in health challenge stories to inform nursing practice. Annual Conference of the Southern Nursing Research Society, Galveston TX.
- Liehr, P., Marcus, M., Granmayeh, L., Carroll, D., Dillon, A., & Morales, E. (2007). Stories of stress as

- markers of change for people living in a therapeutic community. Annual conference of the Southern Nursing Research Society, Galveston TX.
- Marcus, M., Liehr, P., & Granmayeh, L.K. (2006). Tailoring mindfulness-based stress reduction for substance abuse treatment. 30th Anniversary Annual National Conference: Association for Medical Education and Research in Substance Abuse, November 3, Washington DC.
- Liehr, P., Meininger, J.C., Mueller, W., Chan, W., Ligonde-Merisio, M., & Staudenmeyer, A. (2006). Using real-time measurement methods to enhance understanding of complex health relationships in ethnically diverse adolescents. The National State of the Science Congress in Nursing Research, Washington DC.
- Liehr, P. (2005). Viewing symptoms through a middle range lens. Keynote address, Fourth Annual Research Day, Chesapeake Consortium Research Conference, Baltimore MD.
- Liehr, P., Meininger, J., Mueller, W., & Chan, W. (2005). The blood pressure effects of talking about anger for ethnically diverse adolescents. Annual conference of the Southern Nursing Research Society, Atlanta, GA.
- Liehr, P., Calvin, A., Summers, L., & Smith, M.J. (2004). Symposium: Maximizing the power of story to promote health from adolescent to elder years. Nursing Science – Working Toward a Healthier Nation, National Congress on the State of the Science in Nursing Research, Washington, DC.
- Liehr, P., Takahashi, R., Nishimura, C., Itoh, M., & Summers, L. (2004). Stories about health from Japanese elders who have had a stroke. Symposium paper presented at Nursing Science – Working Toward a Healthier Nation, National Congress on the State of the Science in Nursing Research, Washington, DC.

Selected Presentations (since 2004):

Regional/local

- Velasquez-Botero, I., Liehr, P., Lo, W., Rosen, V. & Gaviria, C. (October, 2018). Action research: Refining a therapeutic walking program and identifying outcomes. FAU Inaugural Research Showcase.
- Liehr, P. (2018, Nov. Podium) *Moving on from NOW. Mindfulness; Creating a Space to Care.* Nursing Consortium of South Florida Annual Conference, Davie FL. (Invited Keynote).
- Chiang-Hanisko, L., Graves, B.S., Liehr, P., Newman, D., & D'Avolio, D. (2018). *Involving Undergraduate Honors Student in Interdisciplinary Research.* 11th Annual Florida Statewide Symposium. October 19-20, 2018. Boca Raton, FL. (Podium presentation)
- Liehr, P. (January, 2018). Mindfulness and self-compassion. Holistic Self-Care Conference for Nurses. American Holistic Nurses Association, Pompano Beach, FL.
- Liehr, P. (2010). Lessons learned from women who survived Hiroshima and Pearl Harbor. Issues in Women's Health. Florida Atlantic University, Boca Raton FL.
- Liehr, P., Takahashi, R., Nishimura, C., Ito, M. & Wands, L.M. (2010). Above all, valuing peace: Stories from Hiroshima and Pearl Harbor. Florida Atlantic University Peace Week in celebration of the visit of His Holiness, the 14th Dalai Lama of Tibet, Boca Raton FL.
- Liehr, P. (2004). Spinning the web: Nursing theory, research and practice. Keynote address, Twelfth

Annual Research Day, Sigma Theta Tau International, Epsilon Chapter, University of Central Florida, Orlando, FL.

Academic Leadership Experience:

- Associate Dean for Nursing Research & Scholarship, FAU 2004 - 2014
Christine E. Lynn College of Nursing 2018 - present
- Coordinator, Baccalaureate PLUS Program, UT-H 2001 – 2003
- Chair, Undergraduate Council, UT-H 2001 – 2002
- Faculty Chair, School of Nursing, UT-H 1997 – 2000
- Interim Department Chair, Department of Systems, School of Nursing, UT-H, February-September 1995
- Project Director, Joint Nursing Graduate Program, Demonstration 1994
Project between Hermann Hospital and the UT-H School of Nursing,
funded by the U.S. Department of Health and Human Services.

Courses Taught at Florida Atlantic University:

- NGR7121 Theory Development and Application in Nursing
- NGR 7932 Doctoral Seminar in Knowledge Development 1
- NGR 7115 Philosophy of Science Grounding Nursing
- NUR4165 Nursing Research
- NUR4937 Scholarship in Evidence-based Nursing
- NUR4934 Honors Seminar in Nursing 1
- NUR4935 Honors Seminar in Nursing 2

FAU PhD Students (chaired) with Dissertation Titles:

2020 Mercedes Rodriguez: Fleeing Homeland: Health Challenges of Cuban Refugees from the Mariel Boatlift

2020 Misako Nagata: Exploring the Factors of Natural Space on Well-being of Urban-dwelling Children

2018 Manika Petcharat: The Effect of a Brief Culturally Tailored Thai Mindfulness Intervention on Stress, Anxiety and Mindfulness in Thai Parents of Children with Developmental Disabilities

2017 Christine Moffa: Exploring the Moderation Effect of a Caring Work Environment on the Relationship Between Workplace Mistreatment and Nurses' Ability to Provide Quality Patient Care

2016 Laurie Curnan: Avatar-Guided Stories of Ease from Adolescents with Cancer

2016 Janet Sopcheck: Health Challenges of Family Members in End-of-Life Situations

2015 Mary Ellen Wright: Sources of Informational Social Support for Mothers of Infants Residing in the Western North Carolina Appalachian Region

2014 Duangporn Piyakong: The Effect of Engagement Interventions on Uncertainty and Coping of Thais Family Members of Patients in Coma

2014 Shelley Greif: Challenges Faced by Parents Caring for Their Child with Traumatic Brain Injury

2011 Lisa Marie Wands: Health of Veterans Home from War

2010 Debra Hain: Cognition and Adherence of Older Adults Undergoing Hemodialysis

2010 Joy Longo: The Relationship of Horizontal Violence, Oppressed Group Behavior and Job Satisfaction on Intent to Leave a Nursing Position

2009 Kim D. Jolly: Immigrant Status, Substance Use and Sexual Risk Behavior Among Afro-Caribbean Adolescents Living in the U.S.

Undergraduate Students: Honors Thesis

Jessica Gushue: Differences in Perceptions Regarding Wartime Violence for Adolescent Males and Females - graduated

Isabella Velasquez-Botero: Stress and Emotion for Participants in a Therapeutic Walking Program – 2nd year Honors student

Victoria Falcone: Adolescent Male and Female Description of Feelings About Wartime Violence – 1st year Honors student

FAU Service: Institution

Institutional Review Board, FAU	2016 – 2018
Sustained Performance University Committee	2014 - 2016
Anne Boykin Institute for the Advancement of Caring	2011 – 2014
University Research Council, Florida Atlantic University	2009 - 2014
Chair, FAU Research Committee	2006 – 2007
University Research Committee, Florida Atlantic University	2004 – 2008

FAU Service: Profession

Advisory Board, ANA Minority Fellowship Program	2018 - present
Section Editor, Archives in Psychiatric Nursing	2010 - 2018
Reviewer, Advances in Nursing Science	2013 – present
Reviewer, Archives of Psychiatric Nursing	2006 - present
Editorial Board, International Journal of Human Caring	2005 – 2018
Reviewer, American Nurses Foundation grants	2006 – 2009
ANF Research Committee, Chair	2008
ANF Research Committee, Vice Chair	2007
Doctoral Program consultation, University of Central Florida	2004, 2005

FAU Service: Community

Facilitator/Leader, Stroll for Well-Being, Morikami Museum	2010 - present
Board of Trustees, Slomin Family Foundation for Autism	2012 – 2018
Board of Trustees, Morikami Museum and Japanese Gardens	2010 - 2014
Advisory Board, Karen Slattery School at Florida Atlantic University	2009 - 2011
Planning Committee, Florida CURED Summit	2006-2007

Professional Memberships :

American Nurses Association (ANA), Florida Nurses Association (FNA)
American Holistic Nurses Association
Council for the Advancement of Nursing Science
International Association of Human Caring
Sigma Theta Tau
Sigma Xi
Southern Nursing Research Society

Honors and Awards:

Undergraduate

- Graduated magna cum laude
- Who's Who in American Colleges and Universities

Graduate

- Outstanding Student, University of Maryland, Doctoral Program
- Who's Who in American Colleges and Universities
- Elected to Sigma Theta Tau, Pi Chapter

- Elizabeth Ann Groff Award presented by the Pennsylvania Association of Home Health Agencies for a paper entitled "Holding on/Letting Go: A Conceptual Approach to Improving Quality Care While Maximizing Staff Energies"

Post-graduate

- Sharon Raddock Distinguished Professor in Holistic Nursing, 2017-2018
- Fellow, Peace, Justice and Human Rights Initiative, 2014-present
- *An American Journal of Nursing* book of the year recipient for *Middle Range Theory for Nursing*, in the research category, 2003 (first edition); 2009 (second edition); 2014 (third edition).
- Visiting Scholar, Tokyo Metropolitan Institute of Gerontology, annually from 1997 to 2015
- Palm Healthcare Palm Beach Post Nurse of the Year, May, 2012
- Selected as one of the Great 100 Nurses for the Florida Nurses Association Centennial Celebration in the area of role model, September, 2009.
- Dean's Award for Excellence in Teaching, University of Texas, Houston Health Science Center, School of Nursing
- Outstanding Nurse, Nursing Celebration 94, Texas Nurses Association, 1994
- Selected as a Robert Wood Johnson Scholar, 1987 - 1989