Center Name: Kresge Center for Nursing Research
Center Director: Ann Hall Myers, ScD, RN, Interim Director

I. Center Accomplishments During Reporting Period
   a. Nursing faculty and colleagues from other Departments/Schools have received grant funding:
      Dr. Ann Fronczek (DSON) and Dr. Mohammad Khasaweneh (SSIE) are Co-PI's on a grant from the Regional Economic Development Council of the Southern Tier Telemedicine and Mobile Health Care Technology Fund. Southern Tier Telemedicine and Mobile Health Research, Development and Training Center. $1.666.163 (Funding pending).

      Dr. Sue Seibold-Simpson (DSON), Dr. Sean Massey (CCPA-Human Development) and Dr. Ann Merriweather (Psychology) submitted an R21 to NIH in February 2014. (not funded)

      Dr. Huiyang Li (SSIE), Dr. Ann Myers, (DSON), and Dr. Zhenpang Jin (EE&CE), received an ICP intramural grant, Developing a Fall Prevention and Alerting System for Nursing Homes, for $10,000. An extramural grant will be submitted as an outcome of the project. This study takes place in Broome County nursing homes, bringing visibility to the University.

      Dr. Guy German (Biomedical Engineering) and Dr. Ann Myers (DSON) designed a hip protector to prevent hip fractures when a fall occurs. A White Paper was prepared and an application for a patent is being prepared by a patent attorney for the University through IP and TT.

      Dr. Mary Muscari (DSON) prepared the renewal of a three-year federal training grant that was funded to prepare Master's level Psychiatric/Mental Health Nurse Practitioners. There is a paucity of psychiatrists and this training grant is an attempt to ameliorate the situation in rural areas in New York State.

      Papers by multidisciplinary authors can be found in the Publications section 2 a.

   b. Dr. Yvonne Johnston (DSON) has collaborated with the Broome County Health Department on CDC grants that have been successfully funded. Dr. Johnston consults with groups responsible for the Medicaid Redesign in our designated region including Broome County and other Southern Tier counties. Data from this program will be available for studies by faculty, PhD and DNP students.

      Gail Mathieson-Devereau (DSON), Margaret Decker (DSON) and Dr. Ann Myers (DSON) have been collaborating with Senior Design faculty and students in Biomedical Engineering (Fall 2014)

      MedTech sponsored a program in Rochester Dec. 2014 (postponed due to weather until Jan, 2015) at Getinge manufacturing site, in which Scott Hancock was one of the speakers and he gave
visibility to the DSON as a resource along with other University programs that could collaborate with industry. Getinge is a Swedish company that builds sterilizers and warmers for use in hospitals and other sites. Dr. Ann Myers attended as a member.

c. The Green Bag Research Lunches have continued throughout each semester in 2014 in which DSON PhD students and faculty along with faculty from other BU Schools and Departments present their research. These initial interactions have led to interdisciplinary papers and research projects. e.g. Dr. Kasim Sabounchi (SSIE) and Dr. Serdar Atav (DSN) are preparing a paper on health policy. Currently three faculty from DSON work with three faculty from SSIE on funded research projects. Further development of these relationships are beginning steps in developing an ORC.

II. Future Directions

a. Dr. Mary Beth Curtin, Assistant Vice President for Research, communicated the ACRS recommendations for the KCNR following the 2013 Annual Report. It was recommended that KCNR continue with the goal of reconstituting its mission around a specific theme. Research faculty meetings were held in October and December 2014 and January 2015 to discuss the Center's mission and specific theme. As a result, “the mission of the Kresge Center for Nursing Research is to advance a culture of transdisciplinary research to improve health outcomes for rural and vulnerable populations” was articulated. Rural populations can be defined by zip codes and other standardized methods. Examples of vulnerable populations include the following: the poor, Medicaid recipients, those with chronic morbidities (e.g. diabetes, obesity, hypertension, heart disease, kidney disease, lung disease), women with little or no prenatal care, smokers, children with asthma, those who lack health insurance, those at high risk for disease, the underserved mentally ill, those in abusive circumstances, the elderly, and children and adults with obesity. Upon review and discussion with Dr. Curtin, her thought was that we are in a transition stage and to continue to work toward an ORC as stipulated in the Call for New Centers (March, 2015).

Faculty will continue to discuss and work towards new ORC requirements and in the meantime will use the $2000.00 to help teams develop. Currently there are 5-6 teams developing and/or preparing research proposals for NIH and other funding. The team that has been developed for the longest period of time and collaboration is the smoking ITURP team headed by Dr. Gerri Britton, an Assistant Professor. On the team are two Professors from other departments, Dr. Gary James from Behavioral Anthropology, and Dr. Steven Lynn from Psychology. Dr. Britton is planning to submit an R15 that is very appropriate with her strong student involvement at various levels, including three doctoral students. The team is also planning a grant proposal to the March of Dimes in May.

Another research team is an interdisciplinary group comprised of two DSON Assistant Professors (Y. Johnston, R. Darling), one Associate Professor(S. Terwilliger), one PhD student N. Shamsalizadeh), one Assistant Professor from SSIE (N. Sabounchi) and Dr. Pat DiLorenzo (Psychology) who serves as a consultant to the group. An R21 is in its initial preparation and deals with obesity and systems science.

Dr. Judy Quaranta (DSN) is preparing a U34 grant with Social Work (CCPA), Education, and Geography faculty that will focus on asthma in school children. She has submitted a TAE application with interdisciplinary colleagues. (Feb. 2015).

Dr. Serdar Atav(DSON) is beginning to work with Dr. Nasim Sabounchi (SSIE) and anticipates
preparing a research proposal in relation to health policy.

Dr. Nicole Rouhana (DSON) is beginning to organize a team that focuses on Women's Health.

Dr. Nina Flanagan, a new Assistant Professor, is talking with other faculty in relation to research in the elderly. She has submitted a TAE application with Social Work (Feb. 2015).

A new ORC can evolve from these teams. It will take time to develop the leadership of a team and a faculty promotion to Professor for a new ORC. Another option is the hiring of a new Professor.

The current number of full-time tenured track Professors in DSON is four (the Dean, the Associate Dean, Director of the PhD program, and the Endowed Chair of Community Health.) There are six faculty in tenured Associate Professor tracks and nine in tenured Assistant Professor tracks. Some Associate Professor faculty are involved in grant/research activities. Those at Assistant Professor rank are involved in research teams with interdisciplinary faculty are part of the teams.

Next year an application will be submitted for a Graduate Assistant to work with a research team(s).

b. Faculty will continue to meet with DSON and University Research administration to discuss anticipated non-budgetary and budgetary needs/resources as we work toward an ORC.
1. Center Personnel
   a. Ann H. Myers, ScD, RN, Interim Director, 25%
   b. Neda Shamsalizadeh, PhD student, Graduate Assistant
   c. N/A

2. Center Productivity During Reporting Period
a. List all center-related publications (or in press).


**Kresge Center Productivity 2014**

**Journal Publications: In Press**

James, G.D., & Murnock, C.G. (in press). Denial is associated with higher ambulatory blood pressure across the menstrual cycle. *Annals Of Human Biology*.


**Accepted for publication**

Baniak, L. Pierce, C., Heister, E., & McLeod, K. (2014). Calf muscle pump stimulation as a means to reduce symptoms of fibromyalgia syndrome. *Biological Research for Nursing*. *(Accepted for online publication prior to print).*

Flanagan, N & Spencer, G. (2014). Delirium in Post Acute Care: Implications for the Rehabilitation team (accepted for publication) in *Topics in Geriatric Rehabilitation*.

**Book/book chapter publication**


Kresge Center Productivity 2014
Book/book chapter publication in press


b. List all major presentations directly related to center activity.


Fronczek, A. (2014, May). The Lived Experience of Primary Family Caregivers for Persons with Head
and Neck Cancer: A Qualitative Study. Podium Presentation. ONS 39th Annual Congress , Research Interest Group (SIG), Anaheim, CA.


Johnston, Y. (2014, September). Building Brighter Futures for Children in Broome County: A Report from the Broome County Community Health Assessment. Building Brighter Futures for Broome Executive Committee Meeting, Columbus School, Binghamton, NY.

Johnston, Y. (2014, July). Building Brighter Futures for Children in Broome County: A Report from the Broome County Community Health Assessment. Building Brighter Futures for Broome Committee Meeting, Lourdes Youth Services, Binghamton, NY.


Quaranta, J.E. (2014, October). Students and Asthma Windsor Superintendent’s Conference Day
Windsor, New York, Session Presenter.


Quaranta, J.E. (2014, October). Children and Chronic Illness, Nursing 522, Decker School of Nursing Guest Lecturer, Binghamton University, Binghamton, New York.


c. List all symposia, meetings, and lectures or lecture series directly related to center activity.

Green Bag Research Lunches for 2014

Feb. 10, 2014 Dr. Verlyn Warrington, MD, Director of Bariatric Medicine, Guthrie Weight Loss Center presents “Bariatric Medicine: From Practice to Research”

Feb. 25, 2014 Fran Srnka-Debnar, Clinical Associate Professor, PhD candidate, DSON, presents “Barriers and Facilitators for Success in the Baccalaureate Nursing Program.”

Mar. 10, 2014 Saba Al-Sayouri, Mohammad Khasawneh Ph.D., Sangwon Yoon Ph.D., and Chun-An Chou Ph.D., SSIE, Binghamton University, present, Predictive Analytics of Hospital Readmissions: A Case Study of Community Hospital
**Mar. 24, 2014** Karen J. Feltham, RN, CNM, PhD Doctoral student, presents “The Effect of Legislation Change on Barriers to Midwifery Practice in New York State”

**March 31, 2014** Dr. Kent A. Corso, President of NCR Behavioral Health, LLC, Adjunct Associate Professor of Family Medicine at F. Edward Hebert School of Medicine at Uniformed Services University of Health Sciences presents, “Living and Working with Veterans, Military Members, and their Families: Culturally Relevant Approaches”

**Apr. 7, 2014** Tim Rice, GNP, and Donna Hogan, FNP, PhD, DSON, present "Managing Hemodynamic Allostatis in Community-based Elderly: A call for individualizing care"

**Apr. 28, 2014** Dr. Lena Begdach, Research Assistant Professor, Health and Wellness, DSON, presents, “Transgenerational Effect of Maternal Diet and Lifestyle.”

**May 5, 2014** Dr. Pat Grust, RN, PhD, Visiting Assistant Professor of Nursing, Hartwick College, presents, “A study of the Relationship of Incivility to Faculty Satisfaction and Persistence in Nursing Education.”

**September 15, 2014**
Dr. Yvonne Johnston, DSON, “Putting the NYS Prevention Agenda into Action: The Broome County Community Health Assessment & Community Health Improvement Plan 2013-2017.”

**September 29, 2014**
Dr. Richard Mattson, Psychology Department, BU, “Methodological and Statistical Advances in the Study of Intimate Partner Violence.”

**October 13, 2014**
Dr. Per Stromhaug, Assistant Vice President for Innovation and Economic Development, BU, "Entrepreneurship at BU."

**November 10, 2014**
Dr. Nina Flanagan, DSON, “The Rural Family Assessment in Detection of Delirium in Older Adults,” plus, an update on Beers Criteria.

**November 24, 2014**
Dr. Zhanpeng Jin, Electrical and Computer Engineering Departments, BU, “Mobile and Wearable Computing in Smart Health and Assisted Living.”

**d. List other related activities of the center**
The KCNR participated in the DNP Accreditation process in September, 2014.

3. **Current Sources of Support/Space**
   a. **List proposals submitted and grants awarded to participating faculty credited to the center during the reporting period (including sponsor name and amounts).**

<table>
<thead>
<tr>
<th></th>
<th>Amount requested</th>
<th>Amount received</th>
</tr>
</thead>
<tbody>
<tr>
<td>Developmental Adversity, the Adversity Phenotype, and Stress Reactivity. NIH F30 GRANT 11798660 07/01/2015-06/30/2018 Dr. Anne Farbman, P.I.</td>
<td></td>
<td>$143, 028</td>
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<tr>
<td>Project Description</td>
<td>Funding Information</td>
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<td>------------------------------------------------------------------------------------</td>
<td>-------------------------------------------------------------------------------------</td>
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<tr>
<td>Investigator/Mentor Gary D James</td>
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<tr>
<td>Walking for heart health in rural women. Funded by Delaware County Rural Healthcare</td>
<td>$10,000/year $10,000/year</td>
<td></td>
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<tr>
<td>Alliance (RHA), Dr. Stewart Fahs, &amp; Elisabeth Marigiano</td>
<td></td>
<td></td>
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<tr>
<td>Heart health in Delaware County, BU Foundation. Sep 1, 2013 to March 31, 2014.</td>
<td>$3,500/year $3,500/year</td>
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<tr>
<td>Dr. Stewart Fahs</td>
<td></td>
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<tr>
<td>Performance Monitoring Data Entry System (PMDES), CDC / New York State ($31,787).</td>
<td>$31,787/ year</td>
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<tr>
<td>Program Evaluator. Broome County Partnership to Improve Community Health.</td>
<td>not funded</td>
<td></td>
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<tr>
<td>Partnerships to Improve Community Health (PICH) [CDC-RFA-DP14-1417], Centers</td>
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<tr>
<td>for Disease Control &amp; Prevention, Atlanta, GA. Approved., Johnston, Y. 8/14</td>
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<tr>
<td>Regional Economic Development Council of the Southern Tier Telemedicine and Mobile.</td>
<td>$1,666,163 (Funding pending) $185,292 (BU back funded)</td>
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<tr>
<td>Health Care Technology Fund. <em>Southern Tier Telemedicine and Mobile Health Research, Development and Training Center.</em></td>
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<tr>
<td>Co-PI’s: Khasawneh, M., &amp; Fronczek, A.</td>
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<tr>
<td>Evaluate the Student Safety Officer Program. Funding from the Binghamton University</td>
<td>$11,945 total for two years</td>
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<tr>
<td>University President’s Office: Fall, 2014-Fall, 2016</td>
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<tr>
<td>Seibold-Simpson, S.M.</td>
<td></td>
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<tr>
<td>Minority Stress and Healthcare Utilization Among Same-Sex Families with Children.</td>
<td>$275,000 total for 2 years</td>
<td></td>
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<tr>
<td>NIH R21, Submitted 2/2014</td>
<td>Not funded</td>
<td></td>
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<tr>
<td>Seibold-Simpson, S.M.</td>
<td></td>
<td></td>
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<tr>
<td>Improving Community Maternal-Fetal Outcomes Through Nurse-Midwifery Education,</td>
<td>Not funded</td>
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<tr>
<td>OPEN SUNY Proposal</td>
<td></td>
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<tr>
<td>Rouhana, N.</td>
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<tr>
<td>The State of New York/United University Professional Development and Quality of</td>
<td>Not funded</td>
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<tr>
<td>Working Life Award. Grant received to develop full professional potential 2014</td>
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<tr>
<td>Rouhana, N.</td>
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<tr>
<td>Behavioral Health Workforce Education and Training for Professionals. HRSA/SAMHSA,</td>
<td>$600,000</td>
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<td>($600,000; 2014)</td>
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<tr>
<td>PI: Mary Muscari</td>
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<tr>
<td>Psychiatric Nurse Practitioners &amp; Primary Care. SUNY High Needs Grant. ($80,000;</td>
<td>$80,000</td>
<td></td>
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<td>2014)</td>
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<tr>
<td>PI: Mary Muscari</td>
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<tr>
<td>“Community Health Nursing Expansion Grant”, Year 09 – No Cost Extension (July</td>
<td>$958,912 $958,912</td>
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<td>2014-2015), Division of Nursing, Department of Health and Human Services,</td>
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<tr>
<td>Spencer, Gale</td>
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</table>

a. (continued) An additional source of support has been received from The Research Foundation of SUNY at Binghamton University in the amount of $2000.00 for development of research teams with a new focus. Internal support for infrastructure (computers, printers, copy...
machines and telephone lines) comes from the DSON.

b. The KCNR alerts faculty to requests for proposal, provides opportunities for discussion of ideas, proposals, assists in obtaining literature and references. A project has advanced that will organize information needed for grants in a folder on the “S” drive for all faculty.

c. DSON provides the part-time salary for the Interim Director and traineeship funds the doctoral student Graduate Assistant. In 2014-2015 the allocation from the Kresge Endowment was $2,214.93. The 2015-2016 allocation will be announced July 1, 2015 and we anticipate approximately the same amount.

d. The KCNR occupies space on the 3rd floor of the DSON building. It is comprised of an entry space for the Graduate Assistant and small meeting area, two faculty offices, a small conference room used for classes and meetings, a room with kitchen facilities on one end and a study area for students on the other end.

4. New Budget Request

a. A request for funding of a Graduate Assistant is being made to work with a research team or teams. Several research teams are working and will need support for continuation in the preparation of extramural grants. The $2000.00 provided this past June 2014-June 2015 is being used to support new research teams as described earlier in this report.

b. As we receive research grant funding, the indirect funds and faculty support would reduce reliance on internal support.