

## Resendes Leadership Statement: CUR Treasurer

My successful leadership trajectory over the fifteen years I have spent in academia is a direct result of the skills I have gained by intentionally progressing through various positions within the Council on Undergraduate Research (CUR). As a new faculty member at Westminster College, I had a fiercely supportive mentor in Sandra Webster, who immediately encouraged me to get involved in CUR. As such, I have served as a Biology Division Councilor (Representative) since I was a new Assistant Professor. Within the division, I built my experience in CUR programing (student travel awards), CUR processes (as secretary and then chair) and most importantly in **mentorship**. With each roll transition I supported the work and growth of the new councilors who stepped in behind me, to ensure both the continued success of the division's work, but also to lift up the next set of new CUR leaders. My proudest accomplishment as CUR Biology Division chair was the support and resources I was able to provide to the development of the MIRIC (Mentoring Integration of Research into the Curriculum) program. This initiative has been successful due to a combination of **evidenced-based decision making** (identifying a gap/need as well as assessment-based revisions), the passion and **collaboration** of our team, and the ongoing training and involvement of new individuals in the program to ensure the ongoing effectiveness of MIRIC. This last piece was especially important as its leaders stepped into new roles, including my transition to the Executive Board (Board of Directors).

In 2017 I began my first of two terms on the CUR Executive Board. Contributing to the management of a national organization at this level helped me to gain key experience in **strategic planning and foresight**. In developing the most recent CUR strategic plan, I championed the areas of accountability and sustainability, and mechanisms to build CUR as the national leader for undergraduate research, rethinking modes and models of resource delivery to support a diverse faculty. This process involved working **collaboratively** with Executive Board members (representing various background as faculty, administrators and from non-profits), as well as **listening** to council representatives and other CUR members. As a board member, I also had the opportunity to engage more closely with the budget and current treasurer to build an understanding of CUR operations at a higher level. Yet, of all the experience I have gained through CUR leadership it is the passion I discovered for the practice of foresight, the incorporation of environmental scanning for external drivers of change into CUR planning, that continues to drive me to pursue opportunities to shape the potential of this organization. My foresight work began first under the leadership of Ruth Palmer, then I transitioned into the role of chair of the Foresight Board Working Group (Foresight Guidance And Resource Development Advisory Group), training and guiding this team to prepare CUR members and leaders to become strategic thinkers that mold and develop the best interests of CUR into the future. In sum, my various roles at CUR over the past decade have molded me into a **passionate equipped leader** with skills in futures thinking, collaborative design and working with various constituencies to build feedback and a wide range of ideas into single important vision.

I credit the training and support networks I developed at CUR for my ability to serve as an effective leader at my home institution as well. For seven years I served as Westminster's Director of Undergraduate Research, where I tied together the knowledge gained through my time in CUR with my experiences as chair of the honors program and assessment committees. As a new Director of Undergraduate Research, I began with **analysis** of our budgets to redefine and expand the programs offered to support undergraduate research and creative activity across campus. This process involved diversifying grant programs and funding streams, developing an in-house summer undergraduate research program, expanding workshops and trainings for students, centralizing resources, building program awareness, using undergraduate research as a recruitment tool, and implementing a mechanism to track course based undergraduate research. Development and application of this plan involved working **collaboratively** with a wide variety of individuals across campus including faculty, department chairs, librarians, information services, student affairs, the business office, marketing, the registrar, admissions, professional development center and alumni relations. Furthermore, this position included leading the undergraduate research and advisory council, comprised of faculty, staff and student members. The integration of voices and team collaboration with this group was key in my ability to successfully implement and grow our on-campus research and creative arts celebration (URAC), making it a true representation of the college's scholarly community. I owe these successes to the confidence and knowledge I gained at CUR.

Most recently, the leadership and organization skills I learned through internal and external undergraduate research leadership roles have helped me to effectively transition into my newest position as Associate Dean of Assessment and the First Year Experience. **Together, my leadership path at both Westminster College and CUR have developed my skills in visioning, advocacy, collaboration, budgeting, and assessment in the context of undergraduate research, and I look forward to the potential opportunity to employ these strengths at the highest level of CUR leadership in the role Treasure and through the Presidency positions.**

## **Karen Kay Resendes Ph.D.**

Westminster College  
New Wilmington, PA 16172 USA  
Office: 724-946-7211  
Cell: 858-531-5453  
resendkk@westminster.edu

### **Education**

#### **Brown University, Providence, RI.**

Ph.D., Molecular Biology, Cell Biology, and Biochemistry, 2006.

#### **College of William and Mary, Williamsburg, VA.**

B.S. *cum laude*, Biology, 1999.

### **Administrative Experience**

#### **2023- Present**

##### **Associate Dean of Assessment and the First Year Experience, Westminster College**

- Works with academic division/school chairs and the Outcomes Assessment Advisory Committee to facilitate program assessment efforts, including program competencies, program assessment plan, yearly program assessment report, and academic program review.
- Provides support for accreditation activities, including coordination with Middle States liaisons and visitors; facilitation of reports for and requests to Middle States and other accrediting bodies.
- Oversees all aspects of the Academic First Year Experience including; supervising faculty recruitment to teach courses in the First-Year Program; design of course content, implementation of summer reading processes; and assessment activities to improve learning for first-year students, focusing on the equity of success outcomes for all sub-populations of students.
- Serves as direct report and supervisor for the offices of Undergraduate Research, Global Education, All-College Honors Program, and the Faculty Development Officer.

#### **2016- 2023**

##### **Director, Drinko Center for Undergraduate Research (2020-2023), Co-Director (2016-2020) Westminster College**

- Founded and maintain the college's first Summer Undergraduate Research Fellowship Program, supporting an increasing number of undergraduates and faculty from across campus annually.
- Managed and expanded research and travel grant program providing financial support to 100 students (10% of population) from a variety of majors and disciplines each year.
- Oversaw the Undergraduate Research and Arts Celebration involving 300-400 student participants (25-35% of population) each spring.
- Collaborated with various academic departments and student support offices across campus to deliver student training and workshops in key career skills tied to research.
- Supported admissions through participation in existing events and developing prospective student sessions and marketing materials related to undergraduate research.
- Partnered with the registrar to initiate and continue ongoing tracking of research in the classroom through creation of a process to designate courses as "research and scholarship".
- Developed and maintained a comprehensive assessment plan to track benefits of all undergraduate research-based programming and allow for ongoing adjustments to enhance and improve outcomes.
- Initiated and designed an overhaul to the outward facing undergraduate research website and collaborated with library and information services to build an internal site to provide comprehensive student and faculty resources.
- Managed multiple accounts with a total annual budget of \$75,000-90,000.

#### **2017- 2023**

##### **Executive Board Member, Council on Undergraduate Research (CUR)**

- Lead the foresight planning working group, performing environment scanning and scenario planning to identify drivers of change in higher education to develop foresight planning for the organization.
- Contributed to development of a new multi- year strategic plan, including updating of the organization's mission, vision, and key goals, creating metrics, and aligning programming and offerings to the new plan.
- Participated in the process of recruiting and hiring a new executive office for the organization.

- 2022-2023**      **Vice Chair of the Faculty and Associate Trustee, Westminster College**
- Collaborated with Faculty Chair, Vice President of Academic Affairs and President of the College to support and serve the faculty of the college.
  - Assisted in the development and running of all-college faculty meetings.
  - Served as Chair of the college-wide Nominating Committee developing ballots and performing a thorough systematic assessment of faculty service workload, committee structure and effectiveness.
- 2017-2022**      **Lead Representative, CUR Transformations Project, Westminster College Institutional Team**
- Directed the process of a backwards designed, scaffolded curriculum revision to incorporate undergraduate research into the Biology major.
  - Coordinated the development of an assessment plan for the Biology department to assess outcomes and skills within multiple stages of the new curriculum.
  - Organized multi-day site visits for external consultants.
  - Served as a resource for the Biology and Psychology department teams and liaison for the grant principal investigators and consultant teams.
- 2017- 2020**      **Chair, CUR Biology Division**
- Managed and organized annual meetings of a team of twenty-four councilor representatives from across the country.
  - Coordinated division assessment activities and compiled biannual reports.
  - Supported the development and expansion of an initiative to mentor faculty who are integrating research into their courses.
  - Collaborated with colleagues to deliver several award programs to support students and faculty performing undergraduate research, transitioning to meet new needs in response to COVID.
  - Managed annual divisional budget of \$2,500-3,000.
- 2014- 2020**      **Co-PI, Westminster College IQ:STEM Noyce Teacher Scholarship Program**
- Developed program design and submitted grant for NSF funding.
  - Coordinated student scholar recruitment and selection processes.
  - Organized monthly professional development for student participants and mentor faculty members.
  - Coordinated assessment and scheduling of a week-long conference for pre-service teachers and current educators from partner high-needs school districts.

## Other Professional Experience

- 2009- Present:**      Professor of Biology (2021-), Associate Professor (2015-2021), Molecular Biology Program Coordinator (2016-2018), Assistant Professor (2009-2015), Westminster College
- 2007-2009:**      Lecturer, Department of Biology, San Diego State University
- 2006-2009:**      Postdoctoral Fellow University of California San Diego/San Diego State University IRACDA (Institutional Research and Academic Career Development Award, NIH)  
Postdoctoral Research with Dr. Douglass Forbes, University of California San Diego
- 1999-2006:**      Graduate Student with Dr. Alan Rosmarin  
Department of Molecular Biology, Cell Biology and Biochemistry, Brown University
- 1998-1999:**      Undergraduate Research with Dr. Diane Shakes  
Department of Biology, College of William and Mary
- 1998:**      Undergraduate Summer Research Internship with Dr. Andy Golden  
Frederick Cancer Research and Development Center, National Cancer Institute

## Selected Publications (\* indicates undergraduate author)

- E Sandquist, B Schofield, K Taylor, A Engel, J Liu, A Putzke, L Sagwan-Barkdoll, S Walsh, T Buchanan, L Barton, **KK Resendes**, and MJ Wolyniak, Community of Practice for CURE Development: The MIRIC (Mentoring the Integration of Research into the Classroom) Network. *Accepted, awaiting issue assignment at the Journal of College Science Teaching*

- **Resendes KK**, A Model for a Data Analysis and Literature Intensive Undergraduate Course. *Journal of College Science Teaching* 2022, May/June (Volume 51, Issue 5).
- JA Morrison, JF Barthell, A Boettcher, D Bowne, C Nixon, **KK Resendes** and J Strauss-Soukop Recognizing and Valuing the Mentoring of Undergraduate Research, Scholarship, and Creative Activity by Faculty Members: Workload, Tenure, Promotion, and Award Systems. CUR (Council on Undergraduate Research) White Paper No. 2, 2020.
- Higby, K\*, Bischak M\*, Campbell, C\*, Anderson, R\*, Broskin, S\*, Foltz, L\*, Koper, J\*, Nickle, A\* **Resendes K.** 5-Fluorouracil disrupts nuclear export and nuclear pore permeability in a calcium dependent manner. *Apoptosis* 2017, 22: 393. doi:10.1007/s10495-016-1338-y
- Robertson, K, Balczon, J, Corrette-Bennett, J, Duerr, K, **Resendes K.** Integrating research across a biology curriculum to strengthen the senior capstone research experience. *CUR Quarterly on the Web* Fall 2016.
- **Resendes, KK** Using cellular stress of HeLa cells as a mechanism to introduce first year students to the scientific method, primary literature, protein expression and scientific writing. *Biochemistry and Molecular Biology Education* 2015, 43(2) 110–120. doi: 10.1002/bmb.20852
- G. Diffendall\* and **KK Resendes** The effect of increased intracellular calcium on the localization of the catabolic subunit of telomerase, hTERT, in HeLa cells. *Journal of Student Research* 2015, 4(1) 91-103.
- Balczon, JM, Corrette-Bennett, JC, **Resendes, KK**, Robertson, JC, Robertson, K, Assessment-Driven Revisions of a Research Based Capstone Course Curriculum. *CUR Quarterly* 2014, 34(4) 46.
- Cunningham, CN\*, Schmidt CA\*, Schramm, NJ\*, Gaylord, MR and **Resendes KK.** Human TREX2 components PCID2 and Centrin 2, but not ENY2, have distinct functions in protein export and co-localize to the centrosome. *Experimental Cell Research*, 2014, 320:209-218. doi: 10.1016/j.yexcr.2013.11.015

## Selected Leadership and Service

### Council on Undergraduate Research (CUR), Additional Roles:

- **Foresight Guidance And Resource Development Advisory Group**, Committee Chair 2023-2024
- **Faculty Workload, Evaluation, Promotion and Tenure Task Force** Member 2017-2023
- **Biology Division Councilor** 2012-present
- **Co-Coordinator Biology Division Student Travel Awards** 2015-2018
- **Biology Division Secretary** 2012-2016

### Westminster College, Additional Roles:

- **Undergraduate Research Advisory Council (URAC)**  
Chair 2020-2023, Co-Chair 2016-2020, Committee Member, 2010-present  
Undergraduate Research and Arts Celebration Poster Session Co-coordinator 2013-2016
- **Research Professions Advisory Committee (ResPAC)**  
Co-chair 2009-2017, Committee Member 2009-2023  
Developed the committee and initial programming in coordination with other STEM faculty.
- **Outcomes Assessment Advisory Committee (OAAC)** Chair 2019-2021, Secretary 2018
- **Middle States Accreditation Standard V (Educational Effectiveness) Working Group** Member 2019-2021
- **All-College Honors Program Committee** Chair 2017-2019, Committee Member 2012-2016

### ASBMB (American Society for Biochemistry and Molecular Biology)

- **Annual Meeting Undergraduate Student Poster Competition** Judge, 2012, 2017-2019
- **Westminster College ASBMB Student Chapter** Initiated Chapter Formation, Faculty Advisor 2016-2019

## Selected Meetings, Abstracts and Presentations (\* indicates undergraduate author)

### Spotlight Talks and Invited Conference Presentations:

- *Spotlight Talk*: Getting Creative with BMB Education Spotlight Session: Using Student Generated Memes to Review Content and Build Class Community. **K. Resendes** ASBMB 2021

- *Keynote Speaker Kent State Salem 2019 Undergraduate Research Conference (URC): Undergraduate Research: A Path for One and All.* **K. Resendes** 2019
- *Educational Minisymposium, Biology Competency for the Classroom and Beyond: A Data Analysis and Literature Intensive Undergraduate Course That Positively Impacts Student Ability and Confidence in Scientific Critical Thinking Skills and Increases Post-graduation Success.* **K. Resendes** ASCB 2019
- *Spotlight Talk: PCID2 influences BRCA1/BARD1 Localization and Centrosome Duplication through its functions in Nuclear Protein and mRNA Export.* **K. Resendes, AH Arrigo\* and AL Arrigo\*** ASCB 2019
- *Spotlight Talk: Effects of a Data Analysis Intensive Course on Student Critical Thinking Skills, Confidence, and Post-Graduation Success* **K. Resendes** ASBMB 2018
- *Panel Presentation: "Foundational Cell Biology Workshop: Making Cell Biology Accessible by All." Subtopic: Using Internet resources in classroom assignments.* **K. Resendes.** ASCB 2013
- *Spotlight Talk: Calcium-mediated regulation of the Ran gradient and karyopherin nuclear transport receptors.* A. Grenet\* (speaker), S. Woodward\* and **K. Resendes** ASBMB 2012

#### Undergraduate Research Focused Presentations, Panels and Workshops:

- *Oral Presentation: Results from the Support of Undergraduate Research Mentoring (SURM) Survey: A National Perspective.* J. Morrison, **K. Resendes**, J. Strauss-Soukup and A. Boettcher. ConnectUR 2023.
- *Panel Presentation: Addressing the Volatility and Complexity of Changes in Today's Higher Education: A Focus on Strategic Foresight's Contribution to Crafting a Sustainable Undergraduate Research Agenda.* R. Palmer, B. Cunningham, B. Tiwari, M. Iacullo-Bird, **K. Resendes** ConnectUR 2022.
- *Individualized Training Institute for Webster University Plenary Speaker, Panelist and Workshop Coordinator: Why Undergraduate Research, Scholarship and Creative Activities (URSCA): Defining URSCA, Integrating URSCA into your courses, and best practices in mentoring for URSCA.* A. Boettcher, **K. Resendes** and S. Pierszalowski 2021
- *Panel Presentation: Support of Undergraduate Research Mentoring: Connecting Institutional Practices with Student and Faculty Outcomes.* A. Boettcher, J. Morrison, J. Kinze, **K. Resendes**, J. Strauss-Sukup, and C. Nixon AAC&U 2021
- *Professional Development Session: Navigating a Changing Landscape: Developing and Evolving a Research Program Involving Undergraduates.* **K. Resendes**, M. Wolyniak and L. Barton ASCB 2020
- *Workshop Coordinator: The Nuts and Bolts of Effective Course-Based Undergraduate Research Experience (CURE) Development* M. Wolyniak, L. Barton and **K. Resendes** CUR 2020
- *Panel Presentation: Undergraduate Research Experiences Embedded in Courses and Scaffolded into Curricula: Addressing Equity and Culture.* L. Currie, J. DeCosmo, I. Macinnes, D. Chamely-Wiik, **K. Resendes**, J. Osborn AAC&U 2020
- *Workshop Coordinator: ASBMB Integrating Research into the Classroom: Developing an Engaging CURE With Big Data.* M Wolyniak, R Crowder, and **K. Resendes** ASBMB 2019
- *Presentation: Teaching Skills in Scientific Literacy and Data Analysis at the Introductory and Advanced Levels: Building Research Skills Beyond the Bench* **K. Resendes** CUR 2018
- *Presentation Panel: Models for Integration of Mentorship into Workload, Evaluation, and Tenure and Promotion* J. Morrison, J. Osborn, **K. Resendes**, J. Strauss-Soukup, A. Boettcher CUR 2018
- *Presentation: Building Research into a Biology Curriculum as a Scaffold for Success in Capstone.* K. Robertson and **K. Resendes** CUR 2016

## Mentoring Experience

### Westminster College

*Undergraduate Honors Students, 14 Students, 2010-present*

- Lauren Turturice Nevan Schwab, Noah Pollio, Julia Strobel, Nina Silver, Taylor Gatesman, Alexis Arrigo, Abigail Arrigo, Audrey Nickle, Regino Flores, Melissa Bischak, Kelly Higby, Nathaniel Schramm, Casey Schmidt presented at national meetings, 12 continued education at the MS, PhD, MD, DO, PA, or JD level.

*Undergraduate Independent Study / Capstone Research, 37 Students, 2010-present*

- Emma Rudolph, Jordan Fore, Michael Petronzio, Nicholas Pasquarello, Emma Stewart, Emily Lamark, Emilee Sporzarski, Rachael Woessner, Eve Terwiliger, Emily D'Amico, Carli Sebest, Jarrett Koper, Meredith Mishler, Christy Campbell, Rebecca Anderson, PJ Woods, Sarah Broskin, Gretchen Diffendel, Brittany Colosimo, David Osa, Christina Volosko, Corey Cunningham, Amy Steinheiser, Jeff Finafrock, Lauren Foltz, Kelly Cholewa, Ashely Grenet, Kaci Batzel, Shane Priddy, Stephanie Woodward, Jasmine Grady, Jordan Richardson, Chase Saraiva, Robin McConahy, Kevin Mroz, Jordan Zabo and Bryan Yost - various pedagogical or molecular and cell biology projects focused on nuclear export. 24 students presented at national meetings.

### Brown University, Lab of Dr. Alan Rosmarin

*Leadership Alliance Program Undergraduate Fellows Courtnei Newsome and Kristina Harrell, 2003-2004*