

**PROMOTION REPORT - INDIVIDUAL**  
(September 1, 2010 - September 30, 2015)

Candidate for promotion to: **Full Professor**  
Submission date of last successful promotion: **Fall 2010**

**I. GENERAL INFORMATION**

<b>Faculty Name:</b> Barbara Bennie	<b>Department:</b> Mathematics
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**Education**

Ph D, University of Minnesota, Statistics. (2006).

BA, Bethel University, Mathematics, Secondary Education. (2001).

**II. NARRATIVES**

**A. Combined Teaching, Scholarship, and Service Narrative**

[Download File \(bbennie/promotion/Promotion Narrative \(7\) v3-3.docx\)](#)

**III. TEACHING**

**A. Teaching Schedule**

**Spring 2015**

Course & Section	Title	New Course Prep.	New Format for Existing Course	Enrollment	Number of Credit Hours	Delivery Mode
CEI - Cooperative Education and Internships 450-29	Cooperative Educ Internship	No		3	2	
MTH - Mathematics 145-20	Elem Statistics	No		37	4	
<a href="#">Download File (bbennie/schteach/MATH 145 Spring 2015 Syllabus-1.pdf)</a>						
MTH - Mathematics 145-22	Elem Statistics	No		34	4	

**Fall 2014**

Course & Section	Title	New Course Prep.	New Format for Existing Course	Enrollment	Number of Credit Hours	Delivery Mode
CEI - Cooperative Education and Internships 450-19	Cooperative Educ Internship	No		2	2	
MTH - Mathematics 443-1	Categorical Data Analysis	No		14	3	
<a href="#">Download File (bbennie/schteach/MTH 443 Fall 2014 Syllabus-1.pdf)</a>						

**Spring 2014**

Course & Section	Title	New Course Prep.	New Format for Existing Course	Enrollment	Number of Credit Hours	Delivery Mode
MTH - Mathematics 145-13	Elem Statistics	No		40	4	
MTH - Mathematics 145-15	Elem Statistics	No		39	4	

**Fall 2013**

Course & Section	Title	New Course Prep.	New Format for Existing Course	Enrollment	Number of Credit Hours	Delivery Mode
MTH - Mathematics 145-07	Elem Statistics	No		38	4	
MTH - Mathematics 145-08	Elem Statistics	No		41	4	
MTH - Mathematics 441-01	Math Statistics I	Yes		16	3	
<a href="#">Download File (bbennie/schteach/MTH 441 Fall 2013 Syllabus-1.pdf)</a>						

**Spring 2013**

Course & Section	Title	New Course Prep.	New Format for Existing Course	Enrollment	Number of Credit Hours	Delivery Mode
MTH - Mathematics 145-10	Elem Statistics	No		38	4	
<a href="#">Download File (bbennie/schteach/MATH 145 Spring 2013 Syllabus-1.pdf)</a>						

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MTH - Mathematics 145-11	Elem Statistics	No		38	4	
MTH - Mathematics 245-01	Probability & Statistics	No		41	4	

[Download File \(bbennie/schteach/MATH 245 Spring 2013 Syllabus-2.pdf\)](#)

### Fall 2012

Course & Section	Title	New Course Prep.	New Format for Existing Course	Enrollment	Number of Credit Hours	Delivery Mode
MTH - Mathematics 145-10	Elem Statistics	No		40	4	

[Download File \(bbennie/schteach/MATH 145 Fall 2012 Syllabus-1.pdf\)](#)

MTH - Mathematics 145-12	Elem Statistics	No		39	4	
MTH - Mathematics 443-1	Categorical Data Analysis	No		3	3	

[Download File \(bbennie/schteach/MTH 443 Fall 2012 Syllabus-1.pdf\)](#)

### Spring 2012

Course & Section	Title	New Course Prep.	New Format for Existing Course	Enrollment	Number of Credit Hours	Delivery Mode
MTH - Mathematics 145-07	Elem Statistics	No		38	4	
MTH - Mathematics 145-10	Elem Statistics	No		40	4	
MTH - Mathematics 447-01	Nonparametric Stat	No		10	3	

[Download File \(bbennie/schteach/MTH 447 Spring 2012 Syllabus-1.pdf\)](#)

### Fall 2011

Course & Section	Title	New Course Prep.	New Format for Existing Course	Enrollment	Number of Credit Hours	Delivery Mode
MTH - Mathematics 145-17	Elem Statistics	No		38	4	
MTH - Mathematics 145-20	Elem Statistics	No		41	4	
MTH - Mathematics 445-1	Correltn Rgres Ana	Yes		9	3	

[Download File \(bbennie/schteach/MTH 445 Fall 2011 Syllabus-1.doc\)](#)

### Spring 2011

Course & Section	Title	New Course Prep.	New Format for Existing Course	Enrollment	Number of Credit Hours	Delivery Mode
MTH - Mathematics 145-21	Elem Statistics	No		38	4	

[Download File \(bbennie/schteach/MTH 145 Spring 2011 Syllabus-1.pdf\)](#)

MTH - Mathematics 145-22	Elem Statistics	No		38	4	
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### Fall 2010

Course & Section	Title	New Course Prep.	New Format for Existing Course	Enrollment	Number of Credit Hours	Delivery Mode
MTH - Mathematics 145-10	Elem Statistics	No		40	4	
MTH - Mathematics 145-5	Elem Statistics	No		39	4	
MTH - Mathematics 443-1	Categorical Data Analysis	Yes		3	3	

[Download File \(bennie.barb/schteach/MTH 443 Fall 2010 Syllabus-1.doc\)](#)

#### Non-Credit Instruction Taught

Workshop, WI Department of Health Services, 20 participants, Professional. (January 2015).

Workshop, Ashley Furniture, 12 participants, Professional. (November 2014).

#### Grants

Baumann, Douglas (Co-Principal), Reineke, David M (Co-Principal), Morris, Samuel (Co-Principal), Bennie, Barbara (Supporting), Bingham, Melissa (Supporting), Young, Judy (Supporting), "Innovation and Consistency in MTH 145: Elementary Statistics"(Funded), UW-L Grant, \$15000. (July 1, 2014 - June 30, 2015).

[Download File \(dbaumann/congrant\\_teaching/MTH\\_145\\_CRG\\_Report\\_07Feb14-1.pdf\)](#)

Baumann, Douglas (Principal), Bennie, Barbara (Principal), Eager, Eric (Principal), Peirce Jr, James P (Principal), Sandland, Gregory (Principal), "New Mathematical Biology Minor and Supporting Courses"(Funded), UW-L Grant, \$15000. (July 1, 2014 - June 30, 2015).

[Download File \(dbaumann/congrant\\_teaching/MathBioMinorCRG-1.pdf\)](#)

Bennie, Barbara (Co-Principal), Hulett, Heather A (Co-Principal), "Teaching Innovation Grant. Read & Reflect: Making Statistics Real"(Funded), UW-L Faculty Development Grant, \$2992. (July 2010 - June 2011).

[Download File \(bennie.barb/congrant\\_teaching/Teaching\\_InnovationBennieHulett-1.pdf\)](#)

Wendt, Theodore (Co-Principal), Bennie, Barbara (Co-Principal), "Mathematical Modeling Contests: Recruiting and Preparing Teams and Improving Student Learning Outcomes."(Funded), UW System Grant, \$350. (August 2010 - December 2010).

[Download File \(wendt.theo/congrant\\_teaching/Bennie-Wendt-CDG-1.pdf\)](#)

## B. Additional Teaching Evidence

T1: Dr. David Reineke observed my teaching before I earned tenure and again in Spring 2015. This letter summarizes his observations.

[Download File \(bbennie/promotion/Bennie\\_Teaching - Promo to Full-1.pdf\)](#)

T2: This is a summary, reflection, and action plan tied to assessment data collected in MTH 441.

[Download File \(bbennie/promotion/MTH\\_441\\_Assessment\\_Results-1.pdf\)](#)

T3: An initial draft for a Master's program in Statistics that I authored in April 2013.

[Download File \(bbennie/promotion/Stats\\_master\\_plan-1.pdf\)](#)

## IV. SCHOLARSHIP

### A. Intellectual Contributions

#### Published and Accepted

##### 1. Conference Proceeding

Sallmen, S. M., Bennie, B. (2010). *Investigating Student Views of Relevancy in Introductory Astronomy*. Green Bay, WI: Proceedings of 20th Annual Wisconsin Space Conference (WSGC). (Published: December 2010).

Type of Review	Acceptance Rate	Author Workload	Author Ordering	Audience of Circulation
None	%	Sallmen, Shauna M.-90% Bennie, Barbara-10%	First author major contributor	State

[Download File \(sallmen.shau/intellcont/WSGC\\_Proceedings\\_Sallmen-1.pdf\)](#)

##### 2. Journal Article, Academic Journal

Peirce Jr, J. P., Sandland, G., Bennie, B., Haro, R. J. Modeling and analysis of a temperature-driven outbreak of waterfowl disease in the Upper Mississippi River. *To appear in Ecological Modelling*. (Accepted: September 2015).

Type of Review	Acceptance Rate	Author Workload	Author Ordering	Audience of Circulation
Peer-reviewed	%	Peirce Jr, James P. Sandland, Gregory Bennie, Barbara Haro, Roger J.	First author major contributor	International

[Download File \(jpeirce/intellcont/btpaper\\_embedded-1.pdf\)](#)

##### 3. Journal Article, Professional Journal

Trombetta, L., Bennie, B., Goodrick, A., England, R., Broghammer, M., Zinneker, H. (2014). Liver Biopsy Performed During Laparoscopic Cholecystectomy in Patients with Pre-Operative Imaging Evidence of Fatty Liver. *Gundersen Medical Journal*. (Published: October (4th Quarter/Autumn) 2014). <http://www.gundersenhealth.org/upload/docs/Research/MedJournal/Vol8no2-Medical-Journal.pdf>

Type of Review	Acceptance Rate	Author Workload	Author Ordering	Audience of Circulation
Peer-reviewed	%	Trombetta, Leroy-50% Bennie, Barbara-20% Goodrick, Adam-10% England, Ronald-10% Broghammer, Matthew-5% Zinneker, Hans-5%	First author major contributor	

#### Works in Progress

##### 1. Journal Article, Academic Journal

Bennie, B. Strategic Market Games with Random Endowments. *Annals of Finance*. (Submitted: July 20, 2015).

Type of Review	Acceptance Rate	Author Ordering	Audience of Circulation
Peer-reviewed	25%	Bennie, Barbara-100%	

[Download File \(bbennie/intellcont/noncyclic\\_manuscript\\_07-20-15-1.pdf\)](#)

#### Other Scholarly Activities

##### 1. Paper presented at academic conference

Peirce Jr, J. P. (Presenter & Author), Sandland, G. (Co-Author), Bennie, B. (Co-Author), Haro, R. J. (Co-Author), Society for Mathematical Biology, Atlanta, GA, "Predicting the population size of an invasive host during a temperature-driven outbreak of waterfowl disease", [https://www.openconf.org/SMB15/modules/request.php?module=oc\\_program&action=program.php&p=program](https://www.openconf.org/SMB15/modules/request.php?module=oc_program&action=program.php&p=program). (Date Presented: July 1, 2015).

Meeting Type	Scope	Format of Presentation	Published in Proceedings?	Refereed Proceedings?	Invited or Accepted	Published Elsewhere?
	International	Oral Presentation	No			

Sandland, G. (Presenter & Author), Peirce Jr, J. P. (Co-Author), Haro, R. J. (Co-Author), Bennie, B. (Co-Author), American Society of Parasitologists, Omaha, NE, "AN INTRODUCTION TO THE COLLABORATION ON RIVERINE ECOLOGY (CORE) PROGRAM

AND ITS UTILITY AS A MODEL FOR UNDERGRADUATE RESEARCH IN MATHEMATICAL PARASITOLOGY",  
[http://amsocparasit.org/sites/default/files/Program.Final\\_.2015.indexed-v3.pdf](http://amsocparasit.org/sites/default/files/Program.Final_.2015.indexed-v3.pdf), Abstract. (Date Presented: June 26, 2015, Date Accepted: February 20, 2015, Date Submitted: February 15, 2015).

Meeting Type	Scope	Format of Presentation	Published in Proceedings?	Refereed Proceedings?	Invited or Accepted	Published Elsewhere?
	International	Oral Presentation	No		Invited	

Ernie, K. (Presenter & Author), Hofacker, E. (Author Only), Serros, S. (Author Only), Bennie, B. (Author Only), Joint Mathematics Meeting, "Impacting Change in the Common Core Era through a Mathematics Partnership". (Date Presented: January 12, 2015).

Meeting Type	Scope	Format of Presentation	Published in Proceedings?	Refereed Proceedings?	Invited or Accepted	Published Elsewhere?
	National	Oral Presentation				

[Download File \(bbennie/present/1106-k5-212-1.pdf\)](#)

Serros, S. (Presenter & Author), Ernie, K. (Author Only), Hofacker, E. (Author Only), Bennie, B. (Author Only), Joint Mathematics Meetings, "Rich Mathematical Tasks Aligned with Common Core Math Standards". (Date Presented: January 12, 2015).

Meeting Type	Scope	Format of Presentation	Published in Proceedings?	Refereed Proceedings?	Invited or Accepted	Published Elsewhere?
	National	Oral Presentation				

[Download File \(bbennie/present/1106-k5-213-1.pdf\)](#)

Peirce Jr, J. P. (Presenter & Author), Sandland, G., Bennie, B., O'Driscoll, M., Joint Mathematics Meeting, Mathematical Association of America & American Mathematical Society, San Antonio, TX, "Modeling and analysis of a temperature-driven outbreak of waterfowl disease in the Upper Mississippi River", <http://jointmathematicsmeetings.org/jmm>. (Date Presented: January 12, 2015, Date Accepted: August 2014, Date Submitted: August 2014).

Meeting Type	Scope	Format of Presentation	Published in Proceedings?	Refereed Proceedings?	Invited or Accepted	Published Elsewhere?
	National	Oral Presentation	No	No	Invited	

Peirce Jr, J. P. (Presenter & Author), Sandland, G. (Author Only), Bennie, B. (Author Only), Haro, R. J. (Author Only), Ecological Society of America, Sacramento, CA, "Outbreak of waterfowl disease in the Upper Mississippi River with temperature dependent transmission rates", <http://eco.confex.com/eco/2014/webprogram/start.html>. (Date Presented: August 13, 2014).

Meeting Type	Scope	Format of Presentation	Published in Proceedings?	Refereed Proceedings?	Invited or Accepted	Published Elsewhere?
	National	Poster			Accepted	

Bennie, B. (Presenter & Author), Haro, R. J. (Co-Author), Midwest Mathematical Biology Conference, UW-L, La Crosse, "Game theoretic modeling of foraging behaviors of larval caddisflies", <http://www.uwlax.edu/conted/mmmbc/index.html>. (Date Presented: May 17, 2014).

Meeting Type	Scope	Format of Presentation	Published in Proceedings?	Refereed Proceedings?	Invited or Accepted	Published Elsewhere?
	Regional	Poster			Accepted	

[Download File \(bbennie/present/conference\\_poster\\_4-1.pdf\)](#)

Peirce Jr, J. P. (Presenter & Author), Sandland, G. (Co-Author), Bennie, B. (Co-Author), Haro, R. J. (Co-Author), Midwest Mathematical Biology Conference, UW-L, La Crosse, "Outbreak of Waterfowl Disease in the Upper Mississippi River with Temperature Dependent Transmission Rates", <http://www.uwlax.edu/conted/mmmbc/index.html>. (Date Presented: May 17, 2014).

Meeting Type	Scope	Format of Presentation	Published in Proceedings?	Refereed Proceedings?	Invited or Accepted	Published Elsewhere?
	Regional	Poster			Accepted	

Sandland, G., Peirce Jr, J. P., Bennie, B., Haro, R. J., Midwest Mathematical Biology Conference, UW-La Crosse, La Crosse, WI, "Facilitating cross-talk between undergraduates in Biology and Mathematics: lessons from the Collaboration on Riverine Ecology (CORE) program.", <http://www.uwlax.edu/conted/mmmbc/>, Abstract. (Date Presented: May 17, 2014, Date Accepted: April 30, 2014, Date Submitted: April 21, 2014).

Meeting Type	Scope	Format of Presentation	Published in Proceedings?	Refereed Proceedings?	Invited or Accepted	Published Elsewhere?
		Poster	Yes		Accepted	No

Peirce Jr, J. P. (Presenter & Author), Sandland, G. (Co-Author), Bennie, B. (Co-Author), Haro, R. J. (Co-Author), 19th Annual Faculty Research Day, UW-L, La Crosse, "Predicting Population Sizes during an Outbreak of Waterfowl Disease in the Upper Mississippi River Using Temperature Dependent Transmission Rates". (Date Submitted: January 24, 2014).

Meeting Type	Scope	Format of Presentation	Published in Proceedings?	Refereed Proceedings?	Invited or Accepted	Published Elsewhere?
	Local	Oral Presentation				

Weeks, A. (Co-Author/Co-Presenter), Peot, R. (Co-Author/Co-Presenter), Bennie, B., Haro, R. J., Peirce Jr, J. P., Sandland, G., NIMBioS Undergraduate Research Conference at the Interface of Biology and Mathematics, National Institute for Mathematical and Biological Synthesis (NIMBioS), Knoxville, TN, "Assessing the Parasite Manipulation Hypothesis in an Invasive Host (*Bithynia tentaculata*)", [http://www.nimbios.org/education/URC\\_abstracts\\_2013.pdf](http://www.nimbios.org/education/URC_abstracts_2013.pdf), Abstract. (Date Presented: November 17, 2013, Date Accepted: October 11, 2013, Date Submitted: September 25, 2013).

Meeting Type	Scope	Format of Presentation	Published in Proceedings?	Refereed Proceedings?	Invited or Accepted	Published Elsewhere?
	National	Oral Presentation	Yes		Accepted	No

Ziegler, E. (Presenter & Author), Kerswill, S. (Co-Author), Bennie, B., Haro, R. J., Peirce Jr, J. P., Sandland, G., NIMBioS Undergraduate Research Conference at the Interface of Biology and Mathematics, National Institute for Mathematical and Biological Synthesis

(NIMBioS), Knoxville, TN, "Maximizing Reproduction in *Bithynia tentaculata* with a Parasite Infection.", [http://www.nimbios.org/education/URC\\_abstracts\\_2013.pdf](http://www.nimbios.org/education/URC_abstracts_2013.pdf), Abstract. (Date Presented: November 17, 2013, Date Accepted: October 11, 2013, Date Submitted: September 25, 2013).

Meeting Type	Scope	Format of Presentation	Published in Proceedings?	Refereed Proceedings?	Invited or Accepted	Published Elsewhere?
	National	Oral Presentation	Yes		Accepted	No

Weeks, A. (Co-Author/Co-Presenter), Peot, R. (Co-Author/Co-Presenter), Bennie, B., Haro, R. J., Peirce Jr, J. P., Sandland, G., Seven Rivers Undergraduate Research Symposium, Viterbo, La Crosse, WI, "Assessing the role of parasite manipulation on *Bithynia tentaculata*", [http://www.viterbo.edu/uploadedFiles/academics/undergrad\\_research/Abstract%20Book.pdf](http://www.viterbo.edu/uploadedFiles/academics/undergrad_research/Abstract%20Book.pdf), Abstract. (Date Presented: November 8, 2013, Date Accepted: October 25, 2013, Date Submitted: October 22, 2013).

Meeting Type	Scope	Format of Presentation	Published in Proceedings?	Refereed Proceedings?	Invited or Accepted	Published Elsewhere?
	Regional	Oral Presentation	Yes		Accepted	No

Ziegler, E. (Presenter & Author), Kerswill, S. (Co-Author), Sandland, G., Bennie, B. (Co-Author), Haro, R. J. (Co-Author), Peirce Jr, J. P., Seven Rivers Undergraduate Research Symposium, Viterbo, La Crosse, WI, "Maximizing reproduction in *Bithynia tentaculata* with a parasite infection", [http://www.viterbo.edu/uploadedFiles/academics/undergrad\\_research/Abstract%20Book.pdf](http://www.viterbo.edu/uploadedFiles/academics/undergrad_research/Abstract%20Book.pdf), Abstract. (Date Presented: November 8, 2013, Date Accepted: October 25, 2013, Date Submitted: October 22, 2013).

Meeting Type	Scope	Format of Presentation	Published in Proceedings?	Refereed Proceedings?	Invited or Accepted	Published Elsewhere?
	Regional	Oral Presentation	Yes		Accepted	

Kressin, A. J. (Co-Author/Co-Presenter), Frankki, S. (Co-Author/Co-Presenter), Bennie, B. (Co-Author), Haro, R. J. (Co-Author), Peirce Jr, J. P. (Co-Author), Sandland, G. (Co-Author), National Conference on Undergraduate Research, La Crosse, WI, "ASSESSING INFECTION PATTERNS IN NATIVE AND INVASIVE SNAILS EXPOSED TO A LOCAL PARASITE SPECIES", [http://www.cur.org/ncur\\_2013/](http://www.cur.org/ncur_2013/), Abstract. (Date Presented: April 12, 2013).

Meeting Type	Scope	Format of Presentation	Published in Proceedings?	Refereed Proceedings?	Invited or Accepted	Published Elsewhere?
	National	Poster	Yes		Accepted	

Wolf, R. (Co-Author/Co-Presenter), Hines, K. (Co-Author/Co-Presenter), Bennie, B. (Co-Author), Haro, R. J. (Co-Author), Peirce Jr, J. P. (Co-Author), Sandland, G. (Co-Author), National Conference on Undergraduate Research, La Crosse, WI, "EXAMINING UNDERLYING BEHAVIORS OF AN AQUATIC HOST (*BITHYNIA TENTACULATA*) AND A PARASITE (*CYATHOCOTYLE BUSHIENSIS*) BY DIGITALLY TRACKING THE HOSTS' MOVEMENT", [http://www.cur.org/ncur\\_2013/](http://www.cur.org/ncur_2013/), Abstract. (Date Presented: April 11, 2013).

Meeting Type	Scope	Format of Presentation	Published in Proceedings?	Refereed Proceedings?	Invited or Accepted	Published Elsewhere?
	National	Poster	Yes		Accepted	

Frankki, S. (Co-Author/Co-Presenter), Kressin, A. J. (Co-Author/Co-Presenter), Bennie, B. (Co-Author), Haro, R. J. (Co-Author), Peirce Jr, J. P. (Co-Author), Sandland, G. (Co-Author), National Conference on Undergraduate Research, La Crosse, WI, "INVESTIGATING PARASITE TRANSMISSION AMONG NATIVE AND INVASIVE SPECIES IN THE UPPER MISSISSIPPI RIVER", [http://www.cur.org/ncur\\_2013/](http://www.cur.org/ncur_2013/), Abstract. (Date Presented: April 11, 2013).

Meeting Type	Scope	Format of Presentation	Published in Proceedings?	Refereed Proceedings?	Invited or Accepted	Published Elsewhere?
	National	Poster	Yes		Accepted	

Rittenhouse, M. (Presenter & Author), Sandland, G. (Co-Author), Bennie, B. (Co-Author), National Conference on Undergraduate Research, University of Wisconsin - La Crosse, "Assessing the role invasive-host demographics play in transmission of a parasite associated with mortality of migratory waterfowl", [http://www.cur.org/ncur\\_2013/](http://www.cur.org/ncur_2013/), Abstract. (Date Presented: April 11, 2013, Date Accepted: January 30, 2013, Date Submitted: November 15, 2012).

Meeting Type	Scope	Format of Presentation	Published in Proceedings?	Refereed Proceedings?	Invited or Accepted	Published Elsewhere?
	International	Oral Presentation	Yes	Yes	Accepted	

Frankki, S. (Presenter & Author), Kressin, A. J. (Author Only), Bennie, B. (Co-Author), Haro, R. J. (Co-Author), Peirce Jr, J. P. (Co-Author), Sandland, G. (Co-Author), Joint Mathematic Meetings, San Diego, CA, "Modeling the effects of multiple host species on disease transmission in the Upper Mississippi River", Abstract. (Date Presented: January 11, 2013).

Meeting Type	Scope	Format of Presentation	Published in Proceedings?	Refereed Proceedings?	Invited or Accepted	Published Elsewhere?
		Poster	Yes		Accepted	

[Download File \(bbennie/present/Frankki\\_Kressin\\_JMMPoster\(1\)-1.pdf\)](#)

Bennie, B. (Presenter & Author), Haro, R. J. (Co-Author), Peirce Jr, J. P. (Co-Author), Sandland, G. (Co-Author), Joint Mathematic Meetings, San Diego, CA, "UBM-Group, Collaborations on Riverine Ecology (CORE): Investigations into species invasion and disease transmission at the interface between mathematics and biology", Abstract. (Date Presented: January 10, 2013).

Meeting Type	Scope	Format of Presentation	Published in Proceedings?	Refereed Proceedings?	Invited or Accepted	Published Elsewhere?
		Poster	Yes		Invited	

[Download File \(bbennie/present/COREposter\\_JMM13-1-1.pdf\)](#)

Kressin, A. J. (Co-Author/Co-Presenter), Frankki, S. (Co-Author/Co-Presenter), Bennie, B. (Co-Author), Haro, R. J. (Co-Author), Peirce Jr, J. P. (Co-Author), Sandland, G. (Co-Author), Seven Rivers Undergraduate Research Symposium, Viterbo University, La Crosse, WI, "Assessing transmission dynamics in native and invasive snails exposed to a local parasite species", <http://www.viterbo.edu/SevenRivers.aspx>. (Date Presented: November 9, 2012).

Meeting Type	Scope	Format of Presentation	Published in Proceedings?	Refereed Proceedings?	Invited or Accepted	Published Elsewhere?
		Poster				

Hines, K. (Co-Author/Co-Presenter), Wolf, R. (Co-Author/Co-Presenter), Bennie, B. (Co-Author), Haro, R. J. (Co-Author), Peirce Jr, J. P. (Co-Author), Sandland, G. (Co-Author), Seven Rivers Undergraduate Research Symposium, Viterbo University, La Crosse, WI, "Digitally tracking the movement of an aquatic host (*Bithynia tentaculata*) infected with a parasite (*Cyathocotyle bushiensis*) of conservation concern.", <http://www.viterbo.edu/SevenRivers.aspx>. (Date Presented: November 9, 2012).

Meeting Type	Scope	Format of Presentation	Published in Proceedings?	Refereed Proceedings?	Invited or Accepted	Published Elsewhere?
		Poster				

Frankki, S. (Co-Author/Co-Presenter), Kressin, A. J. (Co-Author/Co-Presenter), Bennie, B. (Co-Author), Haro, R. J. (Co-Author), Peirce Jr, J. P. (Co-Author), Sandland, G. (Co-Author), Seven Rivers Undergraduate Research Symposium, Viterbo University, La Crosse, WI, "Exploring the role of invasive and native species in parasite transmission in the Upper Mississippi River", <http://www.viterbo.edu/SevenRivers.aspx>, Abstract. (Date Presented: November 9, 2012).

Meeting Type	Scope	Format of Presentation	Published in Proceedings?	Refereed Proceedings?	Invited or Accepted	Published Elsewhere?
		Poster	Yes	Yes	Accepted	

Rittenhouse, M. (Presenter & Author), Sandland, G. (Co-Author), Bennie, B. (Co-Author), Seven Rivers Undergraduate Research Symposium, Viterbo University, La Crosse, WI, "Investigating the effects of invasive snail demographics on parasite transmission in the upper Mississippi River.", Abstract. (Date Presented: November 9, 2012).

Meeting Type	Scope	Format of Presentation	Published in Proceedings?	Refereed Proceedings?	Invited or Accepted	Published Elsewhere?
	Regional	Oral Presentation	Yes	Yes	Accepted	

Peirce Jr, J. P. (Co-Author/Co-Presenter), Sandland, G. (Co-Author/Co-Presenter), Haro, R. J. (Co-Author), Bennie, B. (Co-Author), Upper Midwest Invasive Species Conference, La Crosse, WI, "Combining empirical and theoretical approaches to better understand the persistence of waterfowl disease in the Upper Mississippi River", <http://www.umisc2012.org/program.html>, Abstract. (Date Presented: October 31, 2012, Date Accepted: May 15, 2012, Date Submitted: April 14, 2012).

Meeting Type	Scope	Format of Presentation	Published in Proceedings?	Refereed Proceedings?	Invited or Accepted	Published Elsewhere?
	Regional	Oral Presentation	Yes		Accepted	

[Download File \(gsandland/present/Modeling talk Sandland Final-1.ppt\)](#)

Rittenhouse, M. (Presenter & Author), Jansen, M. (Co-Author), Bennie, B. (Co-Author), Haro, R. J. (Co-Author), Peirce Jr, J. P. (Co-Author), Sandland, G. (Co-Author), Upper Midwest Invasive Species Conference, La Crosse, WI, "Examining the role of host competition and juvenile susceptibility in the persistence of waterfowl disease in the upper Mississippi River", Abstract. (Date Presented: October 30, 2012, Date Accepted: May 16, 2012, Date Submitted: April 16, 2012).

Meeting Type	Scope	Format of Presentation	Published in Proceedings?	Refereed Proceedings?	Invited or Accepted	Published Elsewhere?
	Regional	Poster	Yes		Accepted	

Sandland, G. (Co-Author/Co-Presenter), Peirce Jr, J. P. (Co-Author/Co-Presenter), Haro, R. J. (Co-Author), Bennie, B. (Co-Author), Mathematical Association of America's MathFest Conference, Mathematical Association of America, Madison, WI, "Developing Student Understanding of Species Invasions and Disease Transmission at the Interface Between Mathematics and Biology", <http://www.maa.org/mathfest/>, Abstract. (Date Presented: August 2, 2012, Date Accepted: May 2012, Date Submitted: April 2012).

Meeting Type	Scope	Format of Presentation	Published in Proceedings?	Refereed Proceedings?	Invited or Accepted	Published Elsewhere?
	International	Oral Presentation	Yes		Accepted	

[Download File \(gsandland/present/mathfest2012\\_talk\(1\)-1.pdf\)](#)

Rittenhouse, M. (Co-Author/Co-Presenter), Jansen, M. (Co-Author/Co-Presenter), Sandland, G. (Co-Author), Haro, R. J. (Co-Author), Peirce Jr, J. P. (Co-Author), Bennie, B. (Co-Author), Celebration of Student Research and Creativity Conference, UW-L, La Crosse, WI, "Investigating the role of host competition in the transmission of waterfowl disease in the upper Mississippi River", <http://www.uwlax.edu/urc/files/15th%20Annual%20Booklet.pdf>, Abstract. (Date Presented: April 13, 2012, Date Accepted: March 20, 2012, Date Submitted: March 12, 2012).

Meeting Type	Scope	Format of Presentation	Published in Proceedings?	Refereed Proceedings?	Invited or Accepted	Published Elsewhere?
	Local		Yes	No	Accepted	

Van Calster, K. (Presenter & Author), Soltau, K. (Co-Author), Peirce Jr, J. P. (Co-Author), Sandland, G. (Co-Author), Haro, R. J. (Co-Author), Bennie, B. (Co-Author), National Conference on Undergraduate Research, NCUR, Ogden, Utah, "USING A COMBINATION OF EMPIRICAL AND THEORETICAL APPROACHES TO ASSESS A HOST-PARASITE INTERACTION OF CONSERVATION CONCERN", [https://ncur.weber.edu/ncur/search/Display\\_NCUR.aspx?id=62228](https://ncur.weber.edu/ncur/search/Display_NCUR.aspx?id=62228), Abstract. (Date Presented: March 30, 2012, Date Submitted: January 2, 2012).

Meeting Type	Scope	Format of Presentation	Published in Proceedings?	Refereed Proceedings?	Invited or Accepted	Published Elsewhere?
	International	Poster	Yes	Yes	Accepted	

Bennie, B. (Presenter & Author), Joint Mathematics Meetings, Boston, MA, "Strategic Market Games with Random Endowments". (Date Presented: January 6, 2012).

Meeting Type	Scope	Format of Presentation	Published in Proceedings?	Refereed Proceedings?	Invited or Accepted	Published Elsewhere?
					Accepted	

[Download File \(bbennie/present/Bennie JMM 01-06-12-1.pdf\)](#)

Hulett, H. A., Bennie, B., Joint Meeting, American Mathematical Society and the Mathematical Association of America, Boston, MA, "Read and Reflect: Making Statistics Real". (Date Presented: January 6, 2012, Date Accepted: October 5, 2011, Date Submitted: September 20, 2011).

Meeting Type	Scope	Format of Presentation	Published in Proceedings?	Refereed Proceedings?	Invited or Accepted	Published Elsewhere?
	International	Oral	No	No	Accepted	

		Presentation				
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Jansen, M. (Co-Author/Co-Presenter), Rittenhouse, M. (Co-Author/Co-Presenter), Bennie, B. (Co-Author), Haro, R. J. (Co-Author), Peirce Jr, J. P. (Co-Author), Sandland, G. (Co-Author), Joint Mathematics Meetings, Boston, MA, "Investigating the role of host competition in the transmission of waterfowl disease in the upper Mississippi River", <http://jointmathematicsmeetings.org/jmm>, Abstract. (Date Presented: January 6, 2012, Date Accepted: October 2011, Date Submitted: September 2011).

Meeting Type	Scope	Format of Presentation	Published in Proceedings?	Refereed Proceedings?	Invited or Accepted	Published Elsewhere?
	International	Poster	Yes	Yes	Accepted	No

[Download File \(gsandland/present/Boston\\_CORE-SIR-1.pdf\)](#)

Van Calster, K. (Presenter & Author), Soltau, K. (Co-Author), Peirce Jr, J. P. (Co-Author), Sandland, G. (Co-Author), Bennie, B. (Co-Author), Haro, R. J. (Co-Author), Joint Mathematics Meetings, Boston, MA, "Using energy budgets to model host-parasite interaction along the Mississippi River", <http://jointmathematicsmeetings.org/jmm>, Abstract. (Date Presented: January 6, 2012, Date Accepted: October 2011, Date Submitted: September 2011).

Meeting Type	Scope	Format of Presentation	Published in Proceedings?	Refereed Proceedings?	Invited or Accepted	Published Elsewhere?
	International	Poster	Yes	Yes	Accepted	No

[Download File \(gsandland/present/Boston\\_deb\\_poster-1.pdf\)](#)

Peirce Jr, J. P. (Co-Author/Co-Presenter), Sandland, G. (Co-Author/Co-Presenter), Haro, R. J. (Co-Author), Bennie, B. (Co-Author), Joint Mathematics Meetings, Boston, MA, "UBM Group: Collaborations On Riverine Ecology (CORE): investigations into species invasion and disease transmission at the interface between mathematics and biology", <http://jointmathematicsmeetings.org/jmm>, Abstract. (Date Presented: January 5, 2012, Date Accepted: October 2011, Date Submitted: September 2011).

Meeting Type	Scope	Format of Presentation	Published in Proceedings?	Refereed Proceedings?	Invited or Accepted	Published Elsewhere?
	International	Poster	Yes	Yes	Accepted	No

Peirce Jr, J. P. (Co-Author/Co-Presenter), Sandland, G. (Co-Author/Co-Presenter), Haro, R. J. (Co-Author), Bennie, B. (Co-Author), Joint Mathematics Meetings, Boston, MA, "Predicting the ecological outcomes of species invasions and parasite transmission in the upper Mississippi River", <http://jointmathematicsmeetings.org/jmm>, Abstract. (Date Presented: January 4, 2012, Date Accepted: October 2011, Date Submitted: August 2011).

Meeting Type	Scope	Format of Presentation	Published in Proceedings?	Refereed Proceedings?	Invited or Accepted	Published Elsewhere?
	International	Oral Presentation	Yes	Yes	Accepted	No

Jansen, M. (Presenter & Author), Rittenhouse, M. (Presenter & Author), Bennie, B. (Author Only), Haro, R. J. (Author Only), Peirce Jr, J. P. (Author Only), Sandland, G., Seven Rivers Conference, Viterbo University, La Crosse, WI, "Understanding the effects of intraspecific competition on disease transmission in the upper Mississippi River", Abstract. (Date Presented: November 11, 2011, Date Accepted: November 6, 2011).

Meeting Type	Scope	Format of Presentation	Published in Proceedings?	Refereed Proceedings?	Invited or Accepted	Published Elsewhere?
	Regional		Yes	No	Accepted	

Soltau, K. (Presenter & Author), Van Calster, K. (Presenter & Author), Peirce Jr, J. P. (Author Only), Sandland, G., Bennie, B. (Author Only), Haro, R. J. (Author Only), Seven Rivers Conference, Viterbo University, La Crosse, WI, "Using host energy budgets to better understand outbreaks of waterfowl disease in the upper Mississippi River", Abstract. (Date Presented: November 11, 2011, Date Accepted: November 6, 2011).

Meeting Type	Scope	Format of Presentation	Published in Proceedings?	Refereed Proceedings?	Invited or Accepted	Published Elsewhere?
	Regional		Yes	No	Accepted	

Jansen, M. (Co-Presenter), Rittenhouse, M. (Co-Presenter), Soltau, K. (Co-Presenter), Van Calster, K. (Co-Presenter), Bennie, B. (Co-Author), Haro, R. J. (Co-Author), Peirce Jr, J. P. (Co-Author), Sandland, G. (Co-Author), The International Environmetrics Society's Third North American Regional Meeting, La Crosse, WI, "Investigations into species invasion and disease transmission at the interface between mathematics and biology", <http://www.uwlax.edu/conted/ties2011/tieshomepage.htm>, Abstract. (Date Presented: July 18, 2011, Date Accepted: July 10, 2011, Date Submitted: July 10, 2011).

Meeting Type	Scope	Format of Presentation	Published in Proceedings?	Refereed Proceedings?	Invited or Accepted	Published Elsewhere?
	International	Poster	Yes		Accepted	

[Download File \(sandland.greg/present/Abstract for Environmetrics - 2011-1.doc\)](#)

Bennie, B. (Presenter & Author), Hulett, H. A. (Author Only), Wisconsin Section MAA Meeting, Menomonie, WI, "Read & Reflect: Making Statistics Real". (Date Presented: April 30, 2011).

Meeting Type	Scope	Format of Presentation	Published in Proceedings?	Refereed Proceedings?	Invited or Accepted	Published Elsewhere?
	Regional	Oral Presentation			Accepted	

[Download File \(bennie.barb/present/Bennie Spring 2011 MAA Presentation-1.pdf\)](#)

Sallmen, S. M. (Presenter & Author), Bennie, B. (Co-Author), Wisconsin Association of Physics Teachers Annual Meeting, American Association of Physics Teachers, River Falls, WI, "Investigating Student Views of Relevancy in Introductory Astronomy", <http://www.uwec.edu/wapt/Meetings/2010/index.html>. (Date Presented: October 30, 2010).

Meeting Type	Scope	Format of Presentation	Published in Proceedings?	Refereed Proceedings?	Invited or Accepted	Published Elsewhere?
	State	Oral Presentation	No		Accepted	

## 2. Editorial and Review Activities

"Journal of AOAC International", Invited Manuscript Reviewer, International, 1 items edited/reviewed. (June 2012 - December 2012).

## 3. Research Currently in Progress

"Math Bio working group" (On-Going) I attend weekly meetings of the math-bio working group during the academic year (although had a course conflict for the Spring 2015 semester). The group is led by E. Eager and consists of faculty from Math, Biology, and Computer Science. The group has made progress on several problems at the interface of math and biology. I am currently working on a project that uses game theory to model the foraging behavior of larval caddisflies with Roger Haro. I am also working with James Peirce, Greg Sandland, and Roger Haro on a project that incorporates water temperature into a parasite transmission model with birds and snails as hosts.

#### Strategic Market Games with Bayesian Learning (On-going)

I am considering an infinite horizon cash-in-advance market economy with symmetric agents. In each stage, a representative agent receives an independent, random endowment from an unknown distribution. The agents gain information about the unknown distribution with each days observed endowment. We suppose that a central bank sets a fixed, nominal interest rate for both borrowing and investing. We compare equilibrium spending strategies and inflation rates from this context to those seen when the endowment distribution is known. Writing results.

#### Math & Science Partnership (MSP) Project Evaluator. (September 2012 - August 2018)

I served as the Project Evaluator for a Math Partnership Grant: "Math Transition into the Common Core Era," from 2012-2015 and am now beginning as Project Evaluator for a new Math Partnership Grant: "Mathematical Progressions and Habits of Mind." The PI and co-PIs for the grant are from UW-River Falls and UW-Eau Claire. I attend several workshops for in-service math teachers throughout the year and provide quantitative and qualitative assessment of the program. With the help of a student assistant, I score and summarize assessment measures for the participating and control group teachers and students of these teachers. I invest approximately 200 hours per year to compile, analyze, and report assessment data related to the grant program.

### Contracts, Grants, and Sponsored Research

Hofacker, Erick (Principal), Serros, Sherrie (Co-Principal), Ernie, Kathy (Co-Principal), Ahrendt, Susan (Co-Principal), Bennie, Barbara (Supporting), "Math Partnership: Mathematical Progressions and Habits of Mind"(Funded), External Grant, Sponsored by Department of Public Instruction, \$670000. (September 2015 - August 2018).

Eager, Eric (Principal), Bennie, Barbara (Co-Principal), Allen, Martin (Supporting), Allen, Robert (Supporting), Baines, Anita (Supporting), Baumann, Douglas (Supporting), Erickson, Richard A (Supporting), Haro, Roger J (Supporting), Peirce Jr, James P (Supporting), Sandland, Gregory (Supporting), "University of Wisconsin La Crosse REU in Mathematical Ecology"(Not Funded), External Grant, Sponsored by National Science Foundation, \$285631. (June 1, 2015 - May 31, 2018).

[Download File \(eager/congrant\\_research/NSF\\_REU\\_2014-1.pdf\)](#)

Hofacker, Erick (Principal), Serros, Sherrie (Co-Principal), Ernie, Kathy (Co-Principal), Bennie, Barbara (Supporting), "Math Partnership: Transition to the Common Core Era"(Funded), External Grant, Sponsored by Department of Public Instruction, \$471969. (September 2012 - August 2015).

Baumann, Douglas (Co-Principal), Bennie, Barbara (Principal), Bingham, Melissa (Co-Principal), Reineke, David M (Co-Principal), Toribio, Sherwin G (Co-Principal), Elfessi, Abdulaziz M (Co-Principal), "Incorporating Off-Campus Clients in the Statistical Consulting Center at the University of Wisconsin La Crosse"(Funded), UW System Grant, \$126248. (November 4, 2013 - June 30, 2015).

[Download File \(dbaumann/congrant\\_service/UWS Incentive Grant UW-La Crosse Statistical Consulting Final Application-1.pdf\)](#)

Peirce Jr, James P (Principal), Sandland, Gregory (Co-Principal), Haro, Roger J (Co-Principal), Bennie, Barbara (Co-Principal), "UBM-Group: Collaborations on Riverine Ecology (CORE)"(Funded), External Grant, Sponsored by NSF, \$236822. (October 1, 2010 - September 30, 2013).

[Download File \(peirce.jame/congrant\\_research/UBM2010-1.pdf\)](#)

Eager, Eric (Principal), Bennie, Barbara (Co-Principal), "Faculty/Staff Grant Development Program"(Funded), UW-L Grant, \$5000. (June 2013 - August 2013).

Eager, Eric (Principal), Bennie, Barbara (Co-Principal), Allen, Robert (Supporting), Baines, Anita (Supporting), Haro, Roger J (Supporting), Peirce Jr, James P (Supporting), Sandland, Gregory (Supporting), "University of Wisconsin La Crosse REU in Mathematical Ecology"(Not Funded), External Grant, Sponsored by National Science Foundation, \$286722.

Bennie, Barbara (Principal), "Center for Undergraduate Research in Mathematics (CURM) Mini-grant"(Funded), External Grant, Sponsored by CURM/NSF, \$16450. (June 2010 - May 2011).

[Download File \(bennie.barb/congrant\\_research/CURM application Bennie 03-2010-1.doc\)](#)

### Student Research

#### 1. Undergraduate Research

Kerswill, Stephanie, Peot, Rebecca, Weeks, Alicia, Ziegler, Emily, "Collaborations on Riverine Ecology (CORE)," Completed. (January 2013 - December 2013).

Role: I co-advised this group of math and biology majors along with J. Peirce, G. Sandland, and R. Haro. Our group met weekly from Jan 2013 - May 2013, with intense research time during Summer 2013. We met weekly during Fall 2013 to finalize work and prepare for presenting results.

Significant Student Involvement: Assessing the role of parasite manipulation on an invasive host and maximizing reproduction in an invasive snail with a parasite infection.

Dates and Locations Presented:

National Institute for Mathematical and Biological Synthesis Oral Presentation. (November 2013).

Seven Rivers Undergraduate Research Symposium Oral Poster. (November 2013).

Frankki, Susan, Hines, Krista, Kressin, AJ, Wolf, Robert, "Collaborations on Riverine Ecology (CORE)," Completed. (January 2012 - December 2012).

Role: I co-advised this group of math and biology majors along with J. Peirce, G. Sandland, and R. Haro. Our group met weekly from Jan 2012 - May 2012, with intense research time during Summer 2012. We met weekly during Fall 2012 to finalize work



and prepare for presenting results.

Significant Student Involvement: Exploring the role of invasive and native species in parasite transmission in the Upper Mississippi River and examining the underlying behaviors of an aquatic host and parasite by digitally tracking the hosts' movement.

Dates and Locations Presented:

National Conference on Undergraduate Research (NCUR)  $\hat{\Omega}$  Poster. (April 2013).

Joint Mathematics Meetings  $\hat{\Omega}$  Poster. (January 2013).

Seven Rivers Undergraduate Research Symposium  $\hat{\Omega}$  Poster. (November 2012).

Soltau, Kari, Van Calster, Kacey, Rittenhouse, Matt, Jansen, Maria. (January 2011 - December 2011).

Role: I co-advised this group of math and biology majors along with J. Peirce, G. Sandland, and R. Haro. Our group met weekly from Jan 2013 - May 2013, with intense research time during Summer 2013. We met weekly during Fall 2013 to finalize work and prepare for presenting results.

Significant Student Involvement: Investigating the role of host competition in the transmission of waterfowl disease in the upper Mississippi River and using energy budgets to model host-parasite interaction along the Mississippi River.

Dates and Locations Presented:

The International Environmetrics Society's Third North American Regional Meeting  $\hat{\Omega}$  Poster. (July 2011).

Seven River Undergraduate Research Symposium  $\hat{\Omega}$  Poster. (November 2011).

Joint Mathematics Meetings  $\hat{\Omega}$  Poster. (January 2012).

National Conference on Undergraduate Research (NCUR)  $\hat{\Omega}$  Poster. (March 2012).

UW-L's Annual Celebration of Research and Creativity  $\hat{\Omega}$  Poster. (April 2012).

Upper Midwest Invasive Species Conference  $\hat{\Omega}$  Poster. (October 2012).

Jansen, Maria, Jens, Cassandra, Haunfelder, Ryan, Mathematics, "Confidence interval methods for comparing two population means," Completed. (September 2010 - May 2011).

Germane Honors: This team of three students received funding through the Center for Undergraduate Research in Mathematics to conduct research during the 2010-11 academic year.

Significant Student Involvement: The team investigated the performance on the independent sample t confidence interval method in various scenarios. In particular, they focused on the accuracy of the method when working with skewed populations and relatively small sample sizes. They considered existing alternatives to the independent sample t confidence interval method and aimed to develop a new method that performs as well or better than existing methods when working with skewed data.

Dates and Locations Presented:

St. Norbert's Pi Mu Epsilon Conference  $\hat{\Omega}$  Oral Presentation. De Pere, WI. (November 2010).

CURM Conference  $\hat{\Omega}$  Oral Presentation. Provo, UT. (March 2011).

National Conference on Undergraduate Research (NCUR)  $\hat{\Omega}$  Poster. Ithaca, NY. (April 2011).

UW-L's Annual Celebration of Research and Creativity  $\hat{\Omega}$  Poster. La Crosse, WI. (April 2011).

UW-L's Annual Celebration of Research and Creativity  $\hat{\Omega}$  Oral Presentation. La Crosse, WI. (April 2011).

Math Department Seminar  $\hat{\Omega}$  Oral Presentation. La Crosse, WI. (December 2010).

## B. Additional Scholarship Evidence

R1: A few unsolicited comments from Statistical Consulting Center clients

[Download File \(bbennie/promotion/SCC\\_Client\\_Feedback-1.pdf\)](#)

R2: Letter of support from PI Dr. Erick Hofacker from UW-River Falls regarding the Math Education projects that I have evaluated.

[Download File \(bbennie/promotion/Dr Bennie letter updated-2.pdf\)](#)

## V. SERVICE

### A. Service

#### Department Service

Department assessment coordinator. (March 2013 - Present)

I oversee the assessment of both the Math and Statistics major programs. Our department has started from essentially a blank slate in formulating program student learning outcomes, a curriculum map to connect these SLOs to the major courses, and a systemic schedule for gathering and evaluating assessment data. We are on track to collect and evaluate data on direct measures of student achievement associated with all program SLOs at least one time between Spring 2014 and Fall 2015.

Retention committee, Member. (September 2012 - Present)

Served as a member of the retention committee and a classroom evaluator for two tenure track faculty each year.

Statistics Curriculum Committee, Member. (September 2006 - Present)

The committee reviews and revises the statistics curriculum including a general education course (MTH 145) and courses within our major and minor programs. We developed and implemented the Statistics major program which began in 2013. We are in the early stages of planning a Master's program in Applied Statistics.

Merit Committee, Member. (August 2015 - December 2015)

MUDAC Team Organizer/Advisor. (April 2015)

Helped to recruit, prepare, and advise two UW-L teams (7 students) for participation in the annual Midwest Undergraduate Data Analytics Competition hosted by Winona State University.

Scholarship Review Committee, Member. (March 2015)

Review and rank applications for three scholarships awarded by the math department.

MTH 145 General Education Assessment. (September 2008 - May 2014)

Select a task and corresponding rubric to be used to assess a general education student learning outcome in MTH 145. Collect and evaluate assessment data from all MTH 145 instructors.

Campus close-up. (April 2014)

Represented the math department at a campus close-up event for prospective students.

MUDAC Team Organizer. (April 2014)

Helped to recruit and prepare two UW-L teams (8 students) for participation in the second annual Midwest Undergraduate Data Analytics Competition hosted by Winona State University. I did not serve as an advisor on the day of the event this year.

Merit Committee, Member. (September 2012 - December 2013)

Library Liaison. (September 2007 - August 2013)

MUDAC Team Organizer/Advisor. (April 2013)

Helped to recruit, prepare, and advise two UW-L teams (7 students) for participation in the second annual Midwest Undergraduate Data Analytics Competition hosted by Winona State University.

Math Modeling Contest Advising. (September 2006 - February 2013)

Since coming to UW-L in Fall 2006, I have recruited and prepared teams to participate in the annual COMAP Mathematical Contest in Modeling. For the 2007 and 2008 contests, I advised 1 team each year. With the support of colleagues, we have grown contest participation to 5 teams in 2009, 8 teams in the 2010 contest, 8 teams in the 2011 contest, 6 teams in the 2012 contest, and 4 teams in the 2013 contest.

Statistics Search and Screen, Member. (May 2012 - November 2012)

MUDAC Team Organizer/Advisor. (April 2012)

Helped to recruit, prepare, and advise two UW-L teams (6 students) for participation in the first annual Midwest Undergraduate Data Analytics Competition hosted by Winona State University. One UW-L team earned second place in the competition.

Scholarship Review Committee, Member. (March 2012)

Review and rank applications for three scholarships awarded by the math department.

## College Service

College Assessment Committee, Member. (March 2013 - Present)

The committee established a framework for program assessment within the college, provided supporting resources to programs, and reviewed and provided feedback on associated assessment documents for all programs within the college. I convened a subcommittee for the purpose of document review approximately once per year.

## University Service

### 1. Committee Involvement

Faculty Senate, Member. (May 2015 - Present)

Academic Program Review, Chair. (August 2014 - May 2015)

We review APR documents from programs on campus to provide feedback to the programs and to create summary reports for faculty senate. The committee met one hour each week for nearly every week in the academic year. Additionally, I attended several faculty senate meetings to present APR reports. The 2014-15 APR committee reviewed 12 programs (11 full self-studies and 1 three year progress report).

Director of the UW-L Statistical Consulting Center. (August 2014 - Present)

We provide advice and assistance in areas of sampling, experimental design, data modeling and analysis as well as interpretation and written communication of results for projects that require statistical methods. This service is outside of the UW-L campus community. Under the supervision of Mathematics Department faculty members, Statistics majors work as interns and provide statistical consulting services to area businesses and organizations.

Academic Program Review, Member. (August 2013 - Present)

We review APR documents from programs on campus to provide feedback to the programs and to create summary reports for faculty senate.

Working Group on Biennial Assessment, Member. (April 2015 - May 2015)

The working group was charged by the Provost to consider the timing and structure of review and feedback associated with biennial assessment.

Faculty Development, Chair. (September 2012 - May 2013)

Faculty Development, Member. (September 2010 - May 2013)

Review and make funding recommendations on Faculty Development grant applications. Review and edit committee bylaws.

ADVANCE-IT Catalyst Report, Internal reviewer. (October 2011)

The ADVANCE-IT Catalyst grant was awarded to UW-L (PI Cynthia Berlin) by the NSF to gather data for assessing the participation of women faculty in science at our university. I served as an internal reviewer for the Catalyst grant final report.

CATL Advisory Group, Member. (September 2010 - May 2011)

The Advisory Group, composed of instructors and a student, meets periodically with the CATL Director to provide feedback, advice and perspectives on the work and direction of CATL.

## Professional and Community Service

### 1. Consulting/board of directors

Professional, Ecolab Research and Development, Eagan, MN, Consultant. (August 2006 - November 2010).  
Provided statistical advice and analysis on a variety of projects

## 2. Other professional and community service

Moody's Mega Math Challenge, Reviewer. (March 2015).

Spent 20 to 30 hours reading and reviewing several papers submitted by teams of high school students in Moody's Mega Math Challenge. The M3 Challenge is an annual math modeling contest for high school students. This year's contest question related to the accumulation of plastic waste and improved efficiency of recycling.

Moody's Mega Math Challenge, Reviewer. (March 2014).

Spent 20 to 30 hours reading and reviewing several papers submitted by teams of high school students in Moody's Mega Math Challenge. The M3 Challenge is an annual math modeling contest for high school students. This year's contest question related to the accumulation of plastic waste and improved efficiency of recycling.

Professional, National Conference on Undergraduate Research (NCUR). (April 2013).

Served as an abstract reviewer and session moderator for the 2013 NCUR

Moody's Mega Math Challenge, Reviewer. (March 2013).

Spent 20 to 30 hours reading and reviewing several papers submitted by teams of high school students in Moody's Mega Math Challenge. The M3 Challenge is an annual math modeling contest for high school students. This year's contest question related to the accumulation of plastic waste and improved efficiency of recycling.

Professional, Joint Math Meetings Undergraduate Student Poster Session, Poster judge. (January 2013).

Reviewed and provided written feedback for student posters.

Council on Undergraduate Research (CUR), Councilor, Yes, elected. (June 2009 - June 2012).

Moody's Mega Math Challenge, Reviewer. (March 2012).

Spent 20 to 30 hours reading and reviewing several papers submitted by teams of high school students in Moody's Mega Math Challenge. The M3 Challenge is an annual math modeling contest for high school students. This year's contest question related to high speed rail in the U.S.

Professional, Joint Math Meetings Undergraduate Student Poster Session, Poster judge. (January 2012).

Reviewed and provided written feedback for student posters.

Professional, Mathematical Modeling Contests: Recruiting and Preparing Teams and Improving Student Learning Outcomes, Workshop Organizer, Regional. (October 2, 2010).

Along with colleagues Ted Wendt and Robert Allen, I helped to organize a faculty workshop focusing on issues related to mathematical modeling and, in particular, mathematical modeling competitions. The workshop was held at UW-L.

## Service Presentations

Bennie, Barbara, "Update on Statistical Consulting Center expansion", WiSys, UW - La Crosse. (September 5, 2014).

Invited to present to a visiting WiSys team (team Arjun Sanga, Executive Director; David Ward, Chair, WiSys Foundation; and Regent Tim Higgins) along with other WiSys grant recipients to showcase work being done.

Bennie, Barbara, "Progress report on Statistical Consulting Center expansion", UW Board of Regents REDI committee, UW - River Falls. (April 10, 2014).

Sandland, Gregory (Co-Author/Co-Presenter), Peirce Jr, James P (Co-Author/Co-Presenter), Haro, Roger J (Co-Author), Bennie, Barbara (Co-Author), "Fostering undergraduate learning at the interface between biology and mathematics", UW-L SAH, UW-L. (January 26, 2012).

[Download File \(gsandland/present\\_service/Scholar\\_Day\\_2012-1.pdf\)](#)

## Professional Memberships

Mathematical Association of America, National.

Council on Undergraduate Research, National. (September 2007 - June 2012).

## B. Additional Service Evidence

S1: Peer evaluation of service from Dr. Sandy Grunwald who I worked with on the APR Committee, the College of Science and Health Assessment Committee, and Working Group on Biennial Assessment.

[Download File \(bbennie/promotion/Bennie - promotion-1.pdf\)](#)

S2: Thank you note from Provost Macpherson to the Working Group of Biennial Assessment (email sent via the working group chair, Charles Martin-Stanley).

[Download File \(bbennie/promotion/Working\\_Group\\_Thank\\_You -1.pdf\)](#)

## VI. ADDITIONAL INFORMATION

### A. Awards and Honors

UW-L Mathematics Department selected to receive the Regents' 2015 Teaching Excellence Award, UW Board of Regents, Teaching. (April 2015).

Nomination for a Provost's Teaching Excellence Award, Teaching. (June 2014).

Nomination for a Provost's Teaching Excellence Award, Teaching. (June 2013).

## **B. Faculty Development**

### **Other Activities**

Teaching, Conference Program, "17th Annual UWL Conference on Teaching and Learning", United States. (September 1, 2015).

Teaching, Conference Program, "16th Annual UWL Conference on Teaching and Learning", United States. (August 26, 2014).

Teaching, Conference Program, "UW-L 2014 Winter Conference on Teaching & Learning", United States. (January 21, 2014).

Teaching, Conference Program, "15th Annual UWL Conference on Teaching and Learning", United States. (August 27, 2013).

Teaching, Conference Program, "14th Annual UWL Conference on Teaching and Learning", United States. (August 28, 2012).

Workshop, "Using Rubrics in D2L", CATL, La Crosse, WI, United States. (February 16, 2011).

## **C. Pre UW-L CV Link**

[Download File \(bbennie/promotion/Bennie CV-1.pdf\)](#)