

Curriculum Vita  
**Raina Stefanova Robeva**

Department of Mathematical Sciences  
Sweet Briar College  
Sweet Briar, VA 24595

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**Education:**

<i>Institution and Location</i>	<i>Degree</i>	<i>Field</i>	<i>Year</i>
University of Virginia	Ph.D.	Mathematics	1997
Sofia University, Sofia, Bulgaria	M.S.	Probability & Statistics	1985
Sofia University, Sofia, Bulgaria	B.S.	Mathematics	1983

**Appointments:**

2008-present	Professor, Department of Mathematical Sciences, Sweet Briar College.
2006-present	Chair, Department of Mathematical Sciences, Sweet Briar College.
2002-2008	Associate Professor, Department of Mathematical Sciences, Sweet Briar College.
1996-2002	Assistant Professor, Department of Mathematical Sciences, Sweet Briar College.
1992-1995	Graduate instructor, Department of Mathematics, University of Virginia.
1989-1991	Assistant Professor, Sofia Technical University, Sofia, Bulgaria.
1986-1989	Mathematician, Teletraffic and Communications Laboratory, Institute of Mathematics, Bulgarian Academy of Sciences, Sofia, Bulgaria.

**Professional Memberships:**

American Mathematical Society; American Association of the Advancement of Science;  
Mathematical Association of America; Society of Mathematical Biology

**Boards and Elected Offices:**

2005 – present	Scientific Advisory Board - Attention Point, Roanoke, VA.
2006 – present	Mathematics Editor-in-Chief - The Biological ESTEEM Collection.
2007 – present	Review Board - <i>Mathematics and Computers in Simulation</i> , Elsevier.
2008 – 2010	Chair-Elect (2008), Chair (2009), and Past-Chair (2010) of BIO SIGMAA - Special Interest Group on Mathematical and Computational Biology of the Mathematical Association of America.

**External Grants and Awards:**

- *Modern Biology, Modern Mathematics, and Modern Solutions: Moving Biomathematics Education Beyond Calculus.* January 2008 – July 2010
  - Role on the project: Principal Investigator
  - Source of Support: The National Science Foundation
  - Total Award Amount: \$149,982.

- *Increasing the Number of Women in Computer Science, Engineering, and Mathematics: A Scholarship Program at an Undergraduate Women's College.* August 2004 – July 2009.  
 Role on the project: Co-Investigator (PI – Dr. Stephen Wassell, SBC)  
 Source of Support: The National Science Foundation  
 Total Award Amount: \$201,250.
  
- *Psycho-Physiological Procedure for Assessing Attentional Disorders.* August 2004 – July 2005.  
 Role on the project: Co-Investigator (Principal Investigator – Dr. J. Penberthy, UVA)  
 Source of Support: The Carilion Biomedical Institute, Biomedical Translational Research Grant Awards  
 Total Award Amount: \$146,250.
  
- *Biomathematics: Developing a Textbook and Case Study Manual for Teaching Introductory Courses in Mathematical Biology.* February 2004 – January 2007.  
 Role on the project: Principal Investigator  
 Source of Support: The National Science Foundation  
 Total Award Amount: \$74,994.
  
- *Computational Applications in Diabetes and Endocrinology.* February 2003 – January 2008.  
 Role on the project: Consultant (Principal Investigator – Dr. Michael Johnson, UVA)  
 Source of Support: The National Institutes of Health  
 Total Award Amount: \$525,766.
  
- *Teaching Quantification Skills in the Biology and Mathematics Curricula.* February 2002 – June 2005.  
 Role on the project: Principal Investigator  
 Source of Support: The National Science Foundation  
 Total Award Amount: \$65,225.
  
- *Algorithm for EEG Assessment of Attention Deficit Hyperactivity Disorder.* July 2000 – July 2001.  
 Role on the project: Co-Investigator (Principal Investigator – Dr. J. Penberthy, UVA)  
 Source of Support: The Carilion Biomedical Institute  
 Total Award Amount: \$38,000.
  
- *Quantitative Assessment of Attention Deficit/Hyperactivity Disorder: Validation of the Consistency Index.* January 2000 – January 2001.  
 Role on the project: Co-Investigator (Principal Investigator – Dr. Daniel Cox, UVA)  
 Source of Support: Commonwealth Health Research Board of Virginia  
 Total Award Amount: \$64,153.
  
- *Electroencephalographic and Psychometric Differences Between College Students With and Without Attention Deficit/Hyperactivity Disorder.* June 1998-June 2003.  
 Role on the project: Principal Investigator (1998-2002), Co-Investigator (2002-2003)  
 Source of Support: The Thomas F. Jeffress and Kate Miller Jeffress Memorial Trust  
 Total Award Amount: \$50,000.

### **Equipment Grants and Loans:**

- *A Multi-channel Lexicor EEG Data collection System with a Pentium III PC.* On loan, 1999 – 2002.
  - Role on the project: Co-Author (with Dr. Tim Loboschefski, SBC)
  - Source of Support: NASA, Transfer of Technology Act
  - Total Equipment Value: \$10,000
  
- *Grass Model 6 EEG Recording Device.* Awarded to Sweet Briar College, 1999.
  - Role on the project: Co-Author (with Dr. Tim Loboschefski, SBC)
  - Source of Support: Parents for World Health
  - Total Equipment Value: \$40,000.

### **Internal (Sweet Briar College) Grants and Awards:**

- (2008) Visit and Lecture on Knot Theory by Timothy Comar, Benedictine University. Sponsored by the SBC Lectures and Events Committee. January 30 - February 1, 2008. Award: \$1195.
- (2008) Presenting at the Joint Meetings of the AMS and the MAA, January 6-9, 2008, San Diego, CA. Award: \$1,693.
- (2007) Presenting at the Joint Meetings of the AMS and the MAA, January 5-8, 2007, New Orleans, LA. Award: \$1,398.
- (2003) Presenting at the Joint Meeting of the Tenth International Summer Conference in Probability and Statistics and the Seminar of Statistical Data Analysis, June 21-28, 2003, Sozopol, Bulgaria. Award: \$972.
- (2002) *Sweet Briar Faculty Fellowship.* Award: \$28,362.
- (2001) *Teaching Quantification Skills in the Biology and Mathematics Curricula.* Matching funds from Science Initiative for the NSF – CCLI award listed above. (Co-Authors: Robin Davies and Jim Kirkwood). Award: \$17,957.
- (2000) *Attending Design Patterns and Java Idioms Workshop,* June 12-16, 2000. Crested Butte, Colorado. Faculty Development Grant (Co-Author: Robert Chase.) Award: \$5,902.
- (2000) *Presenting at the Fifth World Congress of the Bernoulli Society for Probability and Mathematical Statistics,* May 15-20, 2000. Guanajuato, Mexico. Supplemental Faculty Development Grant. Award: \$440.
- (2000) *Commonwealth Health Research Board Supplemental Grant.* (Co-Author: Tim Loboschefski.) Award: \$2,054.
- (1998) *The Transition Coherence Model- an EEG Marker for ADHD?* (Co-Author: Tim Loboschefski.) Award: \$2,310.
- (1998) *CSCI 141 – Java Programming.* Curriculum Development Grant. Award: \$1,667.
- (1997) *Internet Data Collection Shell with Application to Behavioral Diabetes Research.* Award: \$2,278.

## Workshops:

Organized and directed the following faculty development workshops funded by the Professional Enhancement Program (PREP) of the Mathematical Association of America with a grant from the National Science Foundation:

(2007) Marland, E., **Robeva, R.**, & Davies, R. *Computational and Mathematical Biology*. Workshop offered June 10-16, 2007, Sweet Briar College, Sweet Briar, VA.

(2006) Marland, E., **Robeva, R.**, & Davies, R. *Computational and Mathematical Biology*. Workshop offered June 18-23, 2006, Sweet Briar College, Sweet Briar, VA.

(2005) Marland, E., Davies, R., Fall, C., Heyer, L., Lewis, T., & **Robeva, R.** *Computational and Mathematical Biology*. Workshop offered July 31- August 6, 2005, Harvey Mudd College, Claremont, CA.

(2004) Marland, E., Davies, R., Fall, C., Heyer, L., Lewis, T., & **Robeva, R.** *Computational and Mathematical Biology*. Workshop offered July 11-17, 2004, North Carolina Technical and Agricultural University, Greensboro, NC.

(2003) Andersen, J., Marland, E., **Robeva, R.** & Davies, R. *Computational and Mathematical Biology*. Workshop offered July 11-17, 2004, North Carolina Technical and Agricultural University, Greensboro, NC.

## Books and Book Chapters:

(2009) **Robeva, R.** Desegregating undergraduate mathematics and biology - interdisciplinary instruction with emphasis on ongoing research. In *Methods in Enzymology*, v. 454, Computer Methods, Part A, M. L. Johnson and L. Brand, Editors. Elsevier, 2009.

(2008) **Robeva, R.**, Kirkwood, J., Davies, R., Johnson, M., Farhy, L., Kovatchev, B. & Straume, M. *An Invitation to Biomathematics*. Academic Press, 2008.

(2008) **Robeva, R.**, Kirkwood, J., Davies, R., Johnson, M., Farhy, L., Kovatchev, B. & Straume, M. *Laboratory Manual of Biomathematics*. Academic Press, 2008.

(2005) Kovatchev, B., Penberthy K., **Robeva, R.**, Breton, M., & Cox, D. Computational Strategies in the Evaluation of Attention Deficit/Hyperactivity Disorder (ADHD). In: *Progress in Attention Deficit/Hyperactivity Disorder Research*, pp. 155-187. NOVA Science Publishers, 2005.

## Peer-Reviewed Articles:

(2008) **Robeva, R.**, Davies, R. & Johnson, M. An Interdisciplinary Course, Textbook, and Laboratory Manual in Biomathematics with Emphasis on Current Biomedical Research. To appear in: *Undergraduate Mathematics for the Life Sciences: Processes, Models, Assessment, and Directions*, MAA Notes Volume. Comar, T., Carpenter, J. & Ledder G. (Editors).

(2006) Penberthy, J.K., Cox, D., **Robeva, R.**, Kovatchev, B. & Merkel, L. The EEG Consistency Index as a Psycho-Physiological Marker of ADHD and Methylphenidate Response: Replication of Results. *Journal of Neurotherapy*, Vol. 10, No. 1, 33-43.

- (2005) Penberthy, J.K., Cox, D., Breton, M., **Robeva, R.**, Kalbfleisch, M.L., Loboschefski, T. & Kovatchev, B. Calibration of ADHD Assessments Across Studies: A Meta-Analysis Tool. *Applied Psychophysiology and Biofeedback*, Vol. 30, No. 1, 31-51.
- (2004) **Robeva, R.** & Pitt, L. On the Equality of Sharp and Germ  $\sigma$ -fields for Gaussian Processes and Fields. *Pliska Studia Mathematica*, Vol. 16, 183-205.
- (2004) **Robeva, R.**, Penberthy J.K., Loboschefski, T., Cox, D. & Kovatchev, B. K. Combined Psycho-Physiological Model of ADHD: A Pilot study of Bayesian Probability Approach to ADHD Appraisal. *Applied Psychophysiology and Biofeedback*, Vol. 29, No. 1, 1-18.
- (2003) Pitt, L. & **Robeva, R.** On the Sharp Markov Property for Gaussian Random Fields and Spectral Synthesis in Spaces of Bessel Potentials. *The Annals of Probability*, Vol. 31, No. 3, 1138-1176.
- (2001) Kovatchev, B., Cox, D., Hill, R., Reeve, R., **Robeva, R.**, & Loboschefski, T. A Psychophysiological Marker of Attention Deficit/Hyperactivity Disorder (ADHD): Defining the EEG consistency Index. *Applied Psychophysiology and Biofeedback*, Vol 26, No. 2, 127-140.
- (2001) Kovatchev, B., Cox, D., **Robeva, R.**, Gonder-Frederick, L., Farhy, L., & Clarke, W. Quantifying Biobehavioral Determinants of Risk for Severe Hypoglycemia in Type 1 Diabetes. *Journal of Applied Research*, Vol 1, No. 1, 16-23.
- (1997) **Robeva, R.** On the Sharp Markov Property for Gaussian Random Fields and the Problem of Spectral Synthesis in Certain Function Spaces. Ph.D. Thesis, University of Virginia.
- (1995) Pitt, L., **Robeva, R.**, & Wang, D. An Error Analysis for the Numerical Calculation of Certain Random Integrals: Part 1. *Ann. Appl. Probab.*, Vol. 5, No. 1, 171-197.
- (1994) Pitt, L., & **Robeva, R.** On the sharp Markov property of the Whittle field in 2-dimensions. In: *Stochastic analysis on infinite dimensional spaces*, Pitman Research Notes in Mathematics Series 310, Longman, 242-254
- (1991) **Robeva, R.** A Semi-Markov Model of a Non-homogeneous Telephone Subscribers System *Proceedings of the 13-th International Teletraffic Congress*, Copenhagen, Denmark. Springer Verlag, 701- 706.
- (1990) **Robeva, R.** Exponential Convergence of Uniformly Recurrent Markov Additive Processes. Application to the Polymer Molecule Modeling. *Mathematics and Education in Mathematics*, 19, 398-403.
- (1990) **Robeva, R.** Pressure in Statistical Mechanics on Topological Spaces Invariant Under a Group of Homeomorphisms. *Mathematics and Education in Mathematics*, 18, 485-489.
- (1989) **Robeva, R.** Modeling the Behavior of the Non-uniform Activity Telephone Subscribers System using Semi-Markov Processes. *Proceedings of the Second International Seminar on Teletraffic Theory and Computer Modelling*, Moscow, Russia, 187-198 (in Russian).
- (1988) **Robeva, R.** Systems of Interacting Flexible Polymers. *Mathematics and Education in Mathematics*, 17, 354-358.
- (1985) **Robeva, R.** A Mathematical Model of Radiobiological Processes and Mechanisms of Repair. M. Sc. Thesis, University of Sofia, Bulgaria (in Bulgarian.)

### **Inventions and Patents:**

(2008) Cox, D., Kovatchev, B., **Robeva, R.**, & Penberthy, K. *Method, Apparatus, and Computer Program Product for Assessment of Attentional Impairments*. U.S. Patent No. 7,403,814 issued July 22, 2008.

(2005) Cox, D., Kovatchev, B., **Robeva, R.**, & Penberthy, K. *Method, Apparatus, and Computer Program Product for Stochastic Psychophysiological Assessment of Attentional Impairments*. PCT/US2005/008908.

(2005) Cox, D., Kovatchev, B., **Robeva, R.**, & Penberthy, K. *Method, Apparatus, and Computer Program Product for Stochastic Psychophysiological Assessment of Attentional Impairments*. World Intellectual Property Organization, International Bureau. International Publication Number WO 2005/089431 A2, September 2005.

(2002) Cox, D., Kovatchev, B., **Robeva, R.**, & Penberthy, K. *Method, Apparatus, and Computer Program for Assessment of Attentional Impairments*. PCT/US02/14188.

(2002) Cox, D., Kovatchev, B., **Robeva, R.**, & Penberthy, K. *Method, Apparatus, and Computer Program Product for Assessment of Attentional Impairments*. World Intellectual Property Organization, International Bureau. International Publication Number WO 02/091119 A2, November 2002.

(2002) Cox, D., Kovatchev, B., **Robeva, R.**, & Penberthy, K. *Method and Apparatus for Assessment of Attentional Impairments: A Psycho-Physiological Procedure*. Invention Disclosure filed with the UVA Patent Foundation, Serial No. 60/360,295, February 27, 2002. Updated on March 26, 2002, Serial No. 60/367, 894.

(2001) Cox, D., Kovatchev, B., & **Robeva, R.** *The Consistency Index – an EEG Marker of Attention Deficit Hyperactivity Disorder*. Invention Disclosure filed with the UVA Patent Foundation, Serial No. 60/288,654, May 4, 2001.

### **Conference Papers and Presentations:**

(2009) **Robeva, R.** *Incorporating Discrete Mathematics into the Undergraduate Mathematical Biology Curriculum*. Presented at the Symposium "Mathematical Biology, the New Frontier: Educating the next generation", Annual Meeting of the American Association for the Advancement of Science, February 12-14, 2009, Chicago, IL.

(2009) **Robeva, R.** Hodge, T., Davies, R., Enyedi, A., Laubenbacher, R. *Modern Biology, Modern Mathematics, and Modern Solutions: Moving Biomathematics Education Beyond Calculus* (NSF-DUE award: 0737467). Presented at the NSF poster session at the Joint MAA/AMS Meetings, January 7, 2009, Washington, DC.

(2008) **Robeva, R.** *Top-down and bottom-up models of the lac operon network dynamics*. Presented at the mini-symposium "Current Trends in Undergraduate Biomathematics Education" at the Annual Meeting of the Society of Mathematical Biology, July 30-August 2, 2008, Toronto, Ontario, Canada.

(2008) **Robeva, R.** *Inspiring Examples from Biology for Teaching Limit Theorems in Probability*. Presented at the Joint Mathematics Meeting of the American Mathematical Society and The Mathematical Association of America, January 6-9, 2008, San Diego, CA.

- (2008) **Robeva, R.**, Loboschefscki, T. *Computational Strategies in the Evaluation of Attention Deficit/Hyperactivity Disorder (ADHD)*. Presented at the Joint Mathematics Meeting of the American Mathematical Society and The Mathematical Association of America, January 6-9, 2008, San Diego, CA.
- (2007) **Robeva, R.** *Biomathematics: Desegregating Mathematics and Biology*. Presented at the Annual Summer Meeting of the Mathematical Association of America (MathFest), August 3-5, 2007, San Jose, CA.
- (2007) **Robeva, R.**, Johnson, M. *An Undergraduate Course in Biomathematics with an Accompanying textbook*. Presented at the Joint Mathematics Meeting of the American Mathematical Society and The Mathematical Association of America, January 5-8, 2007, New Orleans, LA.
- (2007) **Robeva, R.**, Davies, R. *A Story of Developing a Course and a Textbook in Mathematical Biology*. Presented at the Joint Mathematics Meeting of the American Mathematical Society and The Mathematical Association of America, January 5-8, 2007, New Orleans, LA.
- (2006) Loboschefscki, T., **Robeva, R.**, Eads, M. T., & Wolfrom, M. *Adult ADHD: An Elaboration of the Consistency Index Model*. Presented at the Conference on Human Development, April 28-30, 2006, Louisville, KY.
- (2006) **Robeva, R.**, Johnson, M. *Teaching Undergraduate Courses in Biomathematics*. Presented at the Joint Mathematics Meeting of the American Mathematical Society and The Mathematical Association of America, January 13-15, 2006, San Antonio, TX.
- (2005) **Robeva, R.**, Davies, R., Kirkwood, Kovatchev, B., J., Johnson, M., Straume, M., & Farhy, L. *Biomathematics: Developing a Textbook and Case Study Manual for Teaching Introductory Courses in Mathematical Biology*. Presented at the Joint Mathematics Meeting of the American Mathematical Society and The Mathematical Association of America, January 5-8, 2005, Atlanta, GA.
- (2005) **Robeva, R.**, Davies, R., Kirkwood, Kovatchev, B., J., Johnson, M., Straume, M. *Teaching Biomathematics in the Undergraduate Curriculum*. Presented at the Joint Mathematics Meeting of the American Mathematical Society and The Mathematical Association of America, January 5-8, 2005, Atlanta, GA.
- (2004) **Robeva, R.** *Biomathematics for Undergraduates*. Presented at the Annual Meeting for the Society of Mathematical Biology and the International Conference for Mathematics in Biology and Medicine, July 25-28, 2004, University of Michigan, Ann Arbor, MI.
- (2004) **Robeva, R.**, Davies, R., Kirkwood, J., Johnson, M., Kovatchev, B., & Straume, M. *Teaching Biomathematics in the Undergraduate Curriculum*. Presented at the Joint Mathematics Meeting of the American Mathematical Society and The Mathematical Association of America, January 7-10, 2004, Phoenix, AZ.
- (2003) Pitt, L., **Robeva, R.** *The Markov property for Gaussian random fields and the problem of spectral synthesis in certain function spaces*. Presenting at the Joint Meeting of the Tenth International Summer Conference in Probability and Statistics and the Seminar of Statistical Data Analysis, June 21-28, 2003, Sozopol, Bulgaria.

- (2003) Penberthy, J., Cox, D., Kovatchev, B., **Robeva, R.**, & Brown, D. *A Psycho-Physiological Procedure for Assessing Attentional Disorders: ADHD*. Presented at the UVA Center for Behavioral Medical Research for members of the Carilion Biomedical Institute, February 11, 2003, Charlottesville, VA.
- (2003) **Robeva, R.**, Davies, R., Kirkwood, J., Johnson, M., Kovatchev, B., & Straume, M. *Teaching Biomathematics in the Undergraduate Curriculum*. Presented at the Joint Mathematics Meeting of the American Mathematical Society and The Mathematical Association of America, January 15-18, 2003, Baltimore, MD.
- (2002) **Robeva, R.**, Davies, R., & Kirkwood, J. *Biomathematics Initiative at Sweet Briar College*. Presented in the special session “Biomathematics: Research and Education” at the UVA School of Medicine Faculty Research Retreat, February 8-10, 2002, Greenbrier resort, White Sulphur Springs, WV.
- (2001) Penberthy, K., **Robeva, R.**, Kovatchev, B., & Cox, D. *Algorithm for EEG Assessment of Attention Deficit/Hyperactivity Disorder (ADHD)-Preliminary Findings Regarding Sensitivity and Specificity of the Consistency Indices*. Presented at the Carilion Biomedical Institute Conference and Retreat, March 19-20, 2001, Charlottesville, VA and at the Annual OSER Research Review, April 19, 2001, Blacksburg, VA.
- (2001) Kalbfleisch, M., Penberthy, K., Kovatchev, B., Cox, D. Loboschefski, T., & **Robeva, R.** *Electro-encephalographic Differences Between Boys With Average and High-aptitude With and Without Attention Deficit Hyperactivity Disorder During Task Transition*. Presented at Cognitive Neuroscience Society 8th Annual Meeting, March 25-27, 2001, World Trade Center, NY, NY
- (2000) Pitt, L., & **Robeva, R.** *Equality of the Sharp and Germ Fields for Gaussian Fields and the Sharp Markov Property*. Presented at the Fifth World Congress of the Bernoulli Society for probability and Mathematical Statistics, May 15-20, 2000, Guanajuato, Mexico.
- (2000) Cox, D. M., Kalbfleisch, M. L., Penberthy, J. K. Merkel, L., **Robeva, R.**, Loboschefski, T. & Reeve, R. Quantitative assessment of Attention-Deficit Hyperactivity Disorder: Validation of the EEG consistency index & patterns of creative performance. Presented at the 5<sup>th</sup> Annual Cognitive Neuropsychology Conference, April 9-11, 2000, San Francisco, CA.
- (2000) Penberthy, K., **Robeva, R.**, Kovatchev, B., & Cox, D. *Algorithm for Electroencephalographic Assessment of Attention Deficit/Hyperactivity Disorder*. Presented at The Carilion Biomedical Institute, May 7-8, 2000, Roanoke, VA.
- (1999) Kovatchev, B., Cox D., & **Robeva, R.** *The EEG Consistency Index – a New Diagnostic Tool for Attention Deficit/Hyperactivity Disorder (ADHD)*. Presented at the Research Conference of the Department of Health Evaluation Sciences, University of Virginia, Charlottesville, VA, November 1999.
- (1999) Loboschefski, T., **Robeva, R.** Kirkwood, B. Cox, D. & Kovatchev, B. The Transition coherence model: An EEG marker for ADHD? Presented to the Society for Research in Child Development, Albuquerque, NM, April 15 – 18, 1999.

### **Recent Invited Lectures:**

- (2008) **Robeva, R.** *Mathematical Models for Systems Biology and Gene Regulation*. Colloquium talk to be delivered on March 16, 2009, at the Department of Mathematics, Richmond University, Richmond, VA.
- (2008) **Robeva, R.** *A Slot Machine, a Test Tube, and the Timing of Evolutionary Changes*. Invited address delivered at the Fall Meeting of the Maryland, Washington-DC, Virginia Section of the MAA, November 6-7, 2008, Hood College, MD.
- (2008) **Robeva, R.** *Modeling of Hormone Feedback Networks (Understanding Endocrine Oscillators)*. Colloquium talk delivered on February 21, 2008, at the Department of Mathematics, Longwood College, Farmville, VA.
- (2007) **Robeva, R.** *Modeling of Hormone Feedback Networks (Understanding Endocrine Oscillators)*. Colloquium talk delivered on September 27, 2007, at the Department of Mathematics, Bates College, Lewiston, ME.
- (2007) **Robeva, R.** *Interdisciplinary Collaborations in Biomathematics: Rewards and Challenges*. Presented at the Faculty Workshop for the Departments of Mathematics and Biology, September 27, 2007, Bates College, Lewiston, ME.
- (2007) **Robeva, R.** *Probability and Statistics-based Models for Mathematical Biology*. Presented as part of the faculty short course “Implementing Biology Across the Mathematics Curriculum” offered at the Summer Meeting of the Mathematical Association of America (MathFest) in combination with the Society for Mathematical Biology Annual Meeting and its Joint Meeting with the Japanese Society for Mathematical Biology, August 1-2, 2007, San Jose, CA.
- (2007) **Robeva, R., Davies, R.** *An Integrated Course in Mathematical Biology at Sweet Briar College*. Presented at the faculty workshop “Over the Fence: Mathematicians and Biologists Talk About Bridging the Curriculum Divide” at the Mathematical Biosciences Institute, Ohio State University, June 1-2, 2007, Columbus, OH.
- (2007) **Robeva, R.** *Mathematical Models of Glucose Variability and Risk Assessment in Diabetes*. Presented at the Mathematical Biology Colloquium, Benedictine University, February 22, and at the Mathematics Colloquium, College of DuPage, February 23, 2007, Chicago, IL.
- (2007) **Robeva, R.** *Modeling of Hormone Feedback Networks (Understanding Endocrine Oscillators)*. Presented at the Mathematical Sciences Colloquium, Chicago State University, February 24, 2007, Chicago, IL.
- (2006) **Robeva, R.** *On Gaussian Random Fields, the Markov Property, and Spectral Synthesis in Function Spaces*. Presented at the Mathematics Colloquium, Illinois State University, April 13, 2006, IL.
- (2006) **Robeva, R.** *Accepting Biomathematics: The Questions, the Dilemmas, and the Challenges*. Presented at the Seminar for Application of Mathematics, University of Virginia, February 28, 2006, Charlottesville, VA.
- (2006) **Robeva, R.** *Biomathematics and Why We Should Teach it to Undergraduates*. Presented at the Genetics, Bioinformatics, and Computational Biology Seminar, Virginia Bioinformatics Institute, January 26, 2006, Virginia Tech, VA.

Curriculum Vita – Addendum  
**Raina Stefanova Robeva**

**Courses Taught at Sweet Briar College During the Period 2002 - 2008: \***

<u>Course number</u>	<u>Title</u>
CSCI 188	JAVA Programming
CSCI 289	Java Programming II
CSCI 264	Discrete Mathematical Structures
HNRS 320	Topics in Biomathematics
MATH 113	Precalculus
MATH 124	Calculus II
MATH 303	Probability
MATH 323	Sequences and Series
MATH 333	Algebraic Structures
MATH 320	Topics in Biomathematics
MATH 342	Mathematical Modeling
MATH 346	Numerical Analysis
MATH/CSCI 452	Mathematical Sciences Senior Seminar

**Sweet Briar College Committee Responsibilities for the Period 2002 - 2008:**

<u>Years</u>	<u>Committee</u>
2003 – 2004	Faculty Senate of Virginia
2003 – 2005	SBC Faculty Senate
2003 – 2005	SBC Health Care Committee
2004 – 2005	Chair, SBC Faculty Senate Budget Sub-Committee
2004 – 2005	Planning Committee
2005 – 2008	Personnel Committee
2005 – 2007	Committee for Investigation on Human Subjects
2006	Search Committee: Tenure-track Search, Biology
2006 – 2008	Assessment Committee
2006 – 2008	International Studies Advisory Committee

**Independent and Research Studies Conducted at Sweet Briar College for the Period 2002 - 2008:**

\* On sabbatical leave during AY 2002-2003

<u>Semester</u>	<u>Title</u>	<u>Student</u>
Spring 2004	Senior Seminar Project Mentor	Olga Rigg
	Senior Seminar Project Mentor	Jozanne Summerville
	Writing Variant, <i>Topics in Biomathematics</i>	Cynthia Beller
Spring 2005	Independent Study, <i>Numerical Analysis</i>	Mariana Lazarova
	Honors Variant, <i>Numerical Analysis</i>	Suzanne Harvey
	Honors Variant Supervisor, <i>Ordinary Differential Equations-Applications to the Health Sciences</i> (Primary supervisor – Steve Wassell)	Jamie Jensen
Spring 2006	Senior Seminar Project Mentor	Amy Hubbard
	Senior Seminar Project Mentor	Suzanne Harvey
	Senior Seminar Project Mentor	Jessica Mercier
Spring 2007	External Internship Faculty Supervisor Flowserve, Lynchburg, VA	Jessica Poore
Spring 2008	Senior Seminar Project Mentor	Emily Clifton
	Senior Seminar Project Mentor	Amanda Beller
Fall 2008	Independent Study, <i>Probability</i>	Sarah Smiley Kaelyn Leake
	Honors Variant Supervisor, <i>Bio-Statistics</i>	Laura Jett