

**PROMOTION REPORT - INDIVIDUAL
(September 1, 2004 - October 16, 2007)**

Candidate for promotion to: Associate Professor

I. GENERAL INFORMATION

Faculty Name: James P. Peirce Jr	Department: Mathematics
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Education

Ph D, University of California, Davis, Mathematics. (2004).

BS, University of Washington, Mathematics. (1997).

II. TEACHING

A. Teaching Narrative

[Download File \(peirce.jame/promotion/teachingfinal-1.pdf\)](#)

B. Teaching Schedule

Summer 2007

Course & Section	Title	New Course Prep.	New Format for Existing Course	Enrollment	Number of Credit Hours	Delivery Mode
MTH - Mathematics 175-101	Applied Calculus	No	No	21	4	Classroom

[Download File \(peirce.jame/schteach/syllabus175-1.pdf\)](#)

Spring 2007

Course & Section	Title	New Course Prep.	New Format for Existing Course	Enrollment	Number of Credit Hours	Delivery Mode
MTH - Mathematics 208-1	Calculus II	Yes	No	34	4	Classroom
MTH - Mathematics 208-2	Calculus II	Yes	No	38	4	Classroom

[Download File \(peirce.jame/schteach/208syllabus-1.pdf\)](#)

MTH - Mathematics 353-1	Differential Equations	No	No	15	3	Classroom
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Fall 2006

Course & Section	Title	New Course Prep.	New Format for Existing Course	Enrollment	Number of Credit Hours	Delivery Mode
MTH - Mathematics 150-1	College Algebra	No	No	35	4	Classroom
MTH - Mathematics 150-2	College Algebra	No	No	34	4	Classroom

[Download File \(peirce.jame/schteach/150syllabus-1.pdf\)](#)

MTH - Mathematics 175-3	Applied Calculus	Yes	Yes	35	4	Classroom
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[Download File \(peirce.jame/schteach/175BIOsyllabus-1.pdf\)](#)

Summer 1 2006

Course & Section	Title	New Course Prep.	New Format for Existing Course	Enrollment	Number of Credit Hours	Delivery Mode
MTH - Mathematics 150-01	College Algebra	No	No	21	4	Classroom

Spring 2006

Course & Section	Title	New Course Prep.	New Format for Existing Course	Enrollment	Number of Credit Hours	Delivery Mode
MTH - Mathematics 175-5	Applied Calculus	No	No	37	4	Classroom
MTH - Mathematics 175-6	Applied Calculus	No	No	38	4	Classroom
MTH - Mathematics 480-1	Topics in Applied Mathematics	Yes	Yes	7	3	Classroom

[Download File \(peirce.jame/schteach/480syllabus-1.pdf\)](#)

Fall 2005

Course &		New Course	New Format for Existing		Number of Credit	Delivery
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Section	Title	Prep.	Course	Enrollment	Hours	Mode
MTH - Mathematics 175-3	Applied Calculus	Yes	No	37	4	Classroom
MTH - Mathematics 175-4	Applied Calculus	Yes	No	35	4	Classroom
MTH - Mathematics 353-1	Differential Equations	No	No	23	3	Classroom

Summer 2 2005

Course & Section	Title	New Course Prep.	New Format for Existing Course	Enrollment	Number of Credit Hours	Delivery Mode
MTH - Mathematics 207-1	Calculus I	No	No	12	5	Classroom

[Download File \(peirce.jame/schteach/207syllabus-1.pdf\)](http://peirce.jame/schteach/207syllabus-1.pdf)

Spring 2005

Course & Section	Title	New Course Prep.	New Format for Existing Course	Enrollment	Number of Credit Hours	Delivery Mode
MTH - Mathematics 150-4	College Algebra	No	No	42	4	Classroom
MTH - Mathematics 150-7	College Algebra	No	No	40	4	Classroom
MTH - Mathematics 353-1	Differential Equations	No	No	19	3	Classroom

Fall 2004

Course & Section	Title	New Course Prep.	New Format for Existing Course	Enrollment	Number of Credit Hours	Delivery Mode
MTH - Mathematics 150-3	College Algebra	No	No	38	4	Classroom
MTH - Mathematics 150-5	College Algebra	No	No	38	4	Classroom
MTH - Mathematics 207-1	Calculus I	No	No	33	5	Classroom

Grants

Peirce Jr, J. P., UW-L Faculty Development Grant, "Project NExT (New Experiences in Teaching) Workshop", Funded, \$396.19. (start: August 8, 2006, end: August 9, 2006).

[Download File \(peirce.jame/congrant_teaching/proposal-1.pdf\)](#)

C. Additional Teaching Evidence

The survey I created and administered to the MTH 175 BioMath course to measure the connections between biological scenarios and mathematical graphs.

[Download File \(peirce.jame/promotion/175Bio_Week1Survey-1.pdf\)](#)

I used the "Muddiest Point" assessment in MTH 150 and 175 in the fall of 2006

[Download File \(peirce.jame/promotion/muddiestpoint-1.pdf\)](#)

An example of a writing project along with a handout on writing guidelines and grading rubric.

[Download File \(peirce.jame/promotion/Calc2WP-1.pdf\)](#)

The final version of a peer-review teaching portfolio.

[Download File \(peirce.jame/promotion/peirce_portfolio-1.doc\)](#)

III. SCHOLARSHIP

A. Scholarship Narrative

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B. Intellectual Contributions

Published and Accepted

1. Journal Article, Academic Journal

Peirce Jr, J. P. (2006). Local Well-posedness of the anisotropic Lagrangian averaged Navier-Stokes equations with Stokes projector viscosity. *To appear in Communication in Partial Differential Equations/Taylor & Francis Group, 31, 1139-1149.*

Type of Review	Acceptance Rate	Author Workload	Author Ordering	Audience of Circulation
Peer-reviewed	%	Peirce Jr, James P.	Authors in alphabetical order	International

[Download File \(peirce.jame/intellcont/peirce_cpde-1.pdf\)](#)

Other Scholarly Activities

1. Paper presented at academic conference

Peirce Jr, J. P. (Presenter & Author), Joint Mathematics Meeting, Mathematical Association of America/American Mathematical Society, New Orleans, LA, "Motion of a Vortex Line in an Averaged Velocity Field",

http://www.ams.org/amsmtgs/2098_programindex.html, Abstract.
(January 5, 2007).

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

[Download File \(peirce.jame/present/neworleans-1.pdf\)](#)

Peirce Jr, J. P. (Presenter & Author), MAA Wisconsin Section Meeting, Mathematical Association of America, Eau Claire, WI, "Motion of a vortex line in an averaged velocity field", <http://www.uwplatt.edu/maawisc/MAAWISpring2007Program.pdf>, Abstract. (April 20, 2006).

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

2. Editorial and Review Activities

"A Classroom Experience of Research for Undergraduate Mathematics Majors (and General Education Students)", Council on Undergraduate Research Quarterly, Ad Hoc Reviewer, Papers, National, Appointed, 1 items edited/reviewed, Professional. (October 9, 2007 - October 11, 2007).
I refereed one article.

"Mathematical Reviews", American Mathematical Society, Ad Hoc Reviewer, Papers, International, Appointed, 1 items edited/reviewed, Professional. (September 4, 2007).
Review research article, "Uniqueness for the Navier-Stokes equations and multipliers between Sobolev spaces," for MathSciNet posting.

"Lafayette College's REU", Council on Undergraduate Research Quarterly, Ad Hoc Reviewer, Papers, National, Appointed, 1 items edited/reviewed, Academic. (February 1, 2007 - February 8, 2007).
I refereed one article.

3. Research Currently in Progress

Peirce Jr, James P, "Student's perception change in connections between math and biology.", On-Going, Scholarly.

Peirce Jr, James P, "The motion of vortex filament in an averaged velocity field", Journal of Fluid Mechanics, Writing Results, Scholarly. (September 2007).

Contracts, Grants, and Sponsored Research

Haro, R. J. (Principal), Peirce Jr, J. P., Riley, B. V. (Co-Principal), External Grant, "UBM: Collaborations on Riverine Ecology", National Science Foundation, Not Funded, \$232,302.00, [peirce.jame/congrant_research/FinalProposal-1.pdf](#). (sub: April 4, 2007,

start: October 1, 2007, end: September 30, 2010).

[Download File \(peirce.jame/congrant_research/FinalProposal-1.pdf\)](#)

Peirce Jr, J. P., UW-L Grant, "Motion of a vortex filament in an averaged velocity field", Funded, \$6,772.00,
peirce.jame/congrant_research/proposal-1.pdf. (start: May 2006, end: September 2006).

[Download File \(peirce.jame/congrant_research/proposal-1.pdf\)](#)

Student Research

1. Undergraduate Research

Hallock, Trevor, Mathematics, "Motion of a Vortex Line," In-Process. (2007-2008).

Role: I meet with Trevor at least once a week to answer his questions and guide his work.

Dates and Locations Presented:

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[Download File \(peirce.jame/dsl_undergraduate/Vortex filaments and averaged velocity fields-1.doc\)](#)

Bickner, Devin, Mathematics, "The Motion of a Plucked Guitar String," Completed. (2005-2006).

Role: Faculty advisor. Regularly meet with Devin and guided his exploration.

Dates and Locations Presented:

Pi Mu Epsilon Conference – Oral Presentation. St. Norbert's College, De Pere, WI. (November 2005).

[Download File \(peirce.jame/dsl_undergraduate/wave-1.pdf\)](#)

C. Additional Scholarship Evidence

IV. SERVICE

A. Service Narrative

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B. Service

Department Service

Speaker Series, Member. (September 2006 - Present)

Recruit and arrange a visit by an outside speaker each fall.

Mathematical Biology course development, Member. (September 2005 - Present)

Develop topics for a course(s) in mathematical biology.

Math Club, Faculty Advisor. (September 2004 - Present)

Schedule meetings and bi-weekly speakers.

Calculus Curriculum Review, Member. (September 2005 - April 2006)

Review current calculus curriculum. Develop alternate arrangement of topics.

Search and Screen Committee, Member. (September 2005 - April 2006)
 Screening application materials for open Position Number: 07MTH01.
 Making recommendations of candidates for interviewing and hiring to the department.

University Service

1. Committee Involvement

Undergraduate Research, Member. (September 20, 2006 - Present)
 Review and fund grant applications in the fall and spring semester.
 Organize Celebration of Undergraduate Research and Creativity Day.

Student Senate Committees, Faculty Advisor. (September 2005 - Present)
 Faculty advisor for the following student committees:
 1) Academic Affairs (2005-2007)
 2) Apportionment Committee (2006-2007)
 3) Student Organization Committee (2007 - present)
 4) Student Services and Buildings Committee (2007 - present)

Professional Memberships

Mathematical Association of America, National. (1995 - Present).
 The Mathematical Association of America is the largest professional society that focuses on mathematics accessible at the undergraduate level.

C. Additional Service Evidence

V. ADDITIONAL INFORMATION

A. Awards and Honors

Scholarship/Research, Wisconsin Teaching Fellow, Office of Professional Development - UW System. (December 22, 2006).

Other, Project NExT Fellow, Mathematical Association of America. (August 2005).

B. Faculty Development

Professional, Workshop, "Undergraduate Research", Project NExT-Wisconsin, Menomonie, WI, United States, No. (September 28, 2007 - October 1, 2007).

Teaching, Attended Conference, "UW-L Teaching Conference, "Managing the Teaching Load,"", La Crosse, WI, United States, No. (August 28, 2007).

Professional, Workshop, "Summer Institute", UW System Office for Professional and Instructional Development, Madison, WI, United States, No. (June 25, 2007 - June 29, 2007).

Professional, Attended Conference, "Faculty College", Office for Professional and Instructional Development, Richland Center, WI, United States, No. (May 29, 2007 - June 1, 2007).

Professional, Workshop, "Keeping your research alive", MAA WI Project NExT, Eau Claire, WI, United States, No. (April 21, 2007).

Professional, Workshop, "Engagin mathematics, for our students and for us", Project NExT-Wisconsin, Menomonie, WI, United States. (October 5, 2006 - October 7, 2006).

Teaching, Workshop, "UW-L Conference on Teaching & Learning: Documenting Student Learning", Center for Advancing Teaching & Learning (CATL), La Crosse, WI, United States, No. (August 29, 2006).

Professional, Attended Conference, "MathFest 2006", Mathematical Association of America, Knoxville, TN, United States, No. (August 10, 2006 - August 12, 2006).

Professional, "MAA Meetings-Wisconsin Section", Mathematical Association of America, Whitewater, WI. (April 21, 2006 - April 22, 2006).

Teaching, Workshop, "Teaching Portfolio Colloquium", The Colloquia on Teaching and Learning Planning Committee, La Crosse, WI. (October 18, 2005 - April 14, 2006).

Professional, Attended Conference, "Joint Meetings", American Mathematical Association/Mathematical Association of America, San Antonio, TX. (January 11, 2006 - January 15, 2006).

Professional, Workshop, "Cooperative Learning", Project NExT-Wisconsin, Menomonie, WI, United States, No. (September 27, 2005 - September 29, 2005).

Professional, Attended Conference, "MathFest 2005", Mathematical Association of America, Albuquerque, NM. (August 1, 2005 - August 6, 2005).

C. Pre UW-L CV Link

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