

NAME: Kevin E. Charlwood

| EDUCATION: | <u>DEGREE</u> | <u>MAJOR</u> | <u>DEGREE GRANTING INSTITUTION</u> |
|------------|---------------|--------------|------------------------------------|
|            | B.S.          | Math/Phys.   | Carroll College                    |
|            | M.S.          | Math         | Univ. Of Minnesota                 |
|            | Ph.D.         | Math         | Univ. Of WI-Milwaukee              |

PROFESSIONAL APPOINTMENTS:

CURRENT: Associate Professor of Mathematics  
PREVIOUS: Assistant Professor of Mathematics (Saint Leo College, 1995 - 1997); Temporary Assistant Professor of Mathematics (Bradley University, 1994 - 1995)

CLASSES TAUGHT IN PAST TWO YEARS:

Applied Calculus I, Applied Calculus II, Mathematics of Finance, Calculus I, Calculus II, Calculus III, Discrete Mathematics, Modern Algebra.

PUBLICATIONS/PRESENTATIONS/JURIED SHOWS/etc. (past five years)

PUBLICATIONS:

"Beyond ASR and D-Cracking; Another Source of Concrete Pavement Deterioration?" with Barbara Smith, Kansas Department of Transportation (KDOT), Proceedings of Transportation Research Board, January 2001.

"Some Uses of *Maple* in the Teaching of Modern Algebra," MAA Notes #60, edited by Hibbard/Maycock, (2002) pp. 91 - 96.

ARTICLES: (selected non-refereed articles)

"*Proposal Reviews at the National Science Foundation*," Concerns of Young Mathematicians Newsletter, Vol. 10, Issue 7, Aug. 2002. Also to appear in MAA's FOCUS in Nov. 2002.

"*In the Line of Fire*," Concerns of Young Mathematicians Newsletter, Vol. 9, Issue 7, Oct. 2001.

"*Are the Good Times Really Back Again?*" Concerns of Young Mathematicians Newsletter, Vol. 9, Issue 3, Mar. 2001.

"*Problem Corner: Fun with Quaternions*," Concerns of Young Mathematicians Newsletter, Vol. 8, Issue 6, July 31, 2000.

"*A Neat Applied Problem from Industry*," Concerns of Young Mathematicians Newsletter, Vol. 8, Issue 5, June, 2000.

"YMN in DC," Concerns of Young Mathematicians Newsletter, Vol. 8, Issue 2, Feb. 2000.

"Handling those Pesky Phone Interviews," Concerns of Young Mathematicians Newsletter, Vol. 8 Issue 1, Jan. 14, 2000.

PRESENTATIONS:

*How Does a CAS Integrate?* at the Joint Winter Mathematics Meetings in Phoenix AZ, January 8, 2004.

*Partial Fractions Decompositions Revisited* at the Kansas MAA Annual Sectional Meeting at Fort Hays State University, Fort Hays KS, April 5, 2003.

*Some Integration Trials on Computer Algebra Systems* at the Joint Winter Mathematics Meetings in Baltimore MD, January 16, 2003.

*Projects in Polar Curves with Maple* at the Technology EXPO at Rockhurst University, Kansas City MO, October 5, 2002.

*Small Group Projects for Calculus* at the Kansas MAA Annual Sectional Meeting at Ottawa University, Ottawa KS, March 8, 2002.

*Recruitment of Mathematics Majors at a Four-Year Comprehensive University* at the Joint Winter Mathematics Meetings in San Diego CA, January 6, 2002.

*Group Projects in Calculus Using Technology* at the Technology EXPO at Rockhurst University, Kansas City MO, October 5, 2001.

*Polar Curves of the Form  $r = \cos(p \cdot \theta / q)$*  at the Kansas MAA Annual Sectional Meeting at Emporia State, Emporia KS, March 31, 2001.

*Cooperative Learning and Technology Use in the Teaching of Modern Algebra* at the Joint Winter Mathematics Meetings in New Orleans LA, January 10, 2001.

*Explorations in Polar Curves* at the Regional Kansas Area Teachers of Mathematics (KATM) meetings in Olathe KS, October 7, 2000.

*A Look Forward: Undergraduate Mathematics in 2010* (Special Session) at the Joint Winter Mathematics Meetings in Washington DC, January 22, 2000.

TEACHING INNOVATION PAST FIVE YEARS:

Small group assignments in all courses taught at Washburn University. Moderate use of technology (graphing calculators and the computer algebra system Maple) in courses such as math of finance, the calculus sequence, Applied Calculus I & II.

CONTRIBUTIONS TO LOCAL, STATE, AND NATIONAL COMMUNITIES  
(including University governance)

WU College of Arts & Sciences CFC ('99 - '02)  
CFC Curriculum Committee ('99 - '02)  
Review Committee ('99 - '01)  
University Council ('03 - present)  
Phi Kappa Phi Publicity Director (April 2004 - present)  
Corresponding Secretary to Kappa Mu Epsilon math honor society (Washburn chapter) (Spring 2004 - present)  
Advisor to Sagamore Men's Honor Society ('98 - '04)  
Chair of Math Day activities since 1997  
Member of AMS-MAA Committee on TA/PTI's (2001 - present)  
Member of AMS-MAA Joint Committee on Employment Opportunities (January 2004 - present)  
Member of AMS-MAA Coordinating Council on Meetings (January 2002 - present)  
Managing Editor of Concerns of Young Mathematicians (Co YM) Newsletter June 1995 - June 2004  
Organizer of annual poster sessions for the Young Mathematicians' Network (YMN) since 1997.