

CURRICULUM VITAE

Joe Yanik

Address

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Education

Ph.D., University of Kentucky, 1979 (Dissertation Title: Projective Algebras)
One semester of study at Bhaskaracharya Pratisthana, Pune, India, Spring, 1977
M.S., University of Kentucky, August, 1974
B.A., University of Kentucky, December, 1972

Academic Appointments

Professor, Emporia State University, May, 1999, to present
Associate Professor, Emporia State University, May, 1991, to May, 1999
Assistant Professor, Emporia State University, January, 1990, to May, 1991
Assistant Professor, Virginia Commonwealth University, 1983 to 1989
Assistant Professor, Louisiana State University, 1979 to 1983

Memberships

American Mathematical Society
American Association of University Professors (ESU Chapter and Kansas Conference President)
Association for Women in Mathematics
Kansas Mathematics and Science Education Coalition (Board of Directors)
Mathematical Association of America
Mathematical Education Reform Network
National Council of Teachers of Mathematics
Phi Kappa Phi

Awards

Innovation in Teaching Award for Emporia State University, December, 1999
Annual Award for Teaching of the College of Liberal Arts and Sciences, Emporia State University, May, 1993
Award for Outstanding Teaching, University of Kentucky, June, 1978

Recent Presentations

“Java Applets in Teaching Mathematics” (with David Strong) minicourse given at the Joint Meeting of the AMS-MAA, Phoenix, AZ, January 2004

- “Teaching Graduate Mathematics Classes Over the Internet”, presentation at the Math Expo, Kansas City, MO, October 2003
- “Crypto-the Mathematics and Politics of Modern Cryptography”, invited expository talk presented at UMKC, Kansas City, KS, March 2003
- “Java Applets in Teaching Mathematics” (with David Strong) minicourse given at the Joint Meeting of the AMS-MAA, Baltimore, MD, January 2003
- “Keys to Successful Grant-Writing,” workshop presented at the Math Expo, Kansas City, MO, October 2002
- “Mathematical Java” invited presentation for the University of West Virginia Mathematics Department, Morgantown, WV, November 2001
- “Mathematical Java” (with Chuck Pheatt), presentation at the Fourteenth Annual International Conference on Technology in Collegiate Mathematics, Baltimore, MD, November 2001
- “Teaching a Graduate Mathematics Class Over the Internet” at the Math Expo, Kansas City, MO, October 2001
- “Develop, Adopt, Adapt”, two MAA-NSF sponsored Faculty Development Grant Writing Workshops, at the MAA Iowa and MAA Wisconsin Sectional Meetings, April 2001
- “Why is a Manhole Cover Round?”, invited expository talk presented at UMKC, Kansas City, KS, March 2001
- Using Java to Teach Mathematics (with Chuck Pheatt) presented at the Thirteenth Annual International Conference on Technology in Collegiate Mathematics, Atlanta, GA, November, 2000
- “Mathematical Activities using Java” (with Chuck Pheatt), presentation at the Math Expo, Kansas City, MO, October, 2000
- “Java Tools for Mathematicians”(with Chuck Pheatt) presented at the Twelfth Annual International Conference on Technology in Collegiate Mathematics, San Francisco, CA, November, 1999
- “Mathematical JavaBeans tutorial” (with Chuck Pheatt) presented at the Math Expo, Kansas City, MO, October, 1999
- “An Ancient Chinese Theorem and its Application to Nuclear Security”, invited expository talk presented at UMKC, Kansas City, KS, February, 1999
- “Mathematical Java Beans” presented at the Eleventh Annual International Conference on Technology in Collegiate Mathematics, New Orleans, LA, November, 1998
- “Mathematical Java Beans” presented at the Math Expo, Kansas City, MO, October, 1998

- “Java Beans Tutorial” (with Chuck Pheatt) presented at the Fourth Annual CCSC Central Plains Conference, Emporia, KS, April, 1998
- “Calculus Reform at Emporia State University”, invited presentation given at the University of Kansas NSF workshop, Lawrence, KS, January, 1998
- “Java for Mathematicians”, (with Chuck Pheatt) one hour presentation at the Tenth Annual International Conference on Technology in Collegiate Mathematics, Chicago, Illinois, November, 1997
- “An Extension of Newton’s Method”, invited expository talk at UMKC, Kansas City, MO, March, 1997
- “Java Math”, at the Ninth Annual International Conference on Technology in Collegiate Mathematics, Reno, Nevada, November, 1996
- “The mathematics in Jurassic Park”, at the regional NCTM conference, Kansas City, MO, October, 1996
- “Money, Grocery Scanners, and Abstract Algebra”, invited expository talk at UMKC, Kansas City, MO, March, 1996
- “An Electronic Calculus Bulletin Board”, (with Phil Gustafson and Betsy Yanik), a one hour presentation at the Eighth Annual International Conference on Technology in Collegiate Mathematics in Houston, Texas, November, 1995
- “Calculus Reform in Kansas”, (organizer and leader) panel discussion at Kansas Section of the Mathematical Association of America Spring Conference, April, 1995, Wichita State University
- “Chaos in the Classroom”, at the Seventh Annual International Conference on Technology in Collegiate Mathematics, Orlando, Florida, November, 1994
- “Sneakers’ in the Classroom” , at the Sixth Annual International Conference on Technology in Collegiate Mathematics, Parsipanny, New Jersey, November, 1993
- “The use of conjectures in a cooperative learning environment” at the Interactive Learning Environments session, Joint MAA-AMS meeting, San Antonio, Texas, January, 1993
- “Interactive computer demonstrations in calculus” at the Sixth Annual Southeastern Small College Computing Conference at Carson Newman College, November, 1992
- “Dual Career Couples in the same Academic Department” (with E. Yanik), invited presentation at the National Conference of the Dual Career Couple in Higher Education at the University of Kentucky, October, 1992

Grants

- NSF grant (with Chuck Pheatt) (DUE-9950714), *Mathematical Activities Using JavaBeans*, submitted to the CCLI program, November, 1998
- NSF grant (with C. Schrock, B. Simpson, and E. Yanik)(DUE-9452234) *A Computer Laboratory for Mathematical Exploration*, an NSF Instrumentation Grant , 1994
- co-PI on NSF grant *A Collaborative Partnership between High School and University Mathematics Faculty* (with C. Schrock and E. Yanik(PI))(ESI-9154851), 1992
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Bibliography

- A Math Toolkit for Java Developers, in *Journal of Online Mathematics and its Applications*. Volume 1, Issue 2, August 2001 (<http://www.joma.org/vol1-2/articles/yanik/>)
- Using Java to Teach Mathematics (with Chuck Pheatt) in the *Proceedings of the Thirteenth Annual International Conference on Technology in Collegiate Mathematics*, 2000
- Java Tools for Mathematicians (with Chuck Pheatt) *Proceedings of the Twelfth Annual International Conference on Technology in Collegiate Mathematics*, 1999
- Mathematical Java Beans (with Chuck Pheatt) *Proceedings of the Eleventh Annual International Conference on Technology in Collegiate Mathematics*, 1998
- Java for Mathematicians (with Chuck Pheatt) *Proceedings of the Tenth Annual International Conference on Technology in Collegiate Mathematics*, 1997
- An Electronic Calculus Bulletin Board (with Phil Gustafson and Betsy Yanik) *Proceedings of the Eight Annual International Conference on Technology in Collegiate Mathematics*, 1995
- Chaos in the Classroom, *Proceedings of the Seventh Annual International Conference on Technology*, 1994
- “Sneakers” in the Classroom, *Proceedings of the Sixth Annual International Conference on Technology*, 1993
- Interactive Computer Demonstrations in Calculus, *Journal of Computing in Small Colleges*, vol. 8, No. 3 (1993) 28-31
- Retracts of fields, (with James K. Deveney), *Archiv Der Mathematik* 55(1990)
- Rationality of some genus 0 extensions of $K(x)$, (with James K. Deveney), *Proceedings of the American Mathematical Society*, 109(1990) 53-58
- Factors of Fields, (with James K. Deveney), *Canadian Mathematical Bulletin* Vol 33(1), 1990 79-83
- Deformations of rings, *Bulletin of the Australian Mathematical Society* 39 (1989)361-367
- Non-rational fixed fields, (with James K. Deveney), *Pacific Journal of Mathematics* vol. 139, No.1, (1989)
- Strongly projective algebras and invertible algebras, *Communications in Algebra* 16 (3) (1988), 493-501
- Fields countably generated over a proper subfield, (with James K. Deveney), *Bulletin of the Australian Mathematical Society* 33 (1986) 219-226
- Noninvertible retracts, *Proceedings of the American Mathematical Society* 87 (1981) 29-32
- Projective algebras, *Journal of Pure and Applied Algebra* 21 (1981) 339-358