

BIOGRAPHICAL SKETCH
NÁNDOR SIEBEN

Professional Preparation.

B.A. Mathematics, Computer Science, Physics, Loránd Eötvös University, Hungary 1990.
M.A. Mathematics, Arizona State University, 1994.
Ph.D. Mathematics, Arizona State University, 1997.

Appointments.

Northern Arizona University, Associate Professor, 2007 to date.
Northern Arizona University, Assistant Professor, 2001–2007.
Arizona State University, Lecturer, 2000–2001.
Arizona State University, Instructor, 1997–1999.

Publications. (articles are available at jan.ucc.nau.edu/~ns46)

Publications most closely related to the proposal:

- [1] *C*-Crossed Products by Partial Actions and Actions of Inverse Semigroups*, J. Austral. Math. Soc. Ser. A **63** (1997), no. 1, 32–46.
- [2] *C*-Crossed Products by Twisted Inverse Semigroup Actions*, J. Operator Theory **39** (1998), no. 2, 361–393.
- [3] *C*-Actions of r -discrete Groupoids and Inverse Semigroups*, with John Quigg, J. Austral. Math. Soc. Ser. A **66** (1999), 143–167.
- [4] *C*-Equivalences on Graphs*, with Doug Drinen, J. Operator Theory **45** (2001), no. 1, 209–229.
- [5] *Morita Equivalence of C*-Crossed Products by Inverse Semigroup Actions*, Rocky Mountain J. Math. **31** (2001), no. 2, 661–686.

Other publications:

- [1] *Polyomino Weak Achievement Games on 3-dimensional Rectangular Boards*, with Elaina Deabay Discrete Math. **290** (2005), 61–78.
- [2] *Computing Eigenfunctions on the Koch Snowflake: A New Grid and Symmetry*, with John Neuberger and James Swift, Journal of Computational and Applied Mathematics **191** (2006), No.1, 126–142.
- [3] *Perfect pairs of ideals and duals in numerical semigroups*, with Kurt Herzinger, Stephen Wilson, and Jeff Rushall, Communications in Algebra **34** (2006) no. 9, 3475–3486.
- [4] *Symmetry and Automated Branch Following for a Semilinear Elliptic PDE on a Fractal Region*, with John Neuberger and James Swift, SIAM Journal on Applied Dynamical Systems **5** (2006) no. 3, 476–507.
- [5] *Polyominoes with minimum site-perimeter and full set achievement games*, European Journal of Combinatorics, European J. Combin. **29** (2008), no. 1, 108–117.

Synergistic Activities.

Innovations in Teaching.

Development and maintenance of a department WeBWorK system and problem library.

Research Experience for Undergraduates.

Summer research resulting in a publication with student Elaina Deabay (2005).

Arizona Mathematics Undergraduate Conference.

Member of organizing committee (2004, 2005).

Service to the Scientific Community.

Reviewer for Math Reviews, Referee for Discrete Mathematics, Integers, Discrete Applied Mathematics, Computers and Graphics.

Collaborators & Other Affiliations.

Collaborators:

John Quigg, Arizona State University.

Doug Drinen, University of the South.

John Neuberger, Northern Arizona University.

James Swift, Northern Arizona University.

Elaina Deabay, REU student.

Advisors:

John Quigg, PhD Advisor, Arizona State University.

(M.S.) Thesis Advisees:

Edgar Fisher, Roger Bailey, Northern Arizona University.

Christopher Belford, Northern Arizona University.