

**Student Papers Presented at the Fall 2002 MAA/NES Section Meeting:**

**Lisa Balducci, Framingham State College**

*Relating Cellular Automata to Determining Patterns in Brain Functions*

**George Mechal and Azmy Sukkoor, Framingham State College**

*Speech Recognition: Theory and Design*

**Amuche Onyemelukwe, Framingham State College**

*Neural Networks and Parallel Computing*

**John Meany, Framingham State College**

*Taylor, Maclaurin, and Polynomial Approximations*

**Brian Bayerle, Providence College**

*Maximizing Products of Partitions*

**Mike Lopez, Bates College**

*The Babylonians Had It First*

**Rebecca Keleher, Eastern Connecticut State University**

*Complex Numbers and Geometry*

**Jason White, Bates College**

*Periodic Doubling Bifurcations of a Periodically Forced Biological Oscillator*

**Ron Pepino, University of Connecticut**

*Nonlinear Problems Inspired by the Millennium Suspension Bridge*

**Erin LeDell, Trinity College**

*New Variables in the Coupon Collector's Problem*

**Contributed Papers Presented at the Fall 2002 MAA/NES Section Meeting:**

**Philip P. Amato and Eiki Satake, Emerson College**

*Attitudes Toward Statistics and Course Achievement Among Japanese and American College Students*

**Laura McSweeney, Fairfield University**

*Introducing Statistical Concepts Using Interactive Excel Worksheets*

**Ronald W. DeGray, Saint Joseph College**

*Interactive Course Syllabi*

**Janet M. Pfeiffer of Upper Arlington High School (Ohio), and**

**Kenneth J. Preskenis of Framingham State College**

*Learning Disabled Students and Math Word Problems*

**C. Joanna Su, Providence College**

*The Long Exact -Sequence in the Second Variable and the Long Exact – Sequence of a Triple*

**Domina Eberle Spencer, University of Connecticut, and**

**Uma Shama, Bridgewater State College**

*The Helmholtz Classification of Vector Fields and the Maxwell Equations*

**Bonnie Shulman, Bates College**

*"Mathematics and War": a First Year Seminar*

**Joel S Silverberg, Roger Williams University.**

*Are we far enough offshore to pass this headland safely?*

*A mathematician's look at a 'quick and dirty' navigational trick.*

**Christopher Aubuchon, Johnson State College**

*Pattern Recognition and Sequences of Natural Numbers*

**Vince Ferlini, Keene State College**

*Notes on the Structure of  $P(n)$  - Part I*

**Erin Corman, Keene State College**

*Notes on the Structure of  $P(n)$  - Part 2*

**Mike Cullinane, Keene State College**

*Generalized Metric Spaces via Neighborhoods*

**David Keil, Framingham State College and University of Connecticut, and**

**Dina Q Goldin of University of Connecticut**

*Minimization of Interactive Transition Systems*

**William F Heess Jr., Marlborough MA**

*Monte Carlo Queuing Simulation Implementation as Turing Machines and Finite State Automata*