## MUMC, October 30, 2004

9:00 AM (near Dow 102). Check-in, pick up your folder and name tags, enjoy the continental breakfast. 9:30-11:30 AM. There will be three parallel sessions of four student talks, graduate school presentations and presentations on applications of mathematics.(Talks will be 20 minutes with 5 minutes for questions) Here are the talks in the morning session: 9:30, Dow 136, Charles MacCluer (MSU), Careers in Industrial Mathematics 9:30, Dow 170, William Green (Albion College), N Men, A Monkey and Some Coconuts 9:30, Dow 179, Nathanial Burch (GVSU), Exploring the Lanczos Derivative 10:00, Dow 136, Jack Kalbfleisch (U. Michigan), The Graduate Program in Biostatistics 10:00, Dow 170, Andrew Wells (Hope College), Order of the Group of Units in the Quaternions Modulo n 10:00, Dow 179, Thomas Kennedy (GVSU), Modeling Baseball as a Markov Chain 10:30, Dow 136, Katrina Piatek-Jimenez (CMU), A Survey of Graduate Programs in Mathematics Education 10:30, Dow 170, Kristina Lund (GVSU), The Geometry of H{R}^n 10:30, **Dow 179**, Daniela Banu (Hope College), Analysis of the Conditioning Effect of Future Polynomial Regularization 11:00, Dow 136, Aboufadel, Boelkins (GVSU), et. al., The Grand Valley State University REU 11:00, Dow 170, Chelsea Walton (MSU), Bases of Spaces of Modular Forms with Weight 3/2 11:00, Dow 179, Jonathan Oaks (Ferris State), Optimizing the World, One Human at a Time 11:30-12:30, Dow 171, Jennifer Quinn, a faculty member at Occidental College in California, "Proving What Counts by Counting to Prove." 12:30-1:30 Box lunch 1:30-3:45 PM. There will be four parallel sessions of four student talks. (Talks will be 20 minutes with 5 minutes for questions. We will have a brief break at 3 PM for refreshments.) Here are the talks in the afternoon session: 1:30, Dow 107, Mohan Shrikhande (CMU), Graduate Program in Mathematics at Central Michigan University 1:30, Dow 136, Mohammad Rammaha (U. Nebraska), The Graduate Program in Mathematics at the University of Nebraska-Lincoln 1:30, Dow 170, Kelly VanOchten (CMU), Optimal Pebbling Number of a Graph 1:30, Dow 179, Andrew Craker (U. Notre Dame) & Erin Wicker (Alma College), Piecewise-linear Spirals

2:00 Dow 107, Lisa DeMeyer (CMU), Research Experiences for Undergraduates at Central Michigan University 2:00, Dow 136, Jianping Dong (MTU), The Graduate Program in the Department of Mathematical Sciences at Michigan Technological University 2:00, Dow 170, Jessica Muntz (CMU), The (p,k) Pebbling Number of Diameter 3 Graphs 2:00, Dow 179, Jennifer Bakisae (John Carroll), Optimization and Regional Cost Analysis for Wind/Diesel Hybrid Systems in Remote Alaska 2:30, Dow 107, Brandi Holly and Ted Reinbold (Auto-Owners Insurance), Actuarial Careers at Auto-Owners 2:30, Dow 136, Matt Benander & Erin Militzer (U. Kentucky), The University of Kentucky Graduate School Program 2:30, Dow 170, Steven Klee (Valparaiso U.), Tight Subdesigns of the Higman-Sims Design 2:30, Dow 179, Michael Cortez & Michael Nelsen (Hope College), A Mathematical Model of a Tri-Trophic Interactions 3:00 Refreshment break 3:15, Dow 107, Brandi Holly and Ted Reinbold (Auto-Owners Insurance), An informal discussion with students interested in Actuarial Science 3:15, Dow 136, Michael Farmer (Oakland U.), Be safe: use LaTeX 3:15, Dow 170, Aaron Satterle (CMU), A Demonstration of the Countability of the Rationals 3:15, Dow 179, Tiffany Prest (MSU), Genes That Are, And Are Not 3:45-5:00, Dow 171, A mathematical game contest: Mathematical Fights. (Students will compete in teams of up to 6 students.) 5:00 End of conference.

## TECHNOLOGY AVAILABLE:

Below is a report on the technology available in the various Dow classrooms

DOW 102 and DOW 107 - These two rooms both have data projectors, visualizers, VCR/DVD combo units, slide projectors. The data projectors have cables to hook to a laptop, but there are no computers. DOW 136 has a data projector, visualizer and a VCR. (The data projector has a cable to hook to a laptop, but there is NOT a computer.)

**DOW 170** has a data projector, visualizer, VCR, laser disc player, slide projector and a computer. (The computer runs Windows, has internet access and Microsoft Office.)

**DOW 171** has a data projector, visualizer, VCR, laser disc player, slide projector and a wireless microphone. (The data projector has a cable to hook to a laptop, but there is not a computer.)

**DOW 175** has a data projector, visualizer, VCR, DVD player, laser disc player, slide projector and a wireless microphone. The data projector has a cable to hook to a laptop, but there is not a computer. (At this point, nothing is scheduled in DOW 175, but it is available in an emergency.)

**DOW 179** has a data projector, visualizer, VCR, slide projector and a computer. (The computer runs Windows, has internet access and Microsoft Office.)