

STEM Recruitment and Enrichment Project (STEM-REP)
Schedule for Speakers and Session Themes
2008-2009 Academic Year

| | | Workshop 1: June 1 – 12, 2009 | | Workshop 2: June 8 – 19, 2009 | | Workshop 3: June 15 – 26, 2009 | |
|---------------|----------|---|--|---|--|---|--|
| | | 9:00 am – 12:00 pm | 1:00 pm – 4:00 pm | 9:00 am – 12:00 pm | 1:00 pm – 4:00 pm | 9:00 am – 12:00 pm | 1:00 pm – 4:00 pm |
| Week 1 | M | Welcome & Introduction Introduction to computer hardware Dr. Roberto R Heredia | A primer on genetics Dr. David L. Beck | Welcome & Introduction Introduction to computer hardware Dr. Roberto R Heredia | A primer on genetics Dr. David L. Beck | Welcome & Introduction Introduction to computer hardware Dr. Roberto R Heredia | A primer on genetics Dr. David L. Beck |
| | T | Robotics with legos Dr. Fethi Belkhouche | Local environmental issues Mr. Gerardo Pinzon | Robotics with legos Dr. Fethi Belkhouche | Local environmental issues Mr. Gerardo Pinzon | Robotics with legos Dr. Fethi Belkhouche | Local environmental issues Mr. Gerardo Pinzon |
| | W | Decision support in operations management using Microsoft Excel Dr. Balaji Janamanchi | Practical uses for matrices Prof. Miguel San Miguel | Decision support in operations management using Microsoft Excel Dr. Balaji Janamanchi | Practical uses for matrices Prof. Miguel San Miguel | Decision support in operations management using Microsoft Excel Dr. Balaji Janamanchi | Practical uses for matrices Prof. Miguel San Miguel |
| | R | Applying statistical techniques to real-world problems Prof. Dae-Hoon Kwak | Several methods for solving quadratic equations Prof. Alma V. Jasso | Applying statistical techniques to real-world problems Prof. Dae-Hoon Kwak | Several methods for solving quadratic equations Prof. Alma V. Jasso | Surface water treatment Mr. Gerardo Pinzon | Several methods for solving quadratic equations Prof. Alma V. Jasso |
| | F | Exploring the universe Dr. Juan H Hinojosa | Computers, people, and programming Dr. Fuming Wu | Exploring the universe Dr. Juan H Hinojosa | Computers, people, and programming Dr. Fuming Wu | Exploring the universe Dr. Juan H Hinojosa | Computers, people, and programming Dr. Fuming Wu |
| Week 2 | M | A deeper understanding of mathematics through mathematical puzzles Dr. Firooz Khosraviyani | Vanilla UNIX Mr. Timothy E. Bogue | A deeper understanding of mathematics through mathematical puzzles Dr. Firooz Khosraviyani | Vanilla UNIX Mr. Timothy E. Bogue | A deeper understanding of mathematics through mathematical puzzles Dr. Firooz Khosraviyani | Vanilla UNIX Mr. Timothy E. Bogue |
| | T | The role of mathematics and science in the business world Mr. Mario E. Moreno | Drawing with AutoCAD Prof. Miguel San Miguel | The role of mathematics and science in the business world Mr. Mario E. Moreno | Drawing with AutoCAD Prof. Miguel San Miguel | The role of mathematics and science in the business world Mr. Mario E. Moreno | Drawing with AutoCAD Prof. Miguel San Miguel |
| | W | Working with geometer's sketchpad Mr. Pablo David Morales | The rock cycle: how earth materials change with time Dr. Marvin E Bennett | Working with geometer's sketchpad Mr. Pablo David Morales | The rock cycle: how earth materials change with time Dr. Marvin E Bennett | Working with geometer's sketchpad Mr. Pablo David Morales | The rock cycle: how earth materials change with time Dr. Marvin E Bennett |
| | R | Polynomial and rational functions Prof. Alma V. Jasso | Exploring new worlds: the search for extrasolar planets (in Planetarium) Mr. Gerardo A. Perez | Polynomial and rational functions Prof. Alma V. Jasso | Exploring new worlds: the search for extrasolar planets (in Planetarium) Mr. Gerardo A. Perez | Polynomial and rational functions Prof. Alma V. Jasso | Exploring new worlds: the search for extrasolar planets (in Planetarium) Mr. Gerardo A. Perez |
| | F | Contours and gradients Prof. Joe McCarry | Presentation of participants' experience & award of certificates | Contours and gradients Prof. Joe McCarry | Presentation of participants' experience & award of certificates | Applying statistical techniques to real-world problems Prof. Dae-Hoon Kwak | Presentation of participants' experience & award of certificates |

For information of this program, visit: <http://www.tamiu.edu/~rbachnak/STEMRRG/Files/REP%20Mathematics%20Enrichment%20Flier.pdf>