

Detailed Program: Friday

11:30 – 12:20 **lunch (on the terrace)**

12:30 – 1:20 **one-hour sessions:**

Session 1 **The Revised New York State P-12 Mathematics Curriculum:
Regency Room Implications for Two-Year College Teachers**

Presenters: Joe Browne, Onondaga Community College
 William Caroscio, Corning Community College
 Joseph Straight, SUNY Fredonia
 Jane Tanner, Onondaga Community College
 Stephen West, SUNY Geneseo

Presider: Emad Alfar, Nassau Community College

After a brief presentation on the changes that are occurring in the P-12 mathematics curriculum, panelists will speak on how these changes may affect the teaching and learning of mathematics at the two-year college level, including developmental math, precalculus, and calculus.

Session 2 **Engaging Students Through Active Learning**
Park I

Presenters: Kelly Groginski, Onondaga Community College
 Mary Crawford-Mohat, Onondaga Community College

Presider: Bev Broomell, Suffolk County Community College

This interactive workshop will inspire you to incorporate active learning strategies into your developmental mathematics course. Topics include quick and creative methods for forming classroom work groups, active learning activities and cooperative learning activities. Participants will have the opportunity to experience active learning and to take home activities that are easy to implement. Come to this workshop to strengthen the community in your classroom.

Session 3 **What Do You Do When Your Students Know Nothing?**
Park II

Presenter: Ted Szymanski, Tompkins Cortland Community College

Presider: Joan Page, Onondaga Community College

The dearth of vicarious experience infecting our entering students makes learning math concepts a challenge. Basic information that was once assumed universal can no longer be presumed as being part of the students' repertoire. Making change, expressing dollars in terms of dimes, descriptions and definitions of basic shapes must be covered before attacking word problems requiring these skills. The term "under-prepared" does not adequately describe the vacuum evidenced by current student performance. The presenter will describe the extent of the problem and offer possible solutions using tested techniques from the developmental classroom and math lab. Each participant will receive a newly published data card: "100 Things Every College Student Should Know".

1:30 – 2:00

half-hour sessions:

Session 4

Regency Room

The Emphasis on Understanding in a Calculus Laboratory Setting

Presenters: Dr. Arnavaz Taraporevala, NYC College of Technology
Denise Porter, NYC College of Technology

Presider: Joe Browne, Onondaga Community College

How does one measure “understanding”? Both the educator and the student will describe the differences in their comprehension of this word. How can one demonstrate true “understanding” in a lab setting? A step-by-step journey to reach this level of understanding will be discussed. Different strategies of teaching and learning, including incorporating projects and assignments, that are used to connect the topics covered in a regular Calculus course and the Laboratory class will be shared.

Session 5

Park I

**What Does a Three-Ring Circus Have to Do With Factoring?
Using Analogies to Teach Math Concepts**

Presenter: Judith Grice Zamurs, Hudson Valley Community College

Presider: Mary Crawford-Mohat, Onondaga Community College

This session will explain the use of analogies to introduce unfamiliar ideas by connecting with similar familiar concepts. A variety of example analogies for a various levels of math courses will be shared and then the group will brainstorm to create an additional list. Included topics are signed numbers, factoring, absolute value and Riemann sums.

Session 6

Park II

**The Enigma of Stanislaw Ulam: Mathematical Triumph in the Face of
Brain Injury**

Presenter: Alexander Atwood, Suffolk County Community College

Presider: Abe Mantell, Nassau Community College

In 1946, the mathematician Stanislaw Ulam was struck down by viral encephalitis. After emergency brain surgery, he underwent a recovery in which his mathematical powers were substantially transformed. Although he had difficulty in performing simple mathematical operations such as solving quadratic equations, his creative mathematical powers were substantially enlarged. In the next ten years, Ulam, in conjunction with von Neumann and others, would create the Monte Carlo Method and several other monumental achievements in applied mathematics. How did he create mathematics in the face of crippling mathematical limitations?

2:10 – 3:00

one-hour sessions:

Session 7

Regency Room

**The Preparation of Mathematics Teachers:
A Partnership Between Two-Year and Four-Year Colleges**

Presenters: Joseph Straight, SUNY Fredonia
Mona Fabricant, Queensborough Community College

Presider: Jonas Reitz, New York City College of Technology

In New York State, an increasing number of prospective mathematics teachers begin their academic preparation at two-year colleges. At the same time, teacher preparation programs at four-year institutions face a number of challenges, including the need to attain and maintain national accreditation. This makes articulation efforts between two-year and four-year colleges more important than ever. The panel will discuss articulation issues and survey some "best practices."

Session 8

Park I

Distance Learning: Benefits and Pitfalls

Presenters: Urmi Ghosh-Dastidar, NYC College of Technology
Ezra Halleck, NYC College of Technology

Presider: Les Frimerman, Nassau Community College

Distance learning increasingly is a means for people to fulfill their educational potential. 20% of students now take at least one online course. A smaller but growing number of students enroll in completely online degree programs. Learning and teaching mathematics online brings its own particular challenges. In this presentation, we address difficulties as well as some benefits of online mathematics education in general and assessment in particular and discuss some possible remedies. Surprisingly, issues arising in the hybrid setting have been more difficult to sort out than in the totally online setting.

Session 9

Park II

Assessment: Can It Really Enhance Student Learning?

Presenter: Ernie Danforth, Corning Community College

Presider: Jack Lubowsky, Nassau Community College

The presentation will focus on the entire Assessment process of a College Mathematics I (Intermediate Algebra) class at Corning Community College. Included will be a discussion of the student learning outcomes, their assessment and the effect on teaching and learning.

3:00 – 3:30

break: please visit the vendor exhibits

3:30 – 3:55

half-hour session:

Session 10a

Regency Room

**Understanding Precalculus and Calculus
Using the Peer-Led Team Learning Model**

Presenters: Janet Liou-Mark, NYC College of Technology
A.E. Dreyfuss, City College of New York
Lori Younge, NYC College of Technology
Jian Hong, NYC College of Technology
Javier Joya, NYC College of Technology

Presider: Alexander Atwood, Suffolk County Community College

Precalculus and Calculus are considered bottleneck courses that prevent many students from continuing in the science, technology, engineering, and mathematics (STEM) disciplines. At New York City College of Technology, a team comprising of student leaders, a professor, and a learning specialist are collaborating to help students understand the concepts taught in these courses. Workshops using the Peer-Led Team Learning (PLTL) approach encourage students to work collaboratively on modules. The presenters will share the challenges and rewards of implementing workshops in Precalculus and Calculus.

3:55 – 4:20

half-hour session:

Session 10b

Regency Room

**Supporting Women in Science, Technology, Engineering and
Mathematics (STEM)**

Presenters: Janet Liou-Mark, NYC College of Technology
Lori Younge, NYC College of Technology

Presider: Alexander Atwood, Suffolk County Community College

Women in the STEM disciplines often feel “alone” especially in high-level mathematics and engineering courses. How can colleges and universities retain and support these undergraduate women to succeed in their field? Concerns and suggestions to sustain women in STEM will be shared by a team comprised of a female mathematics professor and an applied mathematics student. This presentation is supported by US Department of Education grant P120A060052.

3:30 – 4:20

one-hour sessions:

Session 11
Park I

Across the Great Divide: Collaborative Explorations by High School and College Math Teachers

Presenter: Jonas Reitz, NYC College of Technology

Presenter: Joseph Straight, SUNY Fredonia

How can we help students make the transition from high school to college math classrooms? Let's take advantage of the wisdom and experience of teachers from both institutions. I will describe a model for collaborative inquiry, focusing on a seminar series in which teachers from high schools and colleges were brought together to examine the culture, philosophies and practices in place on either side of 'the great divide'. Process, outcomes and future possibilities will be discussed.

Session 12
Park II

Controlling Population with Pollution

Presenter: Joe Browne, Onondaga Community College

Presenter: Andrea DeCosmo, Hudson Valley Community College

The unlimited exponential growth studied in algebra and calculus courses is unrealistic in the long run and often replaced with a logistic function which levels off. Some bacteria populations which have been studied, however, go into sharp decline after leveling off, apparently due to self-poisoning or pollution accumulated over time. A mathematical model of this will be presented.

4:30 – 5:00

half-hour session:

Session 13
Regency Room

Review Quizzes that Work!

Presenter: Jodi Cotten, Westchester Community College

Presenter: Jane Tanner, Onondaga Community College

Do you hate 'review days' before the exam? Get tired of the only question being "Is this on the exam?" Come to this session and walk out with a review day that works!

4:30 – 5:20

one-hour sessions:

Session 14
Park I

Project ACCESS - What is it and What Does it Mean for NYSMATYC?

Presenters: Mark Marino, Erie Community College
Kathleen Speicher, Corning Community College
Karen Hale, Onondaga Community College
Brigitte Martineau, Monroe Community College

Presider: Ernie Danforth, Corning Community College

Project ACCESS is an AMATYC project designed to orient new two-year college mathematics educators into the teaching profession and to AMATYC as a professional organization. Come hear former and current ACCESS fellows describe their experiences and help us brain storm how NYSMATYC can develop professional experiences for new two year college faculty in New York State.

Session 15
Park II

How Do You Assess Your General Education Students?

Presenters: Ralph Bertelle, Columbia-Greene Community College
Maryann Justinger, Erie Community College

Presider: Sean Simpson, Westchester Community College

As part of the SUNY Strengthened Campus-Based Assessment, student performance is assessed with respect to five general education learning outcomes. Faculty are not always sure what type of questions to use for a particular learning outcome. This session is for faculty to share the methods and exam questions they use for this assessment. If you have not already submitted questions for this session, please bring them with you. Questions will be posted on-line (with permission) to be used as a resource.

5:30 – 6:30

executive board meeting

7:00 – ?

dinner (Regency Room)

Detailed Program: Saturday

6:00 – ???

Estimation Run

7:00 – 7:50

breakfast (on the terrace)

8:00 – 9:50

two-hour sessions:

Session 16

Regency Room

Commercial Presentation: Maplesoft -- Math Just Clicks!

Presenter: Louise Krmpotic, Maplesoft

Presider: Judy Zamurs, Hudson Valley Community College

From course work and homework to placement testing, Maplesoft's product suite and web resources provide a wide variety of easy-to-use materials to enhance the learning environment. Explore and visualize concepts, provide online practice problems, automatically grade homework, easily place incoming freshmen into the right courses, and get the help and resources you need - all with just a few simple clicks! Come and see why math just clicks with Maplesoft!

Session 17

Park I

Math On the Web Themed Session

Presenters: Mark Marino, Erie Community College
Mary Beth Orrange, Erie Community College
Jane Tanner, Onondaga Community College
Jodi Cotten, Westchester Community College
Mark Roland, Dutchess Community College
Dianna Cichocki, Erie Community College

Experienced distance teachers will discuss innovative methods they successfully use to teach students on the web. Included will be tips for teaching a wide variety of courses and pointers for first-time teachers.

8:00 - 8:15 Cooperative learning in online mathematics courses (Marino)

8:20 - 8:35 Communicating with your online students (Orrange)

8:40 - 8:55 Use of e-fax for an online course (Tanner)

9:00 - 9:15 Teaching a hybrid course (Cotten)

9:20 - 9:35 Liberal Arts mathematics online (Roland)

9:40 - 9:55 Projects in a online statistics course (Cichocki)

8:00 – 8:50

one-hour session:

Session 18
Park II

Precalculus with the TI Navigator System

Presenter: George Hurlburt, Corning Community College

Presenter: Sophia Georgiakaki, Tompkins Cortland Community College

The TI Navigator System allows a teacher to wirelessly interface with 32 student calculators. Using the system, you can conduct interactive activities, perform quick polls, send information to students, receive information from students, and administer quizzes. The speaker will give a brief overview of the use and capabilities of the system, and describe how he is using the system in his Precalculus class.

9:00 – 9:50

one-hour session:

Session 19
Park II

New Technology Tools to Inspire Mathematics Learning

Presenter: William Caroscio, Corning Community College

Presenter: George Hurlburt, Corning Community College

The new TI-Nspire and TI-Nspire CAS offer an integrated platform for multiple representations of mathematical problem situations. Verbal, numeric, algebraic, and geometric representations can be integrated into a document to provide students with an interactive learning environment.

9:50 – 10:10

break: please visit the vendor exhibits

10:10 – 11:00

one-hour sessions:

Session 20
Regency Room

Commercial Presentation: What's new at Plato Learning?

Presenters: Thomas Ahern, Plato Learning
Bev Broomell, Suffolk Community College
Barbara Barone, Hunter College

Presenter: Tim Grosse, Jefferson Community College

Plato has changed since 1963 when Plato Learning began publishing rich, multi-media computer based and e-learning curriculum. Please join us for an exciting workshop to see Plato's full course, (Academic Systems) and supplemental math courseware, (Plato Web Learning Network). Instructors will share how they use the two systems differently to provide alternative learning experiences for developmental education students, supplement classroom instruction, create self-paced summer school sessions, offer virtual tutoring and provide preparation and/or remediation for poor college placement test scores.

Session 21
Park I

Commercial Presentation: Key College --“Think Outside the Book: Complete, Textbook-free, Online Mathematics Courses from Content on Demand™”

Presenter: John Remington, Key College

Presenter: Ken Mead, Genesee Community College

Content on Demand™, in partnership with Key College Publishing, is the first math publisher to create and deliver ready-to-use, full-term online courses made specifically for delivery over the internet. Previously, “online course” meant a hodge-podge of former print and lab product put online by book publishers in a proprietary or hard to use platform-all designed to support the selling of ... more books! These were neither easy for the student to navigate and use or successful, especially concerning success and retention. Content on Demand offers a solution: complete, textbook-free online courses suitable for any teaching and learning environment: online, hybrid, computer-mediated, or traditional courses.

Session 22
Park II

Commercial Presentation: Smarthinking -- Supporting Your Students 24/7 ...Now That's SMARTHINKING!

Presenters: Carolyn Linkous, Smarthinking
Ed Weisman, Smarthinking

Presenter: Urmi Ghosh-Dastidar, NYC College of Technology

As the leading provider of online tutoring for higher education, SMARTHINKING provides academic support to students in over 1,000 institutions in the U.S. and abroad. Our goal is to help schools improve student learning and success through 24/7 learner assistance. With a computer and internet access, students have on-demand access our on-line services. SMARTHINKING is a perfect complement to face-to-face tutoring centers and affords schools the ability to provide content assistance independent of student location. This session will introduce you to the Smarthinking interface.

11:00 – 12:00
Regency Room

business meeting

12:00 – 12:45

lunch (on the terrace)

12:50 – 1:40

one-hour sessions:

Session 23

Regency Room

Origami for Dummies

Presenter: Joseph Straight, SUNY Fredonia

Presider: Mary Beth Hampshire, Hudson Valley Community College

Love origami but have trouble doing it? Then this presentation/workshop is for you. Our new and improved instructions, using precise mathematical language and well-constructed, labeled figures, will have you folding like an expert in no time.

Session 24

Park I

Short Answer Math Software – Good Enough for Your Students?

Presenter: John C. Miller, The City College of CUNY

Presider: Revathi (Reva) Narasimhan, Kean University

Conscientious instructors must see students' intermediate steps – in class, in offices, on homework, on exams – to provide optimum feedback. But the “short final answers only” accepted by most current practice software contain insufficient information for intelligent responses. These programs' stored solutions, often not even done by the student's method, merely emulate workbooks. Several examples, some illustrating limitations and some showing significant improvements, will be highlighted, followed by a call to action for concerned faculty.

Session 25

Park II

What is MOC? Math Online Competition!

Presenters: Dr. Jerry Chen, Suffolk County Community College
Myung-Chul Kim, Suffolk County Community College
Vera Hu-Hyneman, Suffolk County Community College
Dr. Russell Coe, Suffolk County Community College
Christine Brady, Suffolk County Community College

Presider: Abe Mantell, Nassau Community College

The MOC is an online competition where students answer one challenging problem per week. The purposes of this competition are to stimulate students' interest in real life applications of mathematics, to appreciate the beauty of mathematics, and to have fun!

1:50 – 2:40

one-hour sessions:

Session 26

Regency Room

Nuts & Bolts for Calculus Instructors

Presenter: James Salvadon, Rockland Community College

Presider: Paul Seeburger, Monroe Community College

A Texas Instrument calculator will be used to explore typical topics covered in a first semester calculus course. Topics include but not limited to limits, derivative, non linear graphing, sequence, finding the area under a curve of a continuous functions and the fundamental theorem of calculus. Please bring a Texas instrument calculator if you have access to one. The TI-84 Silver Edition/86 will be the calculators of choice for this presentation.

Session 27

Park I

Statistical Mythbusters

Presenter: Mario Triola, Dutchess Community College

Presider: Kathleen Speicher, Corning Community College

The presenter will discuss the role of statistics in confirming or disproving common beliefs, such as the belief that the mean body temperature is 98.6 degrees, women talk more than men, the popular diets are effective, college students gain 15 pounds during their freshman year, copper bracelets are an effective treatment, magnets relieve pain, and Friday the 13th is an unlucky day.

Session 28

Park II

Tested Experiences in Developmental Math

Presenters: Ted Szymanski, Tompkins Cortland Community College
Sophia Georgiakaki, Tompkins Cortland Community College

Presider: Bev Broomell, Suffolk County Community College

Hands on workshop featuring three exercises each in Basic Math and Elementary Algebra. Participants will be provided with instructions and complete description of all exercises.

2:50 – 3:40

one-hour sessions:

Session 29

Regency Room

**Commercial Presentation: Cengage Learning: Enhanced WebAssign:
Reliable Homework Management Made Simple**

Presenters: Joe Rogove, Cengage
Maria Andersen, Muskegon Community College

Presider: Beth Kane, Hudson Valley Community College

Easy to use, assign, and manage. Enhanced WebAssign has helped over one million students at 1,000 schools complete their homework for 10+ years.

Session 30
Park I

**Commercial Presentation: Educo, International, Inc: Experience
Awesome Improvement in Student Performance and Retention with EducoSoft**

Presenter: Elton B. Hugee, Educo, International, Inc

Presider: Ernie Danforth, Corning Community College

Thinking about integrating technology into your math programs? We welcome you to experience EducoSoft! This uniquely designed platform contains course content from Basic Mathematics thru 3D Calculus. It is a complete online instructional, tutorial, assessment and learning management system for developmental and higher-level mathematics courses, designed for ease of use with automation of key teaching and learning activities. We welcome you to our presentation as we demonstrate the friendly features of this system and show you numerous ways that it could help reduce attrition in your math programs.

Session 31
Park II

**Commercial Presentation: Hawkes Learning Systems: How to
Motivate Students by Using Software**

Presenter: Kristen Elmore, Hawkes Learning Systems

Presider: John Miller, The City College of CUNY

Discover the benefits of using interactive software in teaching and learning mathematics. Hawkes Learning Systems promotes grade improvement and motivates students to learn by providing tutorials, unlimited practice, helpful feedback provided by artificial intelligence, and mastery-based homework. Come see a demonstration of our state-of-the-art test generator, online grade book and student courseware!

3:40 – 4:10

break: please visit the vendor exhibits

4:10 – 5:00

one-hour sessions:

Session 32
Regency Room

Wikis and Other Online Freebies for Your Math Courses

Presenter: Revathi (Reva) Narasimhan, Kean University

Presider: Jodi Cotten, Westchester Community College

A wiki is an easy to use online tool with which an instructor can make web pages on the fly as well as use it for collaborative work among students and faculty. In this talk, a brief introduction to the creation and use of wikis will be given. Other freely available resources for math classes will also be discussed. Attendees may bring a laptop to participate in creating their own wiki.

Session 33
Park I

Team Trivia Challenge -- Round 2

Presenters: Kate Danforth, Corning Community College
Lori Barrett, Corning Community College

Teams will compete for fun and prizes! Trivia and math puzzles of varying levels of difficulty will challenge the participants. Come and join the fun.

4:10 – 4:35

half-hour session:

Session 34
Park II

Teaching Basic Math using Compelling Context

Presenter: Prabha Betne, LaGuardia Community College

Presider: Peter Arvanites, Rockland Community College

This presentation will demonstrate teaching basic math using compelling contexts like environment issues. At LaGuardia Community College, Introduction to Algebra is taught by applying mathematics to understand the environmental issues like climate change, energy consumption, and green house effect. Students used mathematics to estimate the impact of our consumption habits on the environment and suggest daily activity change that can reduce environmental damage.

4:40 – 5:05

half-hour session:

Session 35
Park II

2007-2008 Curriculum Survey Report

Presenter: Timothy Grosse, Jefferson Community College

Presider: Sophia Georgiakaki, Tompkins Cortland Community College

The results from the 2007-2008 Curriculum Survey on college-preparedness in mathematics will be discussed.

5:10 – 6:00

executive board meeting

7:00 – ?
Regency Room

banquet and keynote speaker:

Dr. Jeff Suzuki: "The Changing Nature of 'College Algebra': Lessons From the Nineteenth Century"

Detailed Program: Sunday

7:40 – 8:20 **breakfast (on the terrace)**

8:25 – 9:15 **one-hour sessions:**

Session 36 *Dynamic Visualization Tools for Calculus*

Regency Room

Presenter: Paul Seeburger, Monroe Community College

Presenter: Ted Szymanski, Tompkins Cortland Community College

I will demonstrate a series of visualization tools I created to visually explore calculus concepts including rectilinear motion, Riemann sums, washer and shell methods, volumes with a common cross-section, slopefields, 3D-graphs of functions of two variables, etc. One applet creates graphs (rectangular, polar, piecewise, or parametric) for worksheets and tests. These graphs can be pasted as vector graphics that print nicely. Finally, I will introduce my new NSF funded project for visualizing Multivariable Calculus.

Session 37 *Taking the Anxiety out of Math Anxiety*

Park I

Presenter: Peter Arvanites, SUNY Rockland Community College

Presenter: Kim Martello, Monroe Community College

Many students at the college level experience varying degrees of math anxiety. The speaker will address its causes, some of which are cultural, and then discuss strategies which can be used to decrease and even eliminate the anxiety. In addition, he will discuss test anxiety, which is often a counterpart of math anxiety. As a result of attending this presentation, participants will be better prepared to deal with students who experience math anxiety.

**Session 38 *For Real Estate Investments, It's Location, Location, Location,
For Statistics Projects, It's Design, Design, Design***

Park II

Presenter: Les Frimerman, Nassau Community College

Presenter: Mary Beth Hampshire, Hudson Valley Community College

As educators, we need to design lectures and assignments to ensure our students are motivated to succeed and receive educational experiences that transcend the structured environment of the classroom and help prepare them to be successful in a competitive environment under a multitude of organizational structures. The presentation you are about to see describes a unique approach that I used to design a statistics term project that helps students achieve these meaningful and lasting benefits.

9:20 – 9:45

half-hour sessions:

Session 39

Regency Room

Service-learning in Statistics

Presenter: Pamela Burch, Virginia Commonwealth University

Presider: Kathleen Speicher, Corning Community College

Service-learning is a valuable, hands-on approach to teaching statistics. The presenter will share the successes and failures she has experienced and discuss what is involved in teaching a service-learning class. Additionally, she will provide tips and ideas for launching your own service-learning class.

Session 40

Park I

George Polya as Forerunner to the Prime Computing Program

Presenters: Igor Balsim, Kingsborough Community College
Elie Feder, Kingsborough Community College

Presider: Marina Vulis, The University of New Haven

We propose a creation of a mathematical educational PRIME Computing Program (PCP) with the goal of bolstering the student research experience for undergraduate mathematics and science majors in the area of the mathematical computational sciences. This method of synthesizing mathematical research with education is in direct alignment with the educational philosophy and methodology of the Program's progenitor, the illustrious research mathematician, George Polya. We will focus on three main skills: Problem Solving, Algorithms, Applications, by using examples from probability, statistics, graph theory, discrete mathematics.

Session 41

Park II

**New Pedagogical Methods: Mathematics in Context -
Applying Mathematics to Environmental Engineering**

Presenter: Yasser Hassebo, LaGuardia Community College

Presider: Ezra Halleck, NYC College of Technology

Because of the wide range of mathematic courses and problems, getting students to focus their attention for the entire class period is a challenge. However, I believe that this goal can be achieved through the use of compelling "live" problems drawn from environmental issues. The Pedagogical objectives of "Mathematics in Context - Applying Mathematics to Environmental Engineering" is to introduce students to essential topics of mathematics , geometric context, Pythagorean theorem, linear functions, exponential functions and trigonometric functions using ecological engineering and environmental themes as a framework.

9:45-12:00

coffee/tea/water available in the hall outside the presentation rooms

9:50 – 10:15

half-hour sessions:

Session 42
Regency Room

First Day Activities for an Algebra-based Statistics Class

Presenter: Kathleen Speicher, Corning Community College

Presider: Elie Feder, Kingsborough Community College

In need of some first day activities for your Algebra-based Statistics class? In this presentation you will learn three activities to do with your students to illustrate the importance of data collection without unintentional human bias.

Session 43
Park I

An Overview of Conditionals and Biconditionals in Probability

Presenter: Nataniel Greene, Kingsborough Community College

Presider: Steve Krevisky, Middlesex Community College

Conditional and biconditional statements are a standard part of symbolic logic but conditionals have only recently begun to be fully explored for applications in artificial intelligence. We ourselves have been experimenting in introducing the topic into our own classes in probability. Here we present an overview of the major theorems and formulas involved and illustrate them using several standard model problems from conditional probability.

Session 44
Park II

Creating a Learning Community with Developmental Math and Basic Writing Skills

Presenter: Sophia Georgiakaki, Tompkins Cortland Community College

Presider: Melanie-Ann Williams, Broome Community College

Can English and Math come together in the Developmental Level? A significant number of students entering open enrollment institutions are required to attend both Developmental English and Developmental Math courses. TC3 attempts for the first time a Learning Community between the two disciplines, with focus on developmental students. The presenter will share experiences and gains from the January '08 AMATYC MAC³ winter workshop, with respect to the development of the curriculum.

10:20 – 10:45

half-hour sessions:

Session 45

Regency Room

A Comparison of Mathematics Teacher Education

Presenter: Emad Alfar, Nassau Community College
Chia-ling Lin, Nassau Community College

Presider: Marie Redick, Hudson Valley Community College

Past and current research in comparative mathematics education has continually emphasized student achievement and cognitive differences. One important factor, however, that seems to have been overlooked in the research is the extent to which teacher education programs in mathematics influence student achievement. We provide examples of some countries and summarize our findings by highlighting the similarities and differences of these countries' trends in mathematics teacher education.

Session 46

Park I

Information Content: An Advanced Statistical Approach in Pattern Classification

Presenter: Hisham M. Sayed, Baruch College of CUNY

Presider: Igor Balsim, Kingsborough Community College

According to the Information Theory, a new Statistical Model has been developed to classify a set of patterns depending on their Information Content. The proposed model gains a better classification results comparing to the results gained using the Discriminant Analysis Model, giving a total ratio of success 92.2% comparing to the Discriminant Model which gave a total ratio of success 88.2 %.

Session 47

Park II

Mathematical Theory of Acoustic Diffusers

Presenter: Enhung (Stephen) Sun, Nassau Community College

Presider: Sue Kutryb, Hudson Valley Community College

Schroeder Diffusers are widely used in symphony halls, opera houses and professional recording studios to improve the acoustics, and the design of these diffusers is based on Number Theory, and that is the purpose of the presentation.

10:50 – 11:40

one-hour sessions:

Session 48

Regency Room

Keeping a Database of Your Students with a Few Well Chosen EXCEL Functions

Presenter: Jack Lubowsky, Nassau Community College

Presider: Nataniel Greene, Kingsborough Community College

Keeping a grade book with EXCEL will allow you to do a lot more than just compute weighted averages of your students. Functions are available to:

- drop the lowest grade, or grades,
- convert a numerical grade to a letter grade,
- substitute a grade on the final exam for a missed exam,
- save the grades as an html file for posting to the web,
- and more, all automatically.

Session 49

Park I

Managing the Unmanageable - Coping Strategies

Presenter: Sean Simpson, Westchester Community College

Presider: Jane-Marie Wright, Suffolk County Community College

Any department chair will tell you that managing a group of full-time faculty is a challenge. How is anyone capable of coping with a group of adjunct faculty, especially when there are many more of them? In this talk, the presenter will discuss some coping strategies for the current (future) adjunct coordinator. He will draw on his experience as adjunct coordinator in a department where the adjuncts outnumber the full-time faculty by more than 4 to 1!

Session 50

Park II

It's a hit! Baseball Statistics of New York players

Presenter: Steve Krevisky, Middlesex Community College

Presider: Beth Kane, Hudson Valley Community College

Many great baseball players have come from or played in New York! Come hear about the mathematical and statistical exploits of such greats as Gehrig, Greenberg, McGraw, Brouthers, Mantle, Jeter, A-Rod and others! How do the great New York teams stack up in baseball history? Intended for teachers of algebra, statistics and quantitative literacy.