

GREATER KANSAS CITY MATHEMATICS TECHNOLOGY EXPO



Technology in the Mathematics Curriculum

October 16 and 17, 1992

Friday, 8 a.m. - 4 p.m.

Saturday, 8 a.m. - 2 p.m.

Kansas City Kansas Community College

7250 State Avenue

Kansas City, Kansas

Sponsored by KRCHE

GREATER KANSAS CITY MATHEMATICS TECHNOLOGY EXPO

at Kansas City Kansas Community College

Technology in the Mathematics Curriculum

The Kansas City Regional Council for Higher Education (KRCHE) is sponsoring a two-day conference on the use of computers and/or calculators in college mathematics. Friday sessions will be dedicated to technology in teaching mathematics at the college level. Saturday sessions include the use of technology in the teaching of mathematics in high schools as well as colleges.

Friday

October 16

1992

8:00 a.m.

Registration

begins and will

continue until

1:30 p.m. (Hall

near AH 2705)

Keynote Address: 9:00 a.m.

"How the Technology Revolution
Should Influence Mathematics
Education"

Dr. Jerry Johnson,

Oklahoma State University

Parallel Workshops /

Presentations - I: 10:30 - 11:20 a.m.

A. "Differential Equations
with Derive and Matlab"

Charles Moore,

Kansas State University

B. "Mathematica and
Linear Algebra"

John Koelzer,

Rockhurst College

C. "Teaching and Testing
with Maple"

Connie Schrock,

Emporia State University

D. "TI-81 Workshop -
Precalculus, Statistics,
and Finite Math"

(Calculators will be provided.)
Lynnda Hollingsworth,
Northwest Missouri
State University

Lunch 12:30 p.m.

(see details on the attached form)

Parallel Workshops /

Presentations - II: 1:30 - 3:00 p.m.

A. "Advanced Derive Workshop -
Calculus I and Calculus II"

Richard Delaware, University of
Missouri, Kansas City

B. "Gyographics in Calculus III"

Jerry Johnson, Oklahoma State
University

C. "Mathematica for Precalculus
and Beyond" - workshop

Mike Gutowski, Johnson County
Community College

D. HP48 Workshop - Calculus
and Linear Algebra

(Calculators will be provided)
Bob Adams, University of Kansas

Panel Discussion: 11:30 a.m.

"How Will Our Use of Technology
Affect the Analytical Capabilities
of Our Students?"

Moderator: Bob Adams,

University of Kansas

Panelists:

Andy Bennett, Kansas State

University

Mike Gutowski, Johnson County

Community College

Martha Haehl, Maple Woods

Community College

Jerry Johnson, Oklahoma State

University

Friday &

Saturday

Displays

Software Displays for hands-on review will be available

Friday (8 a.m. - 4 p.m.) and Saturday (8 a.m. - 2 p.m.) for the software listed below:

Derive, The Geometer's Sketchpad, Gyographics, Logo, Macsyma, Maple, MathCAD, Mathematica, Matlab, Mathematics Plotting Program, Microcalc, Phaser, StatView, and Theorist

at Kansas City Kansas Community College

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**Saturday
October 17
1992:**

8:00 a.m.
Registration
begins and will
continue until
1:30 p.m. (Hall
near AH 2705)

Panel Discussion: 9:00 a.m.
**"Two Views from the Border -
What High Schools Prepare for
and What Colleges Expect."**

Moderator:

Richard Delaware, University of
Missouri, Kansas City

Panelists:

Vena Long, University of Missouri,
Kansas City, and Coalition for
Missouri Mathematics
Bev Nichols, Shawnee Mission
School District

Jack Porter, University of Kansas
Sandra Young, Computer Magnet
High School, Kansas City, MO

10:15 a.m. Break and Snack

Parallel Workshops /

Presentations - III: 10:45 - 11:35 a.m.

A. "Some Thumbnail Algebra
and Calculus Presentations
Using Derive and University
of Arizona Software."
Martha Haehl, Maple Woods
Community College

B. "Technology in the Math
Education Program"
Andy Bennett, Kansas State
University

C. "Using Technology to Efficiently
Produce 'Ideal' Practice
Materials for Mathematics"

Stan Hartzler, Northwest
Missouri State University

D. "Geometer's Sketchpad
Demonstration"

David Ewing, Central Missouri
State University

E. "Using the Computer to Teach
the Physics of the Rainbow"

John Olson, Rockhurst College

Parallel Workshops /

**Presentations - IV: 11:45 a.m. -
12:35 p.m.**

A. "Math Modeling with MathCAD"
Rick Royer, Shawnee Mission
East High School

B. "How to Use Word Perfect,
The Mathematics Plotting
Program, and Audience Partici-
pation to Teach Probability"

Elizabeth Appelbaum,
Avila College

11:45 a.m. - 1:15 p.m.

C. **Beginning Derive Workshop**

Darrel Thoman,
William Jewell College

D. **TI-81 Workshop**

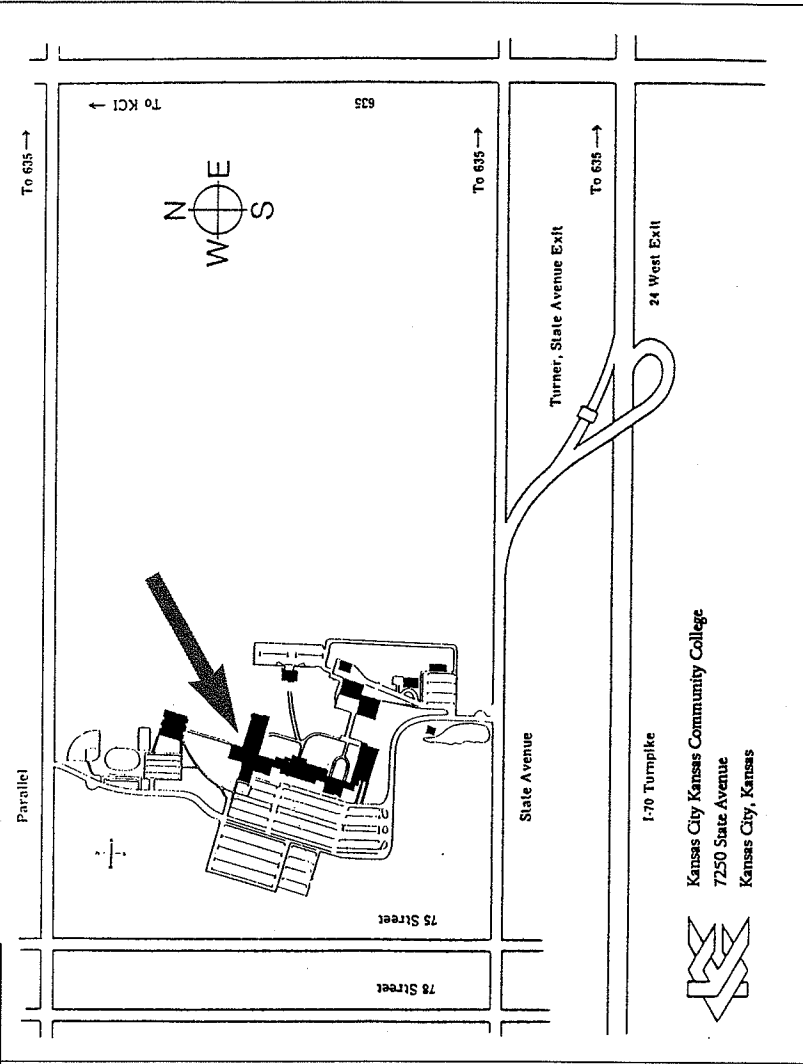
(Calculators will be provided.)

Nancy Olson, Johnson County
Community College

E. **Theorist Workshop**

Linda Herndon,
Benedictine College

**How
to get
there**



Kansas City Kansas Community College
7250 State Avenue
Kansas City, Kansas