

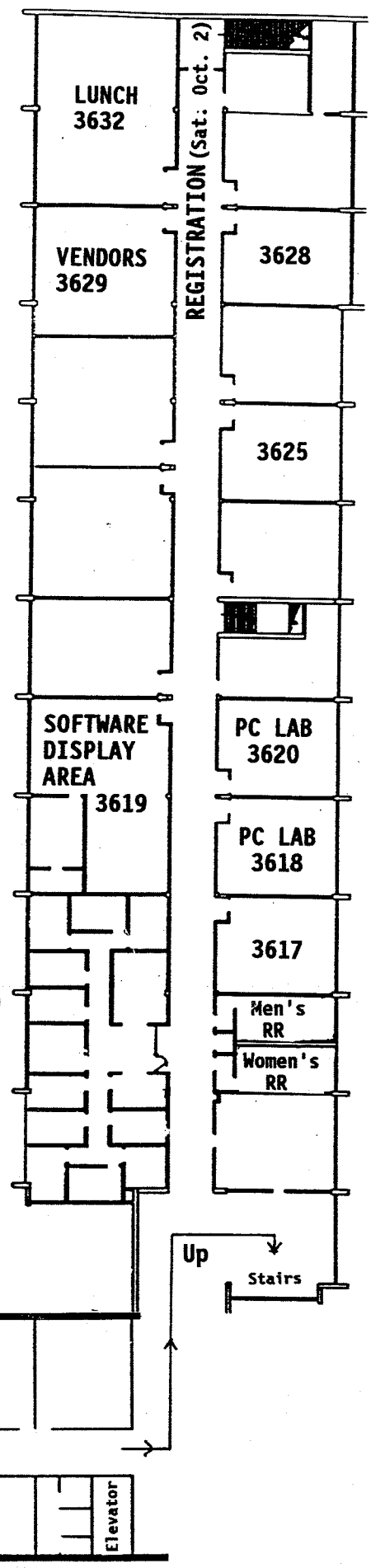
Delaware

3rd ANNUAL GREATER KANSAS CITY MATHEMATICS TECHNOLOGY EXPO

SCHEDULE OF EVENTS

OCTOBER 1 & 2, 1993
Kansas City Kansas Community College

Sponsored by KRCHE
[Kansas City Regional Council for Higher Education]



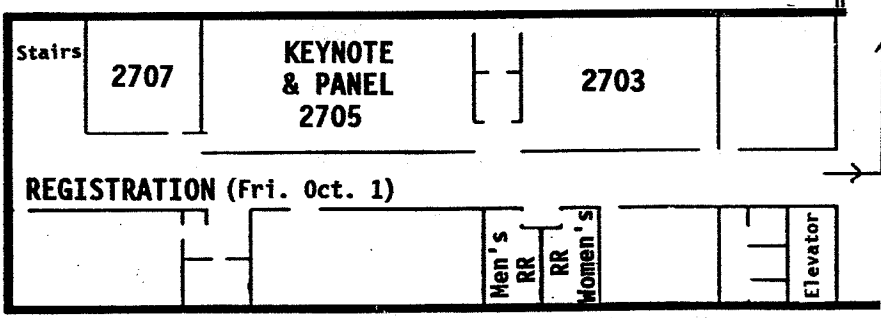
ET (Engineering/Technology)
UPPER FLOOR



<-- Parking

AH (Allied Health)
LOWER FLOOR

ENTRANCE



FRIDAY OCT. 1

8:00 am REGISTRATION HALL near AH 2705
- 3:00 pm -----> From 1:00 - 3:00 pm move to HALL near ET 3632

9:00 am WELCOME & INTRODUCTIONS AH 2705
- 10:20 am

Richard Delaware, University of Missouri, Kansas City, MO
1993 EXPO Planning Committee Chairman

Tom Burke, President of Kansas City Kansas Community College

Don Breckon, Chairman of the Board of Directors of KCRCHE
[Kansas City Regional Council for Higher Education]
President of Park College

KEYNOTE ADDRESS

How Should Technology Affect the Teaching of Calculus?

Deborah Hughes-Hallett, Harvard Calculus Consortium Author,
Harvard University, Cambridge, MA

QUESTIONS

-----SESSION 1-----

10:30 am A: *Which Witch Is Which? The "Witch Of Agnesi"*
- 11:20 am *On Paper, On Graphics Calculators, On Computers*

Speaker: Mike Gutowski, AH 2703
Johnson County Community College, Overland Park, KS
[IBM, MAC, TI-81]

Presider: Libby Holmgren, Johnson County Community College

B: *Computer Based Lab Experiments In Calculus I*

Speaker: Jean Alliman, AH 2705
Hesston College, Hesston, KS
[IBM]

Presider: Ken Eichman, MCC Blue Springs Campus

C: *Active Learning: Computers and Cooperative Learning In Calculus*

Speakers: Steve Nimmo, Doug Swan, AH 2707
Morningside College, Sioux City, IA
[IBM]

Presider: John Koelzer, Rockhurst College

D: Software Display Area ET 3619

E: Vendors ET 3629

FRIDAY OCT. 1 (con.)

-----SESSION 2-----

11:30 am A: PANEL DISCUSSION: AH 2705
- 12:20 pm

Graphics Calculators, Computers, and Paper: What's the Right Mix ?

Moderator: Andy Bennett, Kansas State University, KS

Panelists: Bob Adams, University of Kansas, KS
Jeff Frost, Johnson County Community College, KS
Deborah Hughes-Hallett, Harvard University, MA
Anita Salem, Rockhurst College, Kansas City, MO

B: Software Display Area ET 3619

C: Vendors ET 3629

12:30 pm LUNCH ET 3632
- 1:20 pm also Visit Vendors (ET 3629), and Software Display Area (ET 3619)

-----SESSION 3-----

1:30 pm A: *Modeling In 1st Year Calculus: The Spread Of A Disease*
- 2:20 pm

Speaker: Deborah Hughes-Hallett, ET 3628
Harvard University, Cambridge, MA
[TI]

Presider: Kay Weiss, Kansas City Kansas Community College

B: *A Methodology For Integrating A Computer Mathematics System
Into A Mathematics Course*

Speaker: John Koelzer, ET 3617
Rockhurst College, Kansas City, MO
[IBM, MAC]

Presider: Nic LaHue, Penn Valley Community College

C: *Enhancing Calculus I With Derive*

Speaker: Gary Cochell, ET 3618
Culver-Stockton College, Canton, MO
[IBM]

Presider: Marian Van Vleet, Saint Mary College

F: Software Display Area ET 3619

G: Vendors ET 3629

FRIDAY OCT. 1 (con.)

-----SESSION 3 (Continued)-----

- 1:30 pm D: *Workshop: Exploring Discrete Mathematics With Mathematica*
- 3:30 pm
- Speaker: Cathleen O'Neil,
Johnson County Community College, Overland Park, KS
[IBM, MAC] ET 3620
- Presider: Vena Long, University of Missouri - Kansas City
- E: *TI-81 Workshop: Finite Mathematics and Statistics*
- Speaker: Lynda Hollingsworth,
Northwest Missouri State University, Maryville, MO
[TI-81 Calculators Provided; Max: 30] ET 3625
- Presider: Jean Johnson, Baker University

-----SESSION 4-----

- 2:30 pm A: *Limits: A Rigorous Approach, Using Maple*
- 3:20 pm
- Speaker: Noah Rhee,
University of Missouri, Kansas City, MO
[IBM, MAC] ET 3628
- Presider: Ken Eichman, MCC Blue Springs Campus
- 2:30 pm B: *Workshop: Preparing Applications For Student Use In Matlab*
- 4:00 pm
- Speaker: Andy Bennett,
Kansas State University, Manhattan, KS
[IBM] ET 3618
- Presider: David Ewing, Central Missouri State University
- C: *A Review of Geometry Software: Cabri: The Interactive Geometry Notebook,
GeoExplorer, The Geometer's Sketchpad, and Geometric SUPPOSER*
- Speaker: Bill Parker,
Kansas State University, Manhattan, KS
[IBM, MAC] ET 3617
- Presider: Nic LaHue, Penn Valley Community College
- D: Software Display Area ET 3619
- E: Vendors ET 3629
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SATURDAY OCT. 2

8:00 am REGISTRATION HALL near ET 3632
- 1:00 pm

-----SESSION 5-----

9:00 am A: *Numerical Integration Using the TI-81/TI-85 Graphics Calculators*
- 9:50 am
Speakers: Keith Wilson, Mike Turegun, ET 3625
Oklahoma City Community College, Oklahoma City, OK
[IBM, TI-81, TI-85]

Presider: Nic Lahue, Penn Valley Community College

B: *Results Of A Secondary Mathematics Teachers Technology Workshop,
Held Aug. 8-14, 1993*

Speakers: Kevin Hopkins, Bob Glasgow, ET 3628
Southwest Baptist University, Bolivar, MO
[IBM, MAC, TI]

Presider: Ken Eichman, MCC Blue Springs Campus

C: *Comparison, Application, and Integration Of Various
Graphics Calculators In The Classroom*

Speakers: Frank Lojko, Springfield Public Schools, ET 3617
~~Fred Fotsch, Glendale High School, Springfield, MO~~
[HP 48G & 48S, SHARP EL 9300, TI-82]

Presider: Richard Delaware, University of Missouri - Kansas City

D: *Using A Spreadsheet In The Secondary Math Classroom*

Speaker: Gene Tibbetts, ET 3620
Emporia High School, Emporia, KS
[MAC]

Presider: Marian Van Vleet, Saint Mary College

E: Software Display Area ET 3619

F: Vendors ET 3629

SATURDAY OCT. 2 (con.)

-----SESSION 6-----

- 10:00 am A: *The Use of Technology In Writing Across The Curriculum:*
- 10:50 am *College Algebra Without Tests*
- Speaker: Jeff Frost, ET 3620
Johnson County Community College, Overland Park, KS
[IBM, MAC, TI, WordPerfect, MathType]
- Presider: Marian Van Vleet, Saint Mary College
- E: Software Display Area ET 3619
- F: Vendors ET 3629
- 10:00 am B: *Beginning SHARP EL 9300 Graphics Calculator Workshop*
- 12 noon
- Speakers: Roger McHenry, Our Lady Of Good Council School, MO ET 3617
~~Frank Spellerberg, Raytown South High School, MO~~
[SHARP Calculators Provided; Max: 30.]
- Presider: Richard Delaware, University of Missouri - Kansas City
- C: *Workshop: Numerical And Geometric Iteration With
The TI-81 Graphics Calculator*
- Speaker: Samuel Lynch, ET 3625
Southwest Missouri State University, Springfield, MO
[IBM, TI-81 Calculators Provided; Max: 30.]
- Presider: Jean Johnson, Baker University
- D: *Beginning Derive Workshop*
- Speaker: Kay Weiss, ET 3618
Kansas City Kansas Community College, Kansas City, KS
[IBM]
- Presider: Libby Holmgren, Johnson County Community College
- SESSION 7-----
- 11:00 am A: INFORMAL DISCUSSION GROUP / MEET THE SPEAKERS ET 3632
- 11:50 am
- B: Software Display Area ET 3619
- C: Vendors ET 3629
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SATURDAY OCT. 2 (con.)

12 noon LUNCH ET 3632
- 12:50 pm

also DISCUSSION GROUP/MEET THE SPEAKERS Continues (ET 3632 & ET 3628)
Visit Vendors (ET 3629)
Visit Software Display Area (ET 3619)

-----SESSION 8-----

1:00 pm A: *Computer Animations: The Pythagorean Theorem and Beyond*
- 1:50 pm

Speaker: Andy Bennett, ET 3628
Kansas State University, Manhattan, KS
[IBM, Video]

Presider: John Koelzer, Rockhurst College

E: Software Display Area ET 3619

F: Vendors ET 3629

1:00 pm B: *Geometer's Sketchpad: Practical, Interactive, Innovative Geometry Lessons*
- 2:30 pm

Speaker: David Ewing, ET 3620
Central Missouri State University, Warrensburg, MO
[IBM, MAC]

Presider: Kay Weiss, Kansas City Kansas Community College

1:00 pm C: *A Working Approach To Learning The Operation of The TI-81 and TI-85*
- 4:00 pm *Graphics Calculators, With Applications To Precalculus and Calculus*

Speakers: Keith Wilson, Mike Turegun, ET 3625
Oklahoma City Community College, Oklahoma City, OK
[TI-81/85 Calculators Provided; Max: 30 of each.]

Presider: Nic LaHue, Penn Valley Community College

D: *A Workshop On The New HP 48G Graphics Calculator*
For Post-Secondary Mathematics

Speaker: Bob Adams, ET 3617
University of Kansas, Lawrence, KS
[HP Calculators Provided; Max: 30.]

Presider: Jean Johnson, Baker University

SATURDAY OCT. 2 (con.)

-----SESSION 9-----

- 2:30 pm A: *Derive vs MathCAD: A Comparison*
- 3:20 pm
- Speaker: Ken Eichman, ET 3618
Metropolitan Community Colleges, Blue Springs Campus, MO
[IBM]
- Presider: Marian Van Vleet, Saint Mary College
- B: *Using Mathematics Technology and Other Techniques To Retain
Developmental Students: A Discussion*
- Speakers: Michele Bach, Charyl Link, Margret Hathaway, ET 3628
Kansas City Kansas Community College, Kansas City, KS
[IBM]
- Presider: Kay Weiss, Kansas City Kansas Community College
- C: Software Display Area ET 3619

THE 1993 EXPO ENDS

See You Next Year!

EXPO PLANNING COMMITTEE

Richard Delaware - CHAIRMAN 1993
University of Missouri - Kansas City

Bob Adams
University of Kansas

Jean Johnson
Baker University

Andy Bennett
Kansas State University

John Koelzer
Rockhurst College

Ken Eichman
MCC, Blue Springs Campus

Nic LaHue
MCC, Penn Valley Community College

David Ewing
Central Missouri State University

Vena Long
University of Missouri - Kansas City

Libby Holmgren
Johnson County Community College

Marian Van Vleet
Saint Mary College

Kay Weiss - Past Chairman (1992)
Kansas City Kansas Community College