

# PROCEEDINGS

## MATYCONN

October 26, 1974

### Morning Session

#### Presentation by Professor Gross

Professor Herbert Gross from Bunker Hill Community College in Charlestown, Massachusetts, president of MATYC had some very stimulating comments on the teaching of mathematics and the general attitude which community college faculty should foster. He stressed that we should have a unified philosophy in teaching. Professor Gross suggested that the same lack of self-confidence we see in our students too often characterizes us faculty. "We must have pride and be national leaders in the problems of freshmen and sophomores. Our commitment is to the community--to give students a chance for education beyond high school. There is no remedial student if we accept him." He insisted that we teach human values as well as mathematics.

Then our guest discussed the need for a national organization. First, we can consolidate our resources from such an organization and solve "the remediation problem."

Secondly, there is no national organization for two-year colleges. Therefore, we stand as a model for other groups in other academic areas.

Professor Gross proposed: (1) that faculty establish their own criteria for evaluation of teaching performance; (2) that the organization sponsor seminars and short courses on topics that would be helpful to two-year college mathematics faculty; and (3) the national organization should be "an academic union." It is his hope that students planning to continue college after the first two years will be carefully selected and continue for three years to earn the M.A. degree.

We were reminded that sometimes we are negative about students' errors. For example, the student who adds fractions by combining numerators and denominators might be told that this is correct when computing weighted averages instead of being told that one never adds fractions in this way. "We sometimes rob the student of his intuition."

Our speaker then continued by discussing his concept of "the new mathematics." He suggested that the word "new" in this phrase is a misnomer. It might well have been named "the meaningful mathematics" since its aim was to teach mathematics meaningfully. Instead, many teachers are concentrating on the new language for its own sake. Thus, "it's the pseudo new mathematics that has failed."

With regard to developmental programs in mathematics, Professor Gross suggested that more be done to show the student his frame of reference. We must constantly point out why he needs what we are teaching. Let him know that sometimes there is no right answer; but there may be one that is more valid than the others.

Looking ahead, Professor Gross envisions a situation in which there will be continuous registration; faculty will serve as consultants to students who will learn from texts and other material recorded by the faculty member directing the course. Other students will serve as tutors. A maximum amount of audio-visual materials will be employed.

Professor Gross is author of Mathematics A Chronicle of Human Endeavor and a 15-volume self-study course entitled Calculus Revisited. Presently, he is serving as editor and advisor for D. C. Heath Company to establish a multi-media, multi-level approach for teaching mathematics.

#### Afternoon Session

#### COMPUTER ASSISTED INSTRUCTION IN MATHEMATICS

Presentation by Cecil Denny

Shared Educational Computer Systems, Inc.

This is a non-profit organization whose purpose it is to share resources among institutions. The computer located in Poughkeepsie, New York is a time-sharing system providing instructional, research, and administrative services with primary emphasis on instruction. It can be used to assist the student with problem-solving techniques, as a tutorial service and for vocational information on the secondary level.

With regard to tutoring, The Arithmetic Proficiency Training Program is used. Students are tested to determine their level of competence in various skills.

The computer uses both APL and Course Writer III with an interface between the two languages to allow easy interchange.

Each topic is separated into modules thus allowing for flexibility in planning the level at which a given topic is to be covered.

#### Presentation by Harold Baker

Mr. Baker teaches computer science at Litchfield High School from a humanistic and humanitarian point of view. A time-sharing system, two students use the computer at the same time. The first concept that is emphasized is that they have complete control over the machine and the output is only as good as the input.

Then they discuss the various uses of computers, including its use in the arts. Computer music and computer art are exposed to the students.

Practical concepts are also illustrated. The difference between simple and compound interest is demonstrated.

Flow charts are stressed to enable the student to discover the flow of logical thinking. He also gains experience with iterative methods and techniques of approximation.

Material on matrices is stressed; emphasis is also placed on number sorting for calculating the median and for later use in non-parametric statistics.

All presentations in both the morning and afternoon sessions were enriching and gave us much food for thought.

Respectfully submitted,

Elizabeth Lombardi  
Secretary

LIST OF COMMITTEES AND COMMITTEE CHAIRMEN

MATYCONN

1974-75

<u>Committee</u>	<u>Chairman</u>	<u>College</u>
Articulation	John Merrill	Mitchell
Nominating	Jean Smith	Middlesex
Program	Henry Pronovost	Mattatuck
Remediation	Tom Newton	Norwalk State Tech
Testing	Phil Glynn	Mattatuck
Textbook Review	Katharine Coe	Mattatuck

MINUTES

MATYCONN

Meeting of October 26, 1974

The meeting was called to order at 10:20 a.m. by Mr. Dolliver at Middlesex Community College.

First, our guests Professor Gross from Bunker Hill Community College and Mr. Arthur Sotak of McGraw-Hill Book Company were introduced.

The minutes of the April meeting were accepted.

Treasurer Peter Wursthorn asked that all dues be paid by December 1 to ensure receipt of the MATYC Journal. He also reported that the Association is in the process of applying for tax exempt status. No problem is anticipated at this time.

With regard to committee assignments, Mr. Dolliver pointed out that at present we have a chairman for each committee except Articulation. Mr. John Merrill from Mitchell College volunteered to chair this committee. In addition to exchanging information about curricula with other colleges, it was suggested that we also communicate with various high schools.

All committee chairmen are requested to contact Henry Pronovost about plans for the next meeting which will take place on Saturday, March 15 at Greater Hartford Community College. (For list of committees and committee chairmen, see the enclosed.)

The meeting was adjourned at 10:45.

Respectfully submitted,

Elizabeth Lombardi  
Secretary

MATHEMATICS ASSOCIATION OF TWO-YEAR COLLEGES IN CONNECTICUT

September 26, 1974

Dear Phil:

Would you kindly assist us in planning our MATYCONN Fall Conference by polling the members of your department to see if they are planning to attend this meeting?

We have planned a most interesting program and would appreciate whatever assistance you can offer to help us improve attendance and membership in our organization.

The president of MATYC, Professor Herb Gross, will deliver a talk to the group on October 26. Anyone who has heard him speak can surely testify to his dynamic appeal.

Please relay the count of those planning to attend from your college, by October 18, 1974, to:

Jean Smith  
Middlesex Community College  
Training Hill Road  
Middletown, Connecticut 06457

Telephone: 347-7411.

With much appreciation for your efforts on our behalf, I am

Sincerely yours,



Henry J. Pronovost  
Vice-President, MATYCONN

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MEMORANDUM

September 24, 1974

TO: All MATYCONN Members  
FROM: E. Lombardi, Secretary  
SUBJECT: Fall Meeting

Welcome to another academic year. MATYCONN will hold its first meeting on Saturday, October 26 at 10:00 a.m. at Middlesex Community College in Middletown. We have an exciting program so please mark your calendar and make every effort to join us!

The general theme of the day will be computer assisted instruction in mathematics. We are honored to have as our guest speaker Professor Herbert Gross, President of MATYC, from Bunker Hill Community College in Charlestown, Mass. I am sure you will find him inspiring and dynamic.

We request that each department bring 20 copies of the syllabi you are presently using in your courses so that they can be distributed among the membership.

There is no registration fee; however, there will be a \$2.00 charge for lunch. Also, please plan to pay your \$6.00 dues at this meeting.

Thank you. I look forward to seeing you.

Program

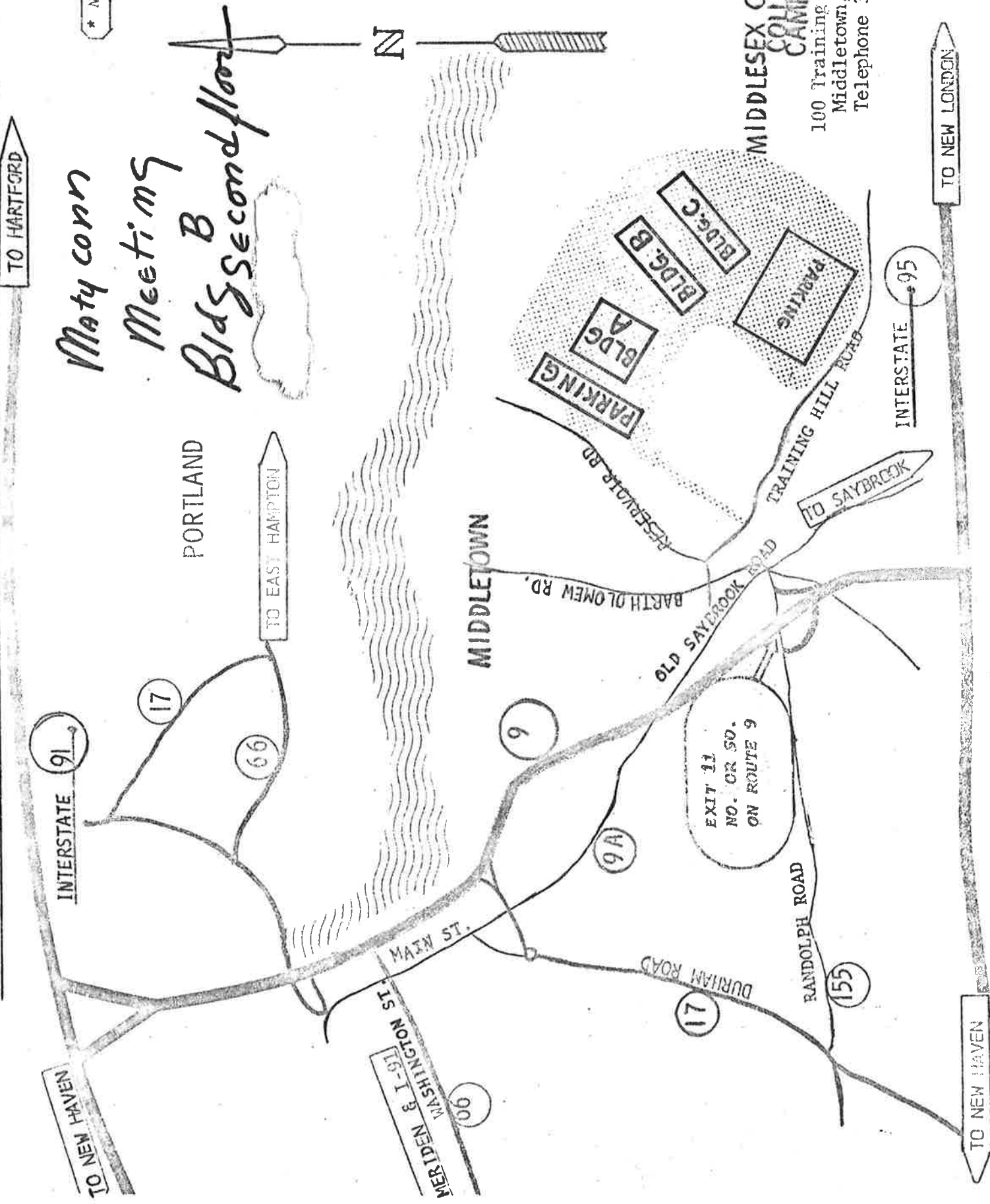
9:00 Registration and coffee  
10:00 Business meeting  
11:00 Presentation by Professor Gross  
12:00 Lunch  
1:00 Panel on computer assisted instruction as a tool for teaching mathematics. This will include discussions of both APL and Basic Languages.

Agenda for Business Meeting

1. Welcome
2. Introduction of distinguished guests
3. Membership and tax exempt status
4. Selection of chairman for the Articulation Committee
5. Committee assignments
6. Report on the direction of MATYC (Professor Gross)
7. Establish time and place for Spring Meeting

# MAIN ROUTES TO MIDDLESEX COMMUNITY COLLEGE CAMPUS

\* NOT TO SCALE





# ANNOUNCING

1974 MATHYCONN Annual Meeting

DATE: April 27, 1974

LOCATION: Mattatuck Community College  
Waterbury, Conn. (see enclosed map for directions)

EVENTS OF THE DAY:

A.M. 9-10:00 Early registration with coffee and doughnuts  
MEMBER FEE \$5.00  
GUEST FEE None

A.M. 10-11:30 \*Summary of the New York State meeting of  
April 25-26

\*Business Meeting  
Change of officers  
Changes and/or additions to bylaws  
Establishment of committees  
Committee-chairman reports (if any)

\*Committee Organizational Meetings

P.M. 12-1:00 Luncheon

P.M. 1:00 Late registration MEMBER FEE \$1.00  
GUEST FEE None

P.M. 1-3:30 Guest PANEL-discussion

THEME: Transfer of Mathematics Credits  
within Connecticut Colleges

REPRESENTATION:

Central, Southern, Western,  
UConn., ICC., others.

AREAS: \*Liberal arts--non-science

\*Science-mathematics

\*Business

TOPICS: 1. Channels of communication;  
2. Evaluation of courses for  
transfer purposes;  
3. Program, major, or distri-  
bution requirements;  
4. Transferral as an elective,  
Transferral as a requirement;  
5. A transfer data bank in math  
for Connecticut.

P.S. If you still wish to pay your dues, a form is included.

DIRECTIONS TO: Mattatuck Community College  
Harvester Road Campus  
Waterbury, Connecticut

ON I-84 EAST

Take Exit 19 (Rte. 8 South) and follow Rte. 8 to first exit, which is Exit 30 (Washington Ave.). Left on Washington Ave. to So. Main Street (0.4 miles). Right on So. Main Street (0.2 miles). College entrance is on right between City National Bank and International Harvester garage.

ON I-84 WEST

Take Exit 23 (Rte. 69 North). Right on Rte. 69 to Washington St. (0.2 miles). Left on Washington Street to So. Main Street (0.6 miles). Left on So. Main Street (0.2 miles). College entrance is on right between City National Bank and International Harvester garage.

ON ROUTE 8 SOUTH

Take Exit 30 (Washington Ave.). Left on Washington Ave. to So. Main St. (0.4 miles). Right on So. Main Street (0.2 miles). College entrance is on right between City National Bank and International Harvester garage.

ON ROUTE 8 NORTH

Take So. Main Street exit. Proceed 2.1 miles on So. Main Street. College entrance is on left between International Harvester Garage and City National Bank.

NOTE: The college has a split campus. One campus (Chase Parkway) is in the west end of the city and the other campus (Harvester Road) is in the south end. If you follow MATTATUCK signs, you may end up at the wrong campus. You should have no problem reaching the Harvester Road campus by following the above directions and approaching Waterbury on either I-84 or Route 8.

In case of any trouble whatsoever, call 757-9660 and we'll assist you.

MATYCONN

TREASURER'S REPORT

April 27, 1974

<u>STARTING BALANCE (MAY 31, 1973)</u>	\$ <u>35.00</u>
<u>DEPOSITS (Membership Dues Through April 26, 1974)</u> (Conn. Bank & Trust Checking Account)	\$ <u>95.00</u>
<u>DISBURSEMENTS (Checking Account Charge,</u> June 1, 1973 - April 26, 1974)	\$ <u>7.04</u>
<u>CHECKING ACCOUNT BALANCE (As of April 26, 1974)</u>	\$ <u>122.96</u>

Submitted by: Philip A. Glynn  
Philip A. Glynn  
Treasurer, MATYCONN

MATYCONN

MEMBERSHIP DISTRIBUTION

April 26, 1974

	<u>1974 Paid Membership</u>	<u>Unpaid Membership (1973 Members)</u>	<u>Total</u>
<u>Community Colleges</u>			
Asnuntuck	0	0	0
Greater Hartford	3	1	4
Housatonic	1	1	2
Manchester	1	3	4
Mattatuck	5	0	5
Middlesex	2	2	4
Mohegan	3	0	3
Northwestern	0	1	1
Norwalk	1	2	3
Quinebaug	0	0	0
South Central	1	0	1
Tunxis	0	1	1
<u>Technical Colleges</u>			
Hartford State	1	1	2
Norwalk State	1	1	2
Thames Valley	0	1	1
Waterbury State	0	0	0
<u>Private Colleges</u>			
Mitchell Junior College	<u>0</u>	<u>1</u>	<u>1</u>
<u>Totals</u>	<u>19</u>	<u>15</u>	<u>34</u>

Philip A. Glynn  
Treasurer, MATYCONN

MATYCONT

MEMBERSHIP DISTRIBUTION

June 1974

Community Colleges

1974 Paid Membership

Asnuntuck	0
Greater Hartford	4
Housatonic	2
Manchester	2
Mattatuck	5
Middlesex	4
Mohegan	2
Northwestern	0
Norwalk	1
Quinebaug	0
South Central	1
Tunxis	1

Technical Colleges

Hartford State	1
Norwalk State	2
Thames Valley	0
Waterbury State	0

Private Colleges

Mitchell Junior	<u>1</u>
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TOTAL

26

MATYCONN

COMMITTEE INTERESTS

April 26, 1974

(as derived from membership applications)

NOMINATING

Everest, Inez  
Newton, Thomas  
Smith, Jean \*

PROGRAM

Dolliver, Richard  
Newton, Thomas  
Pronovost, Henry \*

CURRICULUM

Bentsen, Clifford  
Brunell, Joan  
Coe, Katharine  
Everest, Inez  
Gervase, Josephine  
Haig, Joan  
Jacobson, Russell  
Klepocki, Ronald  
Markons, Alexander  
Musco, Linda  
Osborn, George  
Pruchnicki, Anthony  
Smith, Jean  
Tracy, Anita  
Vismontas, Louis (Gomez)

REMEDICATION

Bentsen, Clifford  
Brunell, Joan  
Coe, Katharine  
Everest, Inez (Gomez)  
Felt, Nancie  
Gervase, Josephine  
Glynn, Philip  
Haig, Joan  
Markons, Alexander  
Musco, Linda  
Palumbo, John  
Pazdar, John  
Weiss, Harvey  
Newton, Tom \*(Temp)

TEXTBOOK REVIEW

Coe, Katharine \*  
Dolliver, Richard  
Haig, Joan  
Jacobson, Russell  
Markons, Alexander  
Pronovost, Henry  
Weiss, Harvey

TESTING

Glynn, Philip \*  
Haig, Joan  
Lombardi, Elizabeth  
Markons, Alexander  
Pruchnicki, Anthony

ARTICULATION

Dursht, Ethel  
Glynn, Philip  
Majeske, L. Michael  
Markons, Alexander  
Osborn, George  
Rodenhiger, Carl  
hold