

MIDWEST BIOSCENE



ASSOCIATION OF MIDWESTERN COLLEGE BIOLOGY TEACHERS V. 3 # 1 September, 1976

BIOLOGY: NEW INTERFACES

THE 20th ANNUAL MEETING

DRAKE UNIVERSITY, DES MOINES, IOWA

OCTOBER 1-2, 1976

DRAKE UNIVERSITY
DES MOINES, IOWA 50311

I am delighted that the members of the Association of Midwestern College Biology Teachers have chosen Drake University as the site for their 1976 meeting. This seems especially appropriate for the twentieth anniversary meeting in that the organization was founded at Drake by Doctor Leland Johnson of our Biology Department. Leland served as the first president and Doctor Rodney Rogers of our faculty was the first secretary-treasurer. I know that both of these gentlemen, along with all the other members of our Department of Biology, look forward to having you here.

I welcome you to the Drake University campus and extend my best wishes for a successful meeting.

Sincerely,

*Wilbur C. Miller
President*

M A T R I X *(Letters to the editor)*

RAMBLINGS BY A RECENT RETIREE

As a very recent retiree from teaching (but not AMCBT) it is time to stop awhile, take stock of what has happened over the years and reflect a bit about what AMCBT has meant to me.

Over the years I have belonged to a goodly number of professional organizations and have participated rather actively in them. But overall none have given me as much pleasure and as much profit as AMCBT. I suppose that some of this is due to my association with the organization for almost all of its term of existence. I missed the first meeting in Des Moines, but with the exception of the meeting at Jefferson City in 1974, I have attended all of the other meetings. I missed the one at Jefferson City because I was incapacitated by very recent surgery.

During these years I have helped out whenever I could, for I believe in being active in an organization. One gets so much more pleasure by being active rather than just attending the meetings. And I got just as much pleasure from chairing a section or being a section recorder as I did from being a speaker on the program or serving on the Board.

One of the great strengths of AMCBT has been the great discussions between the members. Every member has had his or her opportunity to speak out at meetings. And the free exchange of ideas sparked new ideas. How well I recall that so many of the discussions didn't stop with the allotted time on the program but continued in a good many bull sessions and at times over bottles of malt beverage. It was fun and I think that we all took something back home with us that made us feel that the time and effort was well spent.

Of course our organization has been in existence during an exciting time. The formative years, chronicled in the May issue of *MIDWEST BIOSCENE*, coincided with so much change in our thinking, research, curriculum content and method. It was a great period of re-thinking what we were doing and where we should go from there. And AMCBT and our discussions did have an impact on what followed. All of us who participated can honestly say that we had a part in it. Each individual contribution may be small but contributions do accumulate. And a consensus arrived at by the contributions of many can have much influence. At each new meeting new ideas were introduced, discussed, and filtered back to where it counted. And so our national involvement became intensified.

I can never forget how lively the discussion was when we had the joint meeting with CUEBS in Kansas. And we and the profession profited. Of course we always profited from our other meetings too, individually and collectively. We are listened to and our collective judgment is respected.

And so we look forward to the future. What it will bring us no one can tell. But we must never lose sight of the fact that AMCBT is a lot like a living organism.

(continued on page 3)

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PROTOZOOLOGIST' EVENING SPEAKER Doctor Theodore Jahn, Professor of the University of California at Los Angeles will present the Friday evening lecture. He will illustrate his presentation on cilia, flagella and pseudopodia with both specially prepared slides and movies. He has also promised to comment on new findings concerning the water expulsion vesicle and the origin of bioelectromotive force.

Dr. Jahn received his bachelors from Rice Institute and advanced degrees from New York University. Prior to going to UCLA in 1948 he lectured and taught at New York University, Yale, and Iowa. He has held office in many associations and is a member of AAAS, AIBS, American Society of Microbiology, Society for General Physiology, American Society of Naturalists, American Microscopical Society, American Physiology Society, Biophysical Society, Optical Society of America, Society for Experimental Biology and Medicine, Society for Protozoology, American Society of Zoologists, Society for Systematic Zoology, and the Phycological Society of America.

He has many research interests. His areas of interest include the taxonomy and physiology of protozoa, the photochemical and electrical bases of visual phenomena, the chemistry and permeability of insect egg membranes, insect diurnal rhythms, protoplasmic movement, and imbibitional pressure.

AENTS ANNOUNCES AWARD PROGRAMS Dr. David H. Ost, President-elect for the Association for the Education of Teachers of Science, has requested that we announce two new awards.

Award I, Implications of Research for Educational Practice is designed to stimulate the writing of creative papers that interpret theory and research for classroom practice. Deadline for entry is November 1, 1976.

Award II, Outstanding Science Educator of the Year is designed to recognize the personal achievements and contributions of science educators in the ascendant period of their career. Deadline for nomination is December, 1, 1976.

If you wish to submit a paper for Award I or nominate an individual for Award II complete information may be obtained from the CENTRAL OFFICE or from Dr. Ost.

Dr. David H. Ost, Director
Center for Professional Development
The California State University and Colleges
400 Golden Shore
Long Beach, California 90802

(continued from p. 2) It metabolizes and continually changes. While change merely for the sake of change is not particularly desirable, guided change to mold and to meet changing situations is healthy and should be welcomed. Remember what has happened in the course of history when organisms failed to adapt. Let's keep AMCBT alive and healthy and who knows what it will evolve to in the next twenty years.

As I said in the opening statement I am retiring but I haven't lost interest. I'm proud to be associated with the group and wish to say thank you to all of my friends for everything. I may not get to quite as many meetings in the coming years, but my best wishes for progress and success will be there.

Harold A. Moore

711 Osage Street
Normal, IL 61761

CONSTITUTIONAL AMENDMENT PROPOSED The Steering Committee has proposed two amendments to the Constitution and several changes in the By-Laws to be acted upon at the Annual Meeting.

The Constitution of AMCBT requires that amendments to the Constitution be considered by the Steering Committee and then submitted to the membership in writing two weeks prior to the Annual Meeting. Amendments to the Constitution require a three-fourths majority of Votes cast by members present at the business session of the Annual Meeting for adoption. Amendments to the By-Laws also require a three-fourths majority for passage.

These changes are proposed to achieve the following:

1. Change the office of secretary-treasurer to secretary with the duties of treasurer to be handled by the Central Office.
2. Change the term of office so that election becomes effective immediately. This would justify new officers in making committee appointments immediately and enable planning for the ensuing years program to begin at an earlier date. It would be possible to hold the Steering Committee Meeting in November or December rather than January.
3. Indicate the duties of Steering Committee members in somewhat more detail and indicate formally those expenses of the Steering Committee member which will be reimbursed by the Association.

Copies of the Constitution as amended October, 1975, will be available at the meeting. Consideration of these items will be at the third session of the business meeting.

The following amendments to the Constitution have been considered by the Steering Committee and recommended for passage.

Article IV.

Section 1

Change: "secretary-treasurer" to "secretary"

Section 2

Change: "secretary-treasurer" to "secretary"

The following amendments to the by-laws are recommended for passage by the Steering Committee.

Article I

Section 1

Change: "on the January 1" to "immediately"

Change: "secretary-treasurer" to "secretary"

Section 4

Delete: Sentence beginning, "he shall also collect"

Section 7

Change: "secretary-treasurer" to "secretary"

Delete: "he shall also collect Association dues, disburse funds as authorized by the Steering Committee, keep a proper record of all monies received and disbursed,"

Change: "secretary-treasurer" to "secretary"

Section 8

Add: New sentence, "He shall also collect Association dues, disburse funds as authorized by the Steering Committee, keep a proper record of all monies received and disbursed, and prepare an annual financial statement."

Section 9

Change: "January 1" to "immediately"

Section 10

Insert, after "make necessary appointments": recommend policy for adoption by the Association,

Add: The Steering Committee shall meet at least twice each year. A winter meeting shall be held as soon as convenient following the Annual Meeting, and the other will be at the time of the Annual Meeting. Other meetings may be called as necessary. The Steering Committee Meetings shall be devoted to appointments of committees, action on committee reports, consideration of constitutional changes, selection of honorary life members, and conduct of all other business of the Association. The principal business of the winter meeting will be the planning of the program for the Annual Meeting. The Association will pay expenses of members of the Steering Committee to the winter meeting if funds are not available from another source. Expenses at the Annual Meeting will not be paid by the Association.

SUSTAINING MEMBERS The role of the sustaining members of AMCBT is most obvious in the exhibit area at the Annual Meeting. Here all members are offered an opportunity to view the latest in equipment, materials and publications, and to talk with representatives concerning special problems. In addition to the person-to-person relationship, the membership dues of sustaining members is a major item in financing the organization and its activities.

The following firms have already paid dues for 1976-7 and will be exhibiting at the annual sessions. Others are expected to complete arrangements this month.

American Optical Company
E & L Instrument Company
Fisher Scientific Company
Hach Chemical Company

Paxton Processing Company
Sargent-Welch Scientific Company
Turtox/Cambosco,
Macmillan Science Company

OCTOBER MEETING NOTES Enclosed with this issue of MIDWEST BIOSCENE are materials for the October Meeting. Note that the deadline for pre-registration is Monday, September 27.

ACTIVE MEMBERS BENEFIT MOST Over sixty members are contributing to the annual program. In addition to the annual program there is another avenue through which members can contribute and share ideas. Beginning of a new school year is an excellent time to consider submission of material for publication in MIDWEST BIOSCENE.

Copy for MIDWEST BIOSCENE should be submitted according to the following schedule: May issue by April 10, September issue by July 10, November issue by October 10, February issue by January 10. In addition to articles, remember that notes regarding positions, requests for information, information which will be shared, letters to the Editor are all desired. Formal articles may concern reviews of special areas, new programs, workable laboratory experiments, teaching techniques, etc. Only you, the contributing member, can make the publication of value to the membership.

A NOTE REGARDING DUES The Application for Membership included in each issue of MIDWEST BIOSCENE is for use in securing new members. Please do not consider it a dues notice. Dues notices for present members will be in the form of a separate enclosure.

-----Detach Here-----

Application for Membership
ASSOCIATION OF MIDWESTERN COLLEGE BIOLOGY TEACHERS

// Regular Member (\$6.00) // Retired Member (\$3.00) *Dues payable July 1*

Name _____ Date _____

Title _____ Department _____

Institution _____

City _____ State _____ Zip _____

Address preferred for mailing _____

City _____ State _____ Zip _____

'Return to:
' AMCBT Central Office
' c/o John R. Carlock
' Illinois State Univ.
' Normal, IL 61761

TWENTIETH ANNUAL MEETING
of the
ASSOCIATION OF MIDWESTERN COLLEGE BIOLOGY TEACHERS

DrAKE UNIVERSITY, DES MOINES, IOWA
October 1-2, 1976

PROGRAM

Thursday, September 30

8:00 PM Steering Committee Olin, Rm. 235

Friday, October 1

9:00 AM - 2:00 PM Registration Olin, Rm. 207

10:00 AM - 12:00 Noon Field Trip: Pioneer Hybrid Olin, Rm. 232

10:00 AM - 12:00 Noon Tours of Olin Hall of Biology Olin, Rm. 235

10:00 AM - 12:00 Noon Film Festival Olin, Rm. 303

10:00 AM - 4:30 PM Exhibits Olin, Lobby

11:00 AM - 12:00 Noon "A Blueprint for Survival: An Alternate
Life Style" D. Scoby, North Dakota S.U. Olin, Rm. 101

12:00 Noon Open Lunch

1:00 PM General Session and Olin, Rm. 101

First Business Meeting

Russel Wagner, Presiding

Welcome

Dr. Wilbur Miller, President

Drake University

Report of Nominating Committee:

Neil Baird, Lee Hansen

Announcements:

Lane Wilson, Drake University

Opening Address:

"What Biology Teaching Ought to Be"

Leland P. Johnson, Drake University

Panel Response to Opening Address:

George Garoian, Southern Illinois University

Terry Gillespie, Park Forest, Illinois

Jack Bennett, Northern Illinois University

Edward Kos, Rockhurst College

3:15 PM Coffee Break Olin, Lobby

3:30 PM Group Discussion I - New Interfaces with Biology

A. Biology Interfacing with Human Values Olin, Rm. 101

Leader: Janice Kemp, St. Mary's Col, IN

Recorder: Russell TePaske, Univ. of N. Iowa

B. Human Chromosome Techniques Olin, Rm. 453

Leader: Michael Myszewski, Drake Univ.

Recorder: Richard Kowles, St. Mary's Coll., MN

C. Use of Simulations and Games Olin, Rm. 232

Leader: John Carlock, Illinois St. Univ.

Recorder: Jack Snyder, Eureka College

Friday, October 1 (Continued)

- D. Biology Electives for Non-Biology Majors Olin, Rm. 155
Leaders: John Hamilton, Park College
Edward Kos, Rockhurst College
William Downing, Hamline Univ.
Recorder: Donald Alsum, St. Mary's College
- 5:00 PM Social Hour - Cash Bar Olmsted Center
Mezzanine
- 6:30 PM Banquet Olmsted Center
Second Business Meeting: Parents Hall
Presentations
- 8:00 PM Address: "Locomotion in Protozoa" Olin, Rm. 101
Theodore Jahn, Professor Emeritus
Zoology Department
University of Calif. at Los Angeles

Saturday, October 2

- 8:30 - 11:00 AM Election of Officers Olin, Lobby
- 8:30 - 12:00 AM Exhibits Olin, Lobby
- 8:30 - 11:00 AM Coffee Olin, Lobby
- 9:00 - 12:00 AM Film Festival Olin, Rm. 303
- 9:00 AM Group Discussions - New Interfaces with Biology,
Part II
- E. Biology Interfacing with Health Careers Olin, Rm. 101
Leaders: Neil Baird, Millikin Univ.
Robert Owens, Parkland College
Recorder: Marvin Jessen, Grand View Coll.
- F. Use of Phase Contrast Microscopy Olin, Rm. 343
Leader: Harold Swanson, Drake University
Recorder: Don Huffman, Central College
- G. Use of Computers in Undergraduate Biology Olin, Rm. 155
Leaders: Ken Tuinstra, Central College
Warren Dolphin, Iowa State Univ.
Recorder: James Royce, Iowa Central Comm. Coll.
- H. Biology for the Disadvantaged Olin, Rm. 207
Leader: Ellen Korn, Jefferson Community Coll.
Recorder: Jeanette Feldballe, Edgewood Coll.
- 10:00 AM Group Discussions - New Interfaces with Biology,
Part III
- I. Biology Interfacing with non-health careers Olin, Rm. 101
Leaders: Terry Gillespie
Leland Hansen, Highland Conn. Coll.
Recorder: Daryl Stuhr, Illinois Valley CC
- J. Human Chromosome Techniques Olin, Rm. 453
Leader: Michael Myszewski, Drake Univ.
Recorder: Eugene Dehner, Benedictine Coll.
- K. Population Sampling that anyone can do Olin, Rm. 155
Leader: Richard Wilson, Rockhurst College
Recorder:

Saturday, October 2 (Continued)

- 11:00 AM
- L. Piaget and Neo-Piagetian Theories of Education Olin, Rm. 207
Leader: Keith Hanson, Univ. of Ill.
Recorder: Joe Kapler, Loras College
- Group Discussions - New Interfaces with Effective Teaching Part IV
- M. General Biology for Non-Majors Olin, Rm. 207
Leaders: Sr. Rosemary Connell, Fontbonne Coll.
Frank Mittermeyer, Elmhurst Coll.
Sherman Nystrom, Barton County Comm. Jr Coll.
Alfred Pogge, Quincy College
Ray Reed, Jefferson Comm. Coll.
Recorder:
- N. General Biology for Majors Olin, Rm. 344
Leaders: Harvey Johnson, Waldorf College
Chris Christensen, Iowa Central Comm. Coll.
Rodney Rogers, Drake University
Recorder:
- O. Anatomy and Developmental Biology Olin, Rm. 234
Leaders: Karl Goellner, Coe College
James Henry, Illinois Central College
Ralph Troll, Augustana College
Recorder:
- P. Human Anatomy and Physiology Olin, Rm. 155
Leaders: Martha Grotzinger, Black Hawk College
Kathryn Smith, Anoka-Ramsey State Comm. Coll.
Recorder:
- Q. Botany and Plant Science Olin, Rm. 232
Leaders: Laddie Bicak, Kearney State Coll.
Verona Burton, Mankato State Univ.
Harold Hansen, St. Olaf Coll.
Robert Kuster, Southeast Missouri State
Gerry Haukoos, College of DePage
Recorder:
- R. General Zoology and Invertebrate Zoology Olin, Rm. 346
Leaders: G.W. Bennett, Iowa Central Comm. Coll.
John Eliese, Kearney State Coll.
Larry Dowdy, Paducah Comm. Coll.
Donal Myer, SIU-Edwardsville
Rev. Carl Rice, St. Ambrose Coll.
Recorder:
- S. Microbiology Olin, Rm. 235
Leaders: William Dolak, Rock Valley Coll.
Patrick Sheridan, Moraine Park Tech. Inst.
Recorder:
- T. Environmental Sciences Olin, Rm. 150
Leaders: Alice Hayes, Loyola Univ.
Sr. Marie Johnson, St. Xavier Coll.
Hal Nagel, Kearney State Coll.
Robert VandenBranden, Drake Univ.
Recorder:
- 12:15 PM Luncheon Olmsted Center Terrace Room
- 1:00 PM Third Business Meeting Olmsted Center Bulldog Theater
- 1:30 PM Steering Committee Meeting Olmsted Center Bulldog Theater

M E E T I N G N O T E S

Lodging . A list of motels and hotels in Des Moines is included. Make your reservation directly with the motel or hotel. The HOLIDAY INN SOUTH has offered members of the Association a discount and is holding rooms for members. Identify your affiliation when you make a reservation. The Holiday Inn South has transportation from the airport. Members staying there can arrange car pools to the meeting. It is planned that members of the Steering Committee will be staying at this location.

Parking . S. Lane Wilson, Chairman of Local Arrangements reports that parking at Drake is like parking at all schools - A PROBLEM. Members can park in any of the lots and Lane thinks he can take care of parking tickets they get. Members parking on Des Moines City streets will have to worry about their own tickets. (Beware of streets with no parking from 7-9 AM and 4-6 PM.) The best parking for Friday will be the pay parking lot at Olmsted Center. Saturday there should be no problem in any Drake lot or on the street.

Phone Contact . An emergency phone contact for members at the meeting has been arranged. Call the Biology Office, Drake University, 515/271/3924. This phone will be staffed during working hours and on Saturday morning.

B R I N G A C O L L E A G U E
T O T H E A N N U A L M E E T I N G

Des Moines Hotels

ADVENTURELAND INN, 180 and Hwy 65, Altoona 265-2277
 Conference room, pool, 24-hour service, complimentary breakfast, 24-hour security, 24-hour laundry, 24-hour parking, 24-hour shuttle, 24-hour valet, 24-hour porter, 24-hour bellhop, 24-hour concierge, 24-hour doorman, 24-hour valet, 24-hour porter, 24-hour bellhop, 24-hour concierge, 24-hour doorman.

ALPINE VILLAGES INN - Des Moines West, 1100 Douglas East 26-123 231-1110 Units 278-4601
 Conference room, pool, 24-hour service, complimentary breakfast, 24-hour security, 24-hour laundry, 24-hour parking, 24-hour shuttle, 24-hour valet, 24-hour porter, 24-hour bellhop, 24-hour concierge, 24-hour doorman.

ARCHER MOTEL, 5220 Hubbard 29 Units 263-0368
 One mile south of Des Moines, highway 65 at 4. Swimming pool, children's playground, \$10.00 and up. Weekly rates available.

SAVARIAN HAUS REST WESTERN MOTEL, 5220 East 14th Street (180 Units) 265-5611
 Compl. TV, radio, pool, telephone, restaurant, bar, restaurant, and cocktail lounge adjacent, \$18.00 to \$28.00

HILTON INN DES MOINES, 6111 Fleur Drive (240 Units) 187-2400
 Across from Des Moines Municipal Airport. 300,000 sq. ft. with 1000 rooms and 5000 sq. ft. restaurant, bar, and lounge. Complete convention facilities.

HILTON INN WEST, 180 and Ashworth Road, West Des Moines (171 Units) 278-1800
 Central business district, 24-hour service, airport and convention facilities, 24-hour security, 24-hour laundry, 24-hour parking, 24-hour shuttle, 24-hour valet, 24-hour porter, 24-hour bellhop, 24-hour concierge, 24-hour doorman.

HOLIDAY INN DOWNTOWN, 1050 Sixth Ave. (260 Units) 283-0151
 Conference room, pool, garage, restaurant, cocktail lounge and bar. 24-hour service, \$22.00 to \$24.00

HOLIDAY INN MERLE HAY, 135 & 180 at Merle Hay Road (144 Units) 278-0271
 Conference room, pool, 24-hour service, 24-hour security, 24-hour laundry, 24-hour parking, 24-hour shuttle, 24-hour valet, 24-hour porter, 24-hour bellhop, 24-hour concierge, 24-hour doorman.

HOLIDAY INN NORTH, 3501 East 14th Street (147 Units) 285-2541
 Conference room, pool, restaurant, cocktail lounge, 24-hour service, \$22.00 to \$24.00

HOLIDAY INN SOUTH, 2101 Fleur Drive (300 Units) 283-1711
 Conference room, pool, 24-hour service, 24-hour security, 24-hour laundry, 24-hour parking, 24-hour shuttle, 24-hour valet, 24-hour porter, 24-hour bellhop, 24-hour concierge, 24-hour doorman.

HOWARD JOHNSON'S, 2525 Grand Ave (80 Units) 283-2251
 Conference room, pool, restaurant, cocktail lounge, 24-hour service, \$22.00 to \$24.00

HYATT HOUSE, 6215 Fleur Drive (200 Units) 285-4310
 Across from the airport. Conference room, banquet hall, 24-hour security, 24-hour laundry, 24-hour parking, 24-hour shuttle, 24-hour valet, 24-hour porter, 24-hour bellhop, 24-hour concierge, 24-hour doorman.

MIRAMOTEL, 5225 S. E. 14th Street (23 Units) 285-1180
 The quiet motel with reasonable rates, 24-hour complimentary - in house service, \$8.00 to \$10.00

NATIONAL MOTOR INN, 971 Sixth Ave. (151 Units) 283-2661
 Conference room, pool, restaurant, cocktail lounge, 24-hour service, 24-hour security, 24-hour laundry, 24-hour parking, 24-hour shuttle, 24-hour valet, 24-hour porter, 24-hour bellhop, 24-hour concierge, 24-hour doorman.

RAIAPADA INN DOWNTOWN, 929 Third Street (165 Units) 282-5251
 Conference room, pool, restaurant, cocktail lounge, 24-hour service, 24-hour security, 24-hour laundry, 24-hour parking, 24-hour shuttle, 24-hour valet, 24-hour porter, 24-hour bellhop, 24-hour concierge, 24-hour doorman.

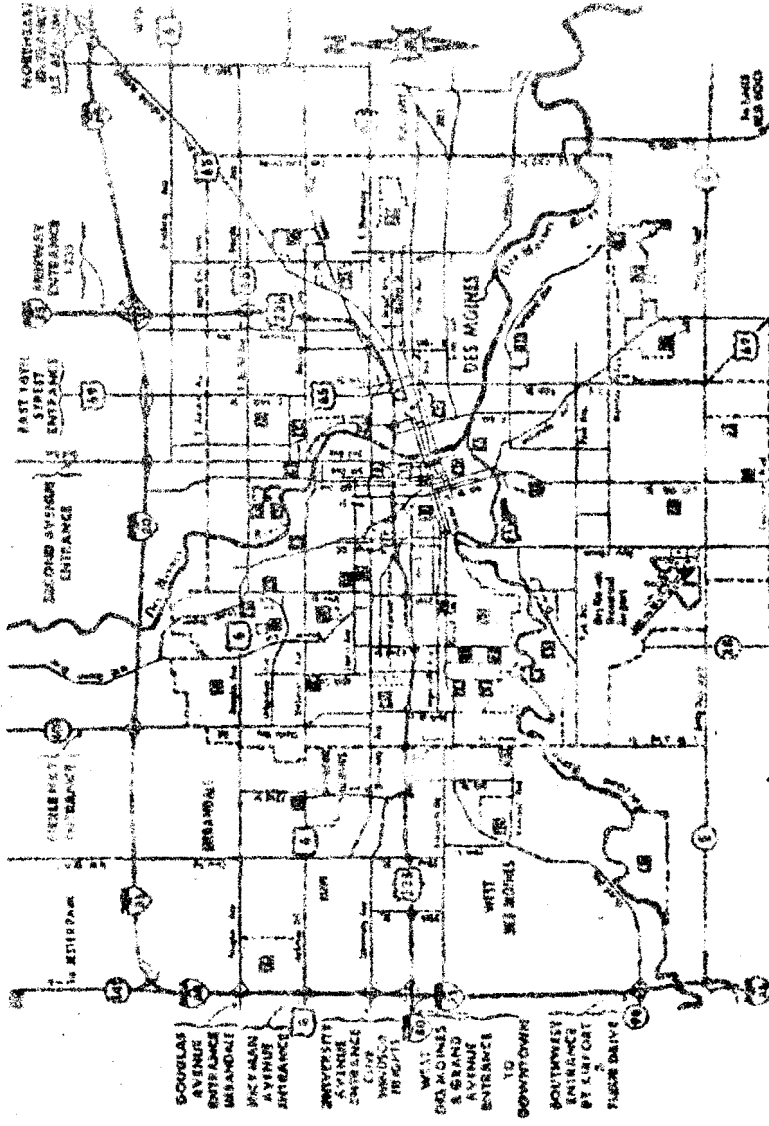
ROLLING PRAIRIE INN - BEST WESTERN, 1100 University of IA (40 Units) 225-2222
 Conference room, pool, restaurant, cocktail lounge, 24-hour service, 24-hour security, 24-hour laundry, 24-hour parking, 24-hour shuttle, 24-hour valet, 24-hour porter, 24-hour bellhop, 24-hour concierge, 24-hour doorman.

SHERRILL INN, 11040 Hickman (104 Units) 278-5525
 Conference room, pool, restaurant, cocktail lounge, 24-hour service, 24-hour security, 24-hour laundry, 24-hour parking, 24-hour shuttle, 24-hour valet, 24-hour porter, 24-hour bellhop, 24-hour concierge, 24-hour doorman.

TRAVELER, 2021 Grand Avenue (100 Units) 283-9491
 Conference room, pool, restaurant, cocktail lounge, 24-hour service, 24-hour security, 24-hour laundry, 24-hour parking, 24-hour shuttle, 24-hour valet, 24-hour porter, 24-hour bellhop, 24-hour concierge, 24-hour doorman.

WALNUT CREEK INN, 1258 Eighth Street West Des Moines (70 Units) 274-4105
 Conference room, pool, restaurant, cocktail lounge, 24-hour service, 24-hour security, 24-hour laundry, 24-hour parking, 24-hour shuttle, 24-hour valet, 24-hour porter, 24-hour bellhop, 24-hour concierge, 24-hour doorman.

THE WEBSTER INN BEST WESTERN, 3501 Westman Parkway (150 Units) 278-2324
 Conference room, pool, restaurant, cocktail lounge, 24-hour service, 24-hour security, 24-hour laundry, 24-hour parking, 24-hour shuttle, 24-hour valet, 24-hour porter, 24-hour bellhop, 24-hour concierge, 24-hour doorman.



1. Abby Park
2. Ashworth Park
3. Art Center
4. Beardsley Park
5. Birkbeck Pool
6. Blueprints of Des Moines
7. Brook Park & Golf Course
8. Broadview Hospital
9. Chas. Gray Damour Woods
10. Children's Forest
11. Children's Zoo
12. Valley of Des Moines
13. Des Moines Farms of Service & Industry
14. Des Moines General Hospital
15. Des Moines Ice Arena
16. Drake Stadium
17. Drake University
18. Leitch Lake
19. Leitch Park
20. Good Park & Pool
21. Grand View College
22. Grand View Park
23. Guy's Lake & Park
24. Greenwood Park
25. Kilday Park & Pool
26. Iowa State Fairgrounds
27. Jordan Park
28. Young Men's Home
29. Veterans Hospital
30. McEneaney Park
31. McKinley Park
32. Mercy Hospital
33. Methodist Hospital
34. Methodist Hospital
35. Methodist Hospital
36. Pioneer Park
37. Railroad Park
38. Sherman Park
39. Lakeland Home
40. Sgt. Taylor Memorial
41. Cookman Park

Hotels

- *FORT DES MOINES HOTEL, 243-1181**
 Teeth and Walnut (400 Rooms)
 Convention and banquet facilities - garage - complimentary service - restaurant and cocktail lounge. Family plan - children under 12 free. King size beds. \$15.00 to \$22.00
- *HARVY HOTEL, 244-2251**
 301 Locust (65 Rooms)
 Restaurant - cocktail lounge - nightclub. Free over night parking \$2.00 to \$2.00
- GENERAL HIGHWAY MOTEL, 276-3411**
 5703 Urbandale (120 Units)
 TV - conference room - direct dial phone - 24-hour neighborhood service - free parking - restaurant - cocktail lounge. \$9.00 to \$18.00
- *HARVY HOTEL, 244-2251**
 301 Locust (350 Rooms)
 A recently built hotel - conference room - 24-hour neighborhood service - free parking - restaurant - cocktail lounge. \$9.00 to \$18.00

42. State Capitol & National Building
43. Jackson Park
44. Union Park
45. Veterans Memorial
46. Veterans Memorial Building
47. Grand View Park
48. Water Works & Park
49. Washington Park
50. Leitch Lake
51. Wilson Park

PRE-REGISTRATION AND MEAL RESERVATION
for
ASSOCIATION OF MIDWESTERN COLLEGE BIOLOGY TEACHERS
TWENTIETH ANNUAL CONFERENCE

Drake University
Des Moines, 50311

October 1-2, 1976

Name _____

Institution _____

City _____ State _____ Zip _____

AMCBT Member (No registration fee for members)

Non-member (Non-members will be assessed a \$3.00 registration fee,
payable at the meeting.)

Field Trip: On October 1 (Friday, 10-12 a.m.) arrangements have been made for a field trip for a tour of the facilities and laboratories of Pioneer Hybrid. If you think that you would like to participate please indicate the proper responses. Private cars will be used as transportation.

I plan to go on the field trip to Pioneer Hybrid

I will need transportation

I will be taking a car and can provide transportation

Meal Reservations

Lunch on October 1 and 2, and breakfast on October 2 may be obtained at the Olmsted Center, Terrace Room Cafeteria. These meals may also be obtained at restaurants or motels in the area. No reservations will be necessary for these meals.

Advance reservations will be necessary for the following meals.

Deadline: RESERVATIONS MUST BE MADE NO LATER THAN SEPTEMBER 27, 1976.

Banquet, October 1 \$6.25 # _____ Amount _____

Luncheon, October 2 \$3.50 # _____ Amount _____

Total _____

(Please do not include membership dues in check sent for reservations)

Make checks payable to: DRAKE UNIVERSITY

Mail to: Phyllis Kingsbury
Biology Department
Drake University
Des Moines IA 50311