

1974

Appendix to the Conference

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Recommended Citation

(1974). Appendix to the Conference. *Journal of the Minnesota Academy of Science, Vol. 40 No.1, 74-79*. Retrieved from <https://digitalcommons.morris.umn.edu/jmas/vol40/iss1/13>

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APPENDIX TO THE CONFERENCE

PLANNING AND ORGANIZATION

The 1974 Industry-Education Conference of the Minnesota Academy of Science was planned and directed by a committee of statewide geographic scope and broadly-based interests. Members are listed here to reflect the organizational scope of the undertaking.

CENTRAL STEERING COMMITTEE:

Chairman: Neil Sherburne, Vice-chairman of the University of Minnesota Board of Regents and Secretary-Treasurer, Minnesota AFL-CIO.

Executive Vice Chairman: Edmund C. Bray, Minnesota Academy of Science.

Vice Chairmen: Dr. John Jackson and Willard Brosz of the Green Giant Company, LeSueur, Minn.

Program: Barbara Clark, Minnesota Environmental Sciences Foundation, and T. Lance Holthusen, Science Museum of Minnesota.

Participants: Theodore Molitor, Minnesota and National Teachers Associations.

Arrangements: M. I. Harrigan, Executive Director, Minnesota Academy of Science.

Publication: Angelo Cohn, Editor, *Journal* of the Minnesota Academy of Science.

OTHER ADVISORY COMMITTEE MEMBERS

Laird Anderson, Minnesota Mining and Manufacturing Company.

Victor L. Arnold, Commission on Minnesota's Future.

John Borchert, University of Minnesota.

Roland Comstock, Northern States Power Company.

Julia Copeland, Minneapolis Public Library.

David Durenberger, H.B. Fuller Company.

William Ferstenracher, Minnesota State College System.

Roger Grosslin, Minnesota Department of Natural Resources.

Peter Gove, Office of the Governor of Minnesota.

Albert Hagendorn, Mayo Clinic.

Gerald Hays, Minnesota State College System.

I. James Holton, Hormel Corporation.

Floyd Keller, Minnesota State Department of Education.

Robert Kimball, Minnesota Environmental Education Council.

Milton Knoll, Hoerner Waldorf Corporation.

James Lufkin, Honeywell, Incorporated.

William Miles, Minnesota Environmental Education Council.

John Miller, Minnesota State Department of Education.

Oliver Perry, Minnesota Association of Commerce and Industry.

Roger Schoenecker, Minnesota Department of Natural Resources.

Clifford Simak, Minneapolis Star and Tribune.

Richard Swalin, Dean, Institute of Technology, University of Minnesota.

Charles Wacheler, Minnesota Department of Natural Resources.

Mr. Walter Bmgan of the Office of Environmental Education in the U.S. Office of Education participated in numerous committee meetings and served as liaison representative of the federal agency, which supported the conference under Project Grant Number OEG-0-73-6623.

INSTRUCTIONS TO REGISTRANTS

Following is an edited version of an introductory statement included in the pre-conference scenario booklet. A map indicating the home areas of the registrants and a list also were included in the front of the booklet as a means of encouraging pooling of transportation to the conference location at Onamia, Minn.

BACKGROUND

The Minnesota Academy of Science has sponsored several Industry-Education Conferences since 1958. The 1974 conference represents a more comprehensive approach to coordinate the concerns of industry and education in the State of Minnesota.

PROGRAM FOCUS

The major focus of the program is on environmental impact. This includes the impact of governmental and industrial activity on the physical environment of Minnesota as well as on various social and human systems. Conference participants were asked to think about the "total" impact of major institutions on the "total"

environment of the State. A strong emphasis is being placed on the Minnesota environment in 1985.

The program has been directed toward the "probable" future environment of Minnesota based on an extrapolation of present trends and on the creation of "possible" or "desired" futures which go beyond or are contrary to present trends. A major emphasis focus is on the role of education as the primary instrument for creating a desirable future environment for the state.

CONFERENCE OBJECTIVES

The following objectives have been adopted by the conference committee:

1. To analyze trends in Minnesota (operations and plans of major public and private institutions) and gain a more comprehensive picture of the state's future environment.
2. To create alternatives to the future environment based on an extrapolation of present trends; to articulate a spectrum of possible and desired futures.
3. To stimulate thinking toward utilization of the state's educational system in creating a more desirable environment.
4. To produce a useful product in the form of information which can be shared throughout the state, primarily in the industrial and educational sectors.
5. To create a prototype or model program which can be used elsewhere through the influence of the U.S. Office of Education.

PROGRAM COMPONENTS

In order to manage the broad scope of the conference, the Minnesota environment has been broken into a series of components or systems. This list is not exclusive, but it does represent components of the state's environment which are most critical for the future. The following components have been selected:

THE EDUCATION/COMMUNICATION SYSTEM

THE ENERGY SYSTEM

THE GOVERNMENT SYSTEM

THE ECONOMIC & INDUSTRIAL SYSTEM

THE NATURAL SYSTEM

THE TRANSPORTATION SYSTEM

USE OF SCENARIOS

The conference will make use of "scenarios," which are background narratives to reflect or describe a future condition that can be evaluated as being either desirable or undesirable.

In addition to being excellent education tools, scenarios tend to stimulate creative thinking. It is hoped that this technique will elicit innovative ideas and concepts from conference participants.

SCENARIO DEVELOPMENT

The following specialists have been engaged to construct the scenarios. They are chosen because of their familiarity with the subject area, their regional or national perspective, and their ability to analyze and communicate pertinent information.

THE
EDUCATION/COM-
MUNICATIONS SYSTEM

Dr. Floyd Keller, Director of Instruction,
Minnesota State Department of Education

Dr. Robert Fallon, Superintendent of
Schools, Eden Prairie, Minnesota

THE
ENERGY
SYSTEM

Dr. Dean E. Abrahamson
Associate Professor of Public Affairs,
University of Minnesota; Member of the
Ford Foundation Energy Policy Project

THE
GOVERNMENT
SYSTEM

Dr. Arthur Naftalin, Professor of
Public Affairs, University of Minnesota
Ms. Frances Naftalin, Co-Chairperson,
Commission on Minnesota's Future

THE
ECONOMIC/INDUSTRIAL
SYSTEM

Dr. Bruce K. MacLaury, President,
Federal Reserve Bank of Minneapolis;
Co-Chairman, Commission on Minnesota's Future

THE
NATURAL
SYSTEM

Dr. John R. Borchert, Professor of
Geography; Director, Center for Urban and
Regional Affairs, University of Minnesota

THE
TRANSPORTATION
SYSTEM

Dr. David Graven, Professor of Law,
Chairman, Development Guide Committee,
Metropolitan Council

PARTICIPATION

The participants in the conference are considered resource persons. Selection is based on their relationship to Minnesota institutions, their geographic location within the state, their interest in Minnesota's future environment and their leadership capabilities. The following breakdown of participants has been established, on an arbitrary figure of 200 who might attend.

85 from education and communication

50 from business and industry

15 from labor organizations

25 from government agencies

25 from citizens organizations

The larger representation from education and industry emphasizes the main purpose of the conference — to influence industry and education to become more actively involved in creating the state's future environment.

PROGRAM AGENDA

Sunday, May 12

3:00 PM Registration

5:30 Keynote Address

6:30 Dinner Table Discussions

9:00 Component Group Orientation

Monday, May 13

9:00 AM Component Group Meetings (Workshop Assignments)

9:30 Small Group Workshops

11:00 Component Group Meetings (Workshop Reports)

12:00 PM Lunch/Component Group Reports

1:30 Small Group Workshops

3:00 Component Group Meetings (Workshop Reports)

4:00 Component Group Reports

5:00 Free Time

6:30 Invited Address

Tuesday, May 14

9:00 AM Component Group Meetings (Workshop Assignments)

9:30 Small Group Workshops

11:00 Component Group Meetings (Workshop Reports)

12:00 Lunch/Component Group Reports

1:30 Invited Address and Post-Conference Assignments,

2:30 Summary Session.

THE AFTERMATH

There is a strong desire that the impact of this conference be felt far beyond the participants. Therefore, a part of the conference design is to expand the information to numerous locations throughout Minnesota.

Participants from the educational sector are being asked to plan abbreviated conferences in their regions. Other participants also will be asked to assist by sharing and spreading the information.

INTRODUCTORY LETTER

This letter went to persons registered for the conference with a booklet containing scenarios prepared by specialists as a basis for discussion and other information about the meeting, including a registration list.

Dear

The enclosed booklet contains six scenarios describing aspects of Minnesota's future environment. Each has been developed by a person or persons who are experts in their field. The scenarios identify and analyze trends from now to the year 1985 according to six environmental components. These scenarios will serve as the basis of discussion at the forthcoming conference on the "Future Environment of Minnesota: The Educational Task" scheduled for May 12-14, 1974, at Onamia, Minnesota.

Following each scenario you will find a response form. Please read each scenario carefully and complete the accompanying form. Immediate and candid responses will be the most valuable. Your responses will be shared with scenarios writers and component group leaders early in the conference.

The six completed forms must be submitted as you register on the afternoon of May 12. Those who have not completed the forms by that time will be asked to do so prior to registering. Please do not return your forms by mail.

Please note that each scenario is color coded. As you register, you will be assigned to a "component group" which will concentrate on one of the scenarios. Your name tag will indicate the group to which you have been assigned. The number on your name tag will indicate the workshop group you are assigned to.

It is important that you complete the scenario readings as early as possible. They will introduce you to major trends in the State, and they will provide a basis for discussing alternative futures for Minnesota.

We look forward to your participation in this conference.

Sincerely,

"TICKET" FOR ATTENDANCE

In the pre-conference booklet, each scenario was followed by the accompanying form, and registrants were required to reply on this form to each scenario. The forms were collected at the beginning of the conference and distributed to the appropriate workshop groups.

SCENARIO SUBJECT: _____

THIS IS YOUR TICKET TO THE CONFERENCE. THIS FORM MUST BE COMPLETED AND SUBMITTED AT THE REGISTRATION DESK ON MAY 12.

Name of Component _____ (energy, transportation, etc.)

1. Each system includes several subsystems (i.e. the transportation system might include highways, railways, airways, etc.). Did this paper include all the subsystems? If not, list those excluded and explain.

2. Did the paper adequately describe the present status of the system? If not, what do you disagree with and what points would you add?

3. Do you agree that the general trends of the system from now to 1985 are depicted accurately? If not, list your points of disagreement.

4. What is the probability of the 1985 scenario being accurate? Indicate your own estimate of probability on the following scale:

High Probability | | | | | | | | | | Low Probability
1 2 3 4 5 6 7 8 9 10

Name of Participant _____

Participants

The following persons, representing many areas of the state and interest groups, participated in the 1974 Industry-Education Conference of the Minnesota Academy of Science:

- Dr. Dean Abrahamson, University of Minnesota.
 Elmer L. Andersen, former Governor of Minnesota.
 Jo Ann Augst, Minnesota Pollution Control Agency.
 Robert C. Baker, Bemidji State College.
 Ms. Harriet Ball, St. Cloud, Minn.
 Joel Barker, St. Paul Academy — Summit School.
 William Bergen, St. Paul, Minn.
 Ms. Wendy Bersheim, Minnesota Retail Federation.
 Dr. John Borchert, University of Minnesota.
 Edmund C. Bray, Minnesota Academy of Science.
 Randy Brown, Blake School.
 Dr. Phillip Buckley, Crookston, Minn.
 Carl J. Carlson, Austin, Minn.
 Peggy Charles, Bureau of Sport Fisheries and Wildlife.
 Don Chamberlin, Navarre, Minn.
 Gerald Christensen, State Planning Agency.
 Miss Barbara Clark, Minn. Environmental Science Foundation.
 Richard Clark, Minn. State Department of Education.
 Ms. Marti Colwell, Science Museum of Minnesota.
 Roland Comstock, Northern States Power Co.
 Mrs. Julia Copeland, Minneapolis Public Library.
 John Coulter, St. Cloud State College.
 Dr. Don Darling, Mankato State College.
 Dr. Roger DeRoos, University of Minnesota.
 Mrs. Barbara Donoho, Mayor, Fergus Falls, Minn.
 David Douglas, Minnesota Academy of Science.
 Richard Erdall, Minneapolis, Minn.
 Scott Erickson, University of Minnesota.
 Dr. Robert Esbjournson, Gustavus Adolphus College.
 Dr. Robert Evans, University of Minnesota.
 Earl Ewald, Northern States Power Co.
 Robert Fallon, Superintendent, Eden Prairie, Public Schools.
 Merrill C. Fellger, Buffalo, Minn.
 Dr. Dan Ferber, White Bear Lake, Minn.
 Ed Finklea, Environmental Service Bureau.
 Dr. Robert Frost, St. Cloud State College.
 Ervin J. Gaines, Director, Library.
 Dr. David Graven, University of Minnesota.
 John C. Green, University of Minnesota, Duluth.
 Dr. Barbara Gudmundson, North Star Research Institute.
 Dr. Albert Hagendorn, Rochester, Minn.
 Dr. Robert Hanson, Iowa Academy of Science.
 Kristen Harkness, St. Paul, Minn.
 M.I. Harrigan, Minnesota Academy of Science.
 Ms. Diana Hays, Science Museum of Minnesota.
 Robert L. Heller, University of Minnesota, Duluth.
 Kent A. Hinshaw, St. Paul, Minn.
 Kathryn H. Hoelmer, Waseca, Minn.
 Dr. John Holden, Mankato State College.
 Dennis R. Holloway, University of Minnesota.
 C.L.R. Holt, U.S. Geological Survey.
 Lance Holthusen, Science Museum of Minnesota.
 Shirley Hunt, Minneapolis, Minn.
 Dr. John Jackson, Lakeside, Minn.
 Jerry Jensen, Minnesota Department of Natural Resources.
 Betty Johnson, Roseau, Minn.
 State Senator J.A. Josefson, Minnesota, Minn.
 Floyd Keller, State Department of Education.
 Robert Kimball, St. Paul, Minn. 55101.
 John Knievel, Northern States Power Co.
 Harold Koeck, St. Paul, Minn.
 Marina Lachecki, Ashland, Wis.
 Miss Pamela Landers, Olivia, Minn.
 David A. Lanegran, Macalester College.
 Pauline Langsdorf, Crystal, Minn.
 Keith Larson, Bureau of Sport Fisheries and Wildlife.
 Mike Latimer, Blandin Paper Co., Minn.
 William Lieb, Science Curriculum Committee.
 Carl Linde, Hopkins, Minn.
 Dr. James Lindsay, TIES Project.
 Naomi Loper, Minneapolis, Minn.
 Dr. James Lufkin, Honeywell, Inc.
 Bruce MacLaury, President, Ninth District, Federal Reserve Bank.
 Tim McKeown, MPIRG.
 Dr. Dennis Mathiason, Moorhead State College.
 Joseph B. Michel, Richfield Senior High School.
 Gordon Mikkelson, WCCO Radio.
 John Miller, Department of Education.
 Theodore Molitor, St. Paul, Minn.
 Esther Morrow, Minneapolis, Minn.
 Richard Myshak, Minnesota Environmental Science Foundation.
 Dr. Arthur Naftalin, University of Minnesota.
 Ms. Frances Naftalin, Minneapolis, Minn.
 Mr. Jan Nelson, Redwood Falls, Minn.
 John Olson, Fosston, Minn., High School.
 Don Opsal, Alexandria, Minn.
 Howard Osborn, Concordia College.
 Jack Parsons, Northwestern Bell.
 Mrs. Mabel A. Perry, Minneapolis, Minn.
 Joe Premo, Minneapolis Public Schools.
 William Price, University of Minnesota.
 Jean Replinger, Southwest State College.
 Dr. Joseph Rossillon, Olivia, Minn.
 Gary Russell, Olivia, Minn.
 Robert H. Samples, Minneapolis, Minn. 55411.
 Robert Sheldon, AAA, Burnsville, Minn.
 Dr. Stirling Stackhouse, Honeywell, Inc.
 William M. Stalpes, Osseo, Minn.
 George Starr, Duluth, Minn.
 Clarence Steman, Bell Museum of Natural History, University of Minnesota.
 Dr. Patricia Swan, University of Minnesota.
 Philip Taylor, Director, Science Museum of Minnesota.
 Dr. Ellen Temple, State Highway Department.
 John Tester, University of Minnesota.
 George Thiss, Upper Midwest Council.
 Dr. Patrick Trihey, Bemidji State College.
 Matt Walton, Director, Minnesota Geological Survey.
 William Walton, University of Minnesota.
 Donald White, University of Minnesota.
 Dr. John White, Honeywell, Inc.
 Cisela Wildes, Wayzata, Minn.
 John L. Wilson, St. Paul, Minn.
 Duane J. Zytovicz, Minneapolis, Minn.