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Proceedings of the Seventy-Third Meeting of the Iowa Academy of Science held at Simpson College, Indianola, April 14 and 15, 1961: Minutes of the 1961 Meeting

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Proceedings of the Seventy-Third Meeting of the Iowa Academy of Science held at Simpson College, Indianola April 14 and 15, 1961

Minutes of the 1961 Meeting

President George C. Huff presided over the opening meeting held at 11:00 a.m., April 14, 1961, in Great Hall. About 500 persons attended this meeting. President Huff introduced Professor R. F. Thorne of the State University of Iowa, who gave the invited address on the subject "The Rain Forest of Australia."

Luncheon was served in Pfeiffer Hall, after which members attended section meetings.

The second general meeting was called to order by President Huff at 3:45 p.m. in Great Hall. President William E. Kerstetter of Simpson College welcomed the Academy to the campus.

The Clinton Foods Science Scholarship Awards were presented in a ceremony directed by Dr. J. D. Woods. Dr. Ronald T. Pflaum, representing the Iowa Section of the American Chemical Society, presented the 1961 Iowa Science Teachers Award to Jean Crane of the Creston High School.

The Presidential Address was delivered by Dr. George C. Huff.

The annual business meeting followed. Reports of the Board of Directors, Secretary-Treasurer, Auditing Committee, Editor, and Librarian were presented and accepted. The following standing committee reports were read and accepted: Conservation, Finance and Endowment, High School Relations, Membership, and Science Talent Search. The combined reports and recommendations of the Science Teaching Committee and the Committee on the Preparation and Certification of Teachers were read and approved. The Special Interim Committee reported on the management of the Parish Farm. The report of the Resolutions Committee was adopted.

A recommendation to change Article Three of the by-laws to include Conservation as a ninth section was approved.

The persons presented for the Board of Directors by the Nominating Committee were elected. They were:

President—Robert L. Hulbary, Iowa City
Vice President—G. Chester Leu, Pella
Secretary-Treasurer—Paul F. Romberg, Ames
Editor—T. Edwin Rogers, Mount Vernon
K. D. Carlander, Ames
George C. Huff, Des Moines
Don Lewis, Iowa City
W. J. Poppy, Cedar Falls
Dorothy M. Matala, Cedar Falls
Frank W. Starr, Cedar Falls
J. D. Woods, Des Moines

Mrs. Elizabeth T. Rogers was appointed associate editor of the annual *Proceedings*.

President Huff yielded the chair to the new president, Robert L. Hulbary.

A committee consisting of George C. Huff, Chairman, H. L. Dean, and W. C. Oelke, Jr., was appointed to administer the AAAS grants. The section chairmen for 1961-1962 were announced. They were:

Botany—J. L. Carter, Indianola
Chemistry, Inorganic and Physical—O. N. Carlson, Ames
Chemistry, Organic and Biological—Glen A. Russell, Ames
Conservation—Arnold O. Haugen, Ames
Geology—Mary C. Parker, Iowa City
Mathematics—Hazel M. Rothlisberger, Dubuque
Physics—Sister Mary Briant, Dubuque
Psychology—W. G. Fruehling, Waverly
Zoology—H. L. Rundell, Sioux City

The meeting was adjourned at 5:45 p.m.

The members of the Senior Academy met at 6:15 in Pfeiffer Hall for the annual dinner.

At 8:00 p.m. in Great Hall about 400 persons heard the Academy Address, "A Setting for the Scientist", by Dr. David G. Barry, Consultant for the Research Foundation, State University of New York.

On Saturday forenoon, in addition to the usual section meetings, the following events were scheduled:

1. The new AIBS Film Series.
2. An invited address by Dr. Karl Borg, Veterinary Medicine Laboratory, University of Stockholm, entitled "Wildlife and Wildlife Diseases in Sweden."
3. A symposium for high school, college, and university science teachers on the "Iowa Visiting Scientist Program." Dr. T. R. Porter was moderator.

of CUPM," Dr. W. C. Orton of the University of Arkansas and panel.

5. Dr. John F. Baxter, of the University of Florida, spoke on the production of films in chemistry and in particular on his TV Chemistry Series.

These events terminated a very successful and well attended meeting of the Iowa Academy of Science. Registered attendance was 620.

CLARENCE H. LINDAHL, *Secretary*

Report of the Board of Directors

The Board of Directors of the Iowa Academy of Science was called to order at 3:20 p.m. on Thursday, April 13, in the library of Carver Science Hall at Simpson College. All members were present except two whose official duties prevented them from coming until Friday.

Reports of the Secretary-Treasurer, Auditing Committee, Editor, Librarian, Parish Farm Committee, and the Committee on Preparation and Certification of Teachers were read and accepted by the Board, as were the reports of the six standing committees.

The following actions were taken by the Board:

(1) The editor of the *Proceedings* was instructed to set up policies which will reduce the number of pages in the *Proceedings* and improve the general quality of the material published.

(2) The Special Interim Committee of Huff, Lewis, and Lindahl was commended for its supervision of the Parish Farm and was continued with power to act for the Board through April, 1962.

(3) The editor of the *Proceedings* was instructed to omit publishing the full membership list until 1965. However, each year the names of new associates, new fellows, transfers from associate to fellow, honorary fellows, emeritus fellows, and life fellows will appear in the publication.

(4) It was recommended that the Academy underwrite twenty percent of any deficit which might occur in the publication of a "Source Book in Conservation Education" by the Iowa Conservation Education Council to the extent of three hundred and fifty dollars.

(5) It was recommended that Article Three of the by-laws

be amended to include Conservation as a ninth section. It had been included in 1961 on a trial basis.

(6) A motion was carried that the recommendations of the Science Teaching Committee and the Committee on Preparation and Certification of Teachers be supported.

(7) A motion was carried to give an additional seventy-five dollars to the Junior Academy during 1961, if it is needed.

(8) The 1962 meeting dates were set for April 13 and 14 at Wartburg College in Waverly.

(9) The 1963 meeting will be held in Ames. Invitations are solicited for 1964.

(10) A proposed budget was adopted.

The Board adjourned at 11:15 p.m. after setting Thursday, April 12, 1962, at 3:00 p.m., as its next regular meeting date.

CLARENCE H. LINDAHL, *Secretary*

Financial Statement

December 31, 1960

Current Expense Account

Balance on hand January 1, 1960	\$2,134.59
RECEIPTS	
Dues collected during 1960	\$2,606.00
Interest on U. S. Bonds	119.00
Surplus from exchange of scientific documents	179.60
AAAS grants	390.00
Rental on Parish farm	2,100.00
	Total receipts during 1960
	\$5,394.60
	Total
	\$7,529.19

EXPENDITURES

Stationery and printing	\$ 613.63
Postage	548.04
Jiffy bags	64.04
Secretary's miscellaneous expense	19.02
Editor's clerical help	75.00
Editor's office expenses (volume 67)	55.96
Reprints for authors	169.25
Secretary's clerical help	180.57
C. H. Lindahl, Honorarium	100.00
T. Edwin Rogers, Honorarium	100.00
D. C. Stroud, Honorarium	50.00
Returned check	2.00
1960 AAAS delegate expense	150.00
Support of 1960 section programs	11.91
AAAS research grants:	

Sisters Mary Briant and Mary John Catherine,

Wartburg College, 110.00

James L. Christiansen, Buena Vista College	130.00	
L. R. Caswell, Upper Iowa University	150.00	
1960 Academy speakers, honoraria and expenses	483.13	
Academy Conference, contribution	29.12	
Iowa Junior Academy of Science	75.00	
Bank charges08	
Telephone calls (W. C. Oelke)	33.45	
Mileage:		
R. L. Hulbary	16.38	
C. H. Lindahl	7.98	
Don Lewis	18.55	
Parish Fund		
Flowers	10.20	
Telephone calls	9.62	
Mileage	61.27	
Repair on tenant house	1,225.00	
		<hr/>
Total expenditures		\$4,499.20

Balance on hand December 21, 1960, on deposit, Union
Story Trust and Savings Bank, Ames, Iowa

Parish Fund	\$ 793.91	
General Fund	2,236.08	
		<hr/>
		\$3,029.99

Savings Account

Balance on hand January 1, 1960	\$2,078.52	
Interest on savings account	62.80	
		<hr/>
Balance on hand December 31, 1960, on deposit, Union Story Trust and Savings Bank, Ames, Iowa		\$2,141.32

Bonds

U. S. Savings Bonds, Series G	\$2,000.00	
U. S. Savings Bonds, Series K	3,000.00	
		<hr/>
Total value of bonds held December 31, 1960		\$5,000.00

Statement of Total Assets

Operating Fund (checking account)		
Regular	\$2,236.08	
Parish Memorial Fund	793.91	
Reserve Fund	2,000.00	
Endowment Fund	4,791.32	
Herbert Osborn Revolving Publication Fund	350.00	
		<hr/>
Total assets, December 31, 1960		\$10,171.31
Total assets, January 1, 1960		9,213.11
		<hr/>
Gain in assets during fiscal year		\$ 958.20

Report of the Auditing Committee

We have examined the financial records of the Iowa Academy of Science and the Financial Statement for December 31, 1960, and find accounts in good order. We have personally viewed all assets.

JOHN A. BATH
FRED ROBERTSON

Report of the Editor

Copies of Volume 67 of the *Proceedings of the Iowa Academy of Science* were placed in the mail for distribution to libraries on December 27, 1960. The Wallace-Homestead Company of Des Moines printed the 1,920 copies of the 677-page volume. It is a pleasure to acknowledge again their excellent workmanship and kind cooperation.

The practice of assembling reprints for authors from additional unbound copies of the book was continued in 1960. One hundred copies were sent to each author free of charge.

The editor wishes to express his appreciation to Dr. Clarence Lindahl, to Mr. S. E. Tennant, State Superintendent of Printing, and to the authors and section chairmen for their contributions to the publication of this volume.

T. EDWIN ROGERS, *Editor*

Report of the Librarian

The Library of Iowa State University of Science and Technology is the official depository for the *Proceedings of the Iowa Academy of Science*. It also serves as the distribution agency for the *Proceedings*, including gifts, sales, and exchanges.

A total of 1,816 copies of volume 67, 1960, has been distributed. The majority of these was sent to members of the Academy, but at the same time an ever-increasing number of copies is being sent to libraries in foreign countries in exchange for publications which will significantly strengthen the book collections of the Library at Iowa State University.

The exchange copies were sent to 130 libraries of the United States and to 264 libraries in foreign countries, the latter being a net increase of 23 foreign exchanges during the year covered by this report. By way of illustration, 31 copies were sent to institutions in Japan, 24 to Germany, 12 to Poland, and 8 to

Russia. The remainder of the foreign mailings went to libraries in 48 other countries. It is gratifying to know that the distribution of the *Proceedings* is such that copies are on file the world over, including institutions located in the Iron Curtain countries.

Copies of the *Proceedings* sent to members in 1960 showed an increase of 39 over the number mailed the previous year.

The reserve stock of back volumes maintained by the Library is drawn upon frequently to enable other libraries to complete their holdings or to provide sets for libraries with whom exchange arrangements have just been made. Copies of all volumes are on hand except volume 1, 1887-1893, and volume 6, 1898. If members holding these volumes would care to return them to the Librarian, they would be most welcome.

The following statistics indicate the distribution of volume 67, 1960:

Sent to members	1,361
Sent on exchange	394
Sent on subscription:	
Standing orders	18
Special orders	11
Gifts to libraries, government agencies, and abstracting journals	32
	<hr/>
Total copies distributed	1,816
Remaining copies available	120

ROBERT W. ORR, *Librarian*

Report of the Committee on Finance and Endowment

A review of the Financial Statement for 1960 readily reveals that the Academy is fully solvent. As usual in recent years, a gain in assets occurred — a gain of \$958.20. However, a major part of this gain, \$793.91, arose from unexpended income from the Parish farm. The gain in the Operating Fund was only \$164.91. The committee views the smallness of this amount with favor and would emphasize the fact that a deficit did not occur despite the expenditure of almost \$500 in support of the 1960 meeting of the Academy in Iowa City.

In relation to the Parish farm, this committee has reviewed the decisions and actions of the Special Interim Committee and is in complete accord with them. It recommends their approval by the Board of Directors and by the Academy as a whole. No recommendations are made at this time regarding either the management of the farm beyond 1962 or the expenditure of income from it for scientific purposes. However, an appropriate

policy would seem to be the establishment of the Jessie A. Parish Memorial Fund, with receipts and expenditures kept separate from those in the General Fund.

VICTOR W. BOLIE
 IRVIN H. GERKS
 LELAND P. JOHNSON
 ROY A. NELSON
 FRANK C. PENNINGTON
 DON LEWIS, *Chairman*

Report of the Membership Committee

On January 1, 1961, there were 1,560 members in the Iowa Academy of Science. These included 1 honorary fellow, 31 emeritus fellows, 15 life fellows, 630 fellows, and 883 associates and student associates. The committee elected 82 associates and 144 student associates during the year ending April 15, 1961. The following committee nominations were approved by the Academy: 1 transfer from fellow to emeritus fellow, 88 transfers from associate to fellow, and 9 elections as follow.

The names of honorary fellows, emeritus fellows, life fellows, and new members of all classes are listed below:

Honorary Fellows

Conard, Henry S. (07G) Lake Hamilton, Florida

Emeritus Fellows

Aitchison, Allison E. (08E) State College, Cedar Falls
 Baker, J. Allen (09C) Simpson College, Indianola
 Bakke, Arthur L. (11G) State University, Ames
 Bartsch, Paul (1895F) Lorton, Virginia
 Boyd, Mark F. (07F) Rockefeller Foundation, Tallahassee, Florida
 Buchanan, R. E. (02G) State University, Ames
 Cable, E. J. (06E) State College, Cedar Falls
 Chittenden, E. W. (20A) Washington, D. C.
 Coss, James A. (19C) Morningside College, Sioux City
 Dodd, L. E. (14B) Port Angeles, Washington
 Doty, H. S. (12EG) Simpson College, Indianola
 Erwin, A. T. (1900G) Des Moines, Washington
 Evans, John E. (22I) State University, Ames
 Gaessler, William G. (16C) State University, Ames
 Gouwens, Cornelius (21A) State University, Ames
 Getchell, R. W. (07C) State College, Cedar Falls
 Graber, M. E. (20AB) Morningside College, Sioux City
 Gwynne, Charles S. (27E) State University, Ames
 Hawk, Grover C. (17F) Hedrick, Iowa
 Jacques, H. E. (16F) Iowa Wesleyan College, Mount Pleasant
 Kenmerer, Mrs. Mabel C. Williams (04I) Claremont, California
 Knight, Harry H. (25F) State University, Ames
 Levine, Max (25G) Territorial Department of Health, Honolulu, Hawaii
 Martin, John (12G) State University, Ames
 Morrison, John W. (07xG) Alta
 Newell, W. S. (16I) Coe College, Cedar Rapids

Patterson, T. L. (20F)	Kerckhoff Marine Laboratory Corona del Mar, California
Plagge, Herbert J. (13B)	State University, Ames
Sherman, L. P. (20C)	Grinnell
Witschi, Emil (30F)	State University, Iowa City
Wylie, C. C. (26A)	Springfield, Missouri

Life Fellows

Barnes, M. E. (32G)	State University, Iowa City
Burton, Mrs. Vernon Devine (46G)	Mankato, Minnesota
Gilman, J. C. (21G)	State University, Ames
Hartzell, Albert (18F)	Boyce Thompson Institute, Yonkers, New York
Jones, David T. (26F)	Bourbonnais, Illinois
Kopf, Kenneth (31G)	San Francisco, California
Kreider, Orlando C. (32A)	State University, Ames
Martin, G. W. (24G)	State University, Iowa City
Miller, Wayne L. (57C)	Burlington
Palmer, Edward C., Jr. (47I)	Sioux City
Pilicer, Abraham (57CF)	Cedar Rapids
Smith, Helen F. (35A)	State University, Ames
Wenberg, Edwin H. (38E)	Caracas, Venezuela
Wilson, L. R. (35EG)	University of Oklahoma, Norman
Yos, David A. (53G)	Burlington

New Fellows

Borgstrom, George, Michigan State University, East Lansing	Hayes, John B., Iowa City
Connelly, John M., State University, Ames	Hichar, Joseph K., Parsons College, Fairfield
Courter, Duane A., Des Moines	Hove, E. Marie, State University, Ames
Floyd, Dale, Eddyville	Swanson, Harold D., Drake University, Des Moines
Fox, Sister Alice Marie, Dubuque	

Transfers from Associate to Fellows

Winifred Asprey	C. Monroe Fairchild	Royall T. Moore
Chester J. Atkinson	Gordon E. Gatherum	Everett F. Morris
Clifford A. Balster	Arthur M. Gowan	Andreas A. Paloumpis
Max Bell	A. L. Haines	Jan S. Paul
Dwight W. Benseid	William H. Hale	George W. Peglar
William L. Brown	A. J. Hammer	O. H. Peterson
Ray J. Bryan	T. E. Hannum	Troy L. Pewe
Wise Burroughs	William I. Harber	Gordon J. Rhum
Carl R. Busch	Henry M. Harrison	Paul F. Romberg
Wilbert P. Byrd	Arnold O. Haugen	Elmer A. Rosauer
Buchanan Cargal	James C. Horton	Sylvan T. Runkel
Dennis L. Carter	Lawson H. Hughes	Wayne H. Scholtes
Milo A. Chehak	Herbert T. Hurley	Augusta Schurrer
Jean Crane	I. B. Johns	Gordon W. Searle
K. A. Christiansen	George E. Kaldenberg	Walter A. Sedelow, Jr.
Kenneth M. Cook	Leonard F. Kellogg	Charles T. Sehe
Arthur W. Davis	K. B. Kerr	Harold G. Sehnert
E. L. Denisen	George E. Knudson	John B. Sheeler
Wayne B. Denny	Kenneth W. Kraus	W. D. Shrader
M. V. Desai	Joseph H. Kutkuhn	James G. Sieh
Charles J. DiCostanzo	Sam Legvold	Frederick G. Smith
Adrian M. Docken	Yu-Ying Fu Li	Guy D. Smith
John R. Doyle	Thomas C. Loomis	Thomas J. Taylor
Russell R. Dutcher	J. P. Mahlstedte	H. C. Trimble
David G. Esker	Dale F. Matzinger	Bernard Vinograde
Otho D. Easterday	Robert M. Melampy	Harland L. Wetzstein
James B. Elder	David E. Metzler	Leonard Winier
Wallace E. Eslyn	Guy H. Miles	Kenneth G. Wood
Robert J. Fabiny	Robert R. Miller	
Robert E. Fager	Wayne L. Miller	

New Associate Members

- Abrahamson, Paul, Charles City
 Ambuel, Louise, Luther College, Decorah
 Anderson, Myron, Washington, D.C.
 Averill, E. W., Fairfield
 Barczewski, John, Eagle Grove
 Bard, Dale E., Des Moines
 Blagen, William S., Estherville
 Boatman, Paul M., Davenport
 Borgman, Robert P., State University, Ames
 Bradley, Wendell G., Fayette
 Brobst, Larry E., Buena Vista College, Storm Lake
 Brown, Arlan K., Mount Ayr
 Campbell, A. L., Iowa City
 Carlander, Mrs. Kenneth, Ames
 Carlson, Carole F., Cornell College, Mount Vernon
 Carlson, Lesley, Jr., Des Moines
 Cawley, Edward T., Loras College, Dubuque
 Chaney, W. D., Battle Creek
 Chang, Mrs. Sonia E., Indianola
 Christensen, Cameron, Rockwell City
 Crawley, Harold B., Fairfield
 Darnell, Lillian H., Drake University, Des Moines
 Day, Charles H., Des Moines
 DePuy, Charles H., State University, Ames
 Dieken, Harold R., Knoxville
 Edelman, Sheldon K., State University, Ames
 Edwards, Frank C., University of Dubuque
 Ericson, Mary Alice, Cedar Rapids
 Flaherty, Coleman A., Ames
 Garbaty, Edward A., Loras College, Dubuque
 Goldie, Mark, College of Osteopathic Medicine, Des Moines
 Guzick, Adam, West Hartford, Conn.
 Hamilton, Colin B., Ames
 Hedges, James A., Washington, D. C.
 Hillman, James H., Orient
 Jensen, James P., Waterloo
 Jensen, Thomas E., Greene
 Jeske, Walter E., Des Moines
 Johns, Dwight L., Des Moines
 Josita, Sister M., R.S.M., Burlington
 Karas, George G., State University, Ames
 Karns, Dean M., Coe College, Cedar Rapids
 Kamprath, Elmer, Eagle Grove
 Kesler, Loren D., Des Moines
 Knoll, David W., University of Dubuque
 Kos, Edward S., Parsons College, Fairfield
 LaPine, Harry John, Cedar Falls
 Lang, Charles E., Loras College, Dubuque
 Leonard, Sister Mary John C., Clarke College, Dubuque
 Logsdon, Sister Mary Gertrude, Mt. St. Clare Academy, Clinton
 McFall, Roy H., Des Moines
 McKusick, Marshall, State University, Iowa City
 Miller, Alva J., Iowa City
 Miller, William G., State University, Ames
 Mustard, Eldie W., Jr., Boone
 Nelson, Dean, Altoona, Wisconsin
 Olson, Guy A., New Hartford
 Ortner, Donald R., Morningside College, Sioux City
 Oxley, Theron D., Jr., Drake University, Des Moines
 Peterson, David T., State University, Ames
 Peterson, Peter A. State University, Ames
 Peterson, Harold S., Mason City
 Peterson, Marvin, Larchwood
 Porod, Robert J. Davenport
 Pritchard, H. Wayne, Des Moines
 Pruett, Emerson W., Amana
 Rea, Clifford, Des Moines
 Reinsmith, Gerald, Davenport
 Rider, Thomas J., Des Moines
 Rife, William C., Fairfield
 Roberts, Eliot S., State University, Ames
 Sendlein, Lyle V. A., State University, Ames
 Shellman, Richard W., Wartburg College, Waverly
 Siccardi, Frank V., St. Paul, Minn.
 Silver, Ina Mae, State College, Cedar Falls
 Smith, Marvin L., Sioux City
 Spriggs, Lacey D., Des Moines
 Strohmeier, Marv L., Iowa City
 Sullivan, Sister Mary Grace, Perry
 Westrom, Kenneth T., LuVerne
 Wilhelm, Harley A., State University, Ames
 Youker, David, Hubbard

New Student Associates

- Richard H. Adamson, George J. Balluff, John Bardule, Harold B. Bates, Jr., Larry Behrens, Mrs. Lorna Chumley Berlin, Charles Arthur Berry, Bruce E. Blank, J. B. Brammer, Eugene Brandy, William R. Brooks, Danny

J. Brown, Lyle E. Brumley, John F. Burger, Ronnie Richard Burns, George D. Byrne, Charles Caillouet, Marshall Calef, Sharon Calloway, Garwin T. Carlson, L. E. Carver, Henry Chang, Jr., Dean Christianson, Judy Coleman, Wayne Criss, Ronald D. Crist, Donald Dahm, Verlon J. Den Adel, Sumana K. Devi, Richard A. Dirks, Gary L. Dixon, Marilyn Driml, Thomas H. Dunham, Phillip Durkee, Lawrence Eilers, Robert W. Fay, Jerald Finnegan, Leon Fox, Robert G. Franke, Kathy Fry, Edward E. Garvin, Keturah Gashwiler, Joseph R. Gillaspay, Virgil L. Goedken, Peter Greiner, Oscar D. Gutierrez, Paul R. Hager, James E. Hall, Jean Hallowell, Steve Harbachuk, Gary L. Hauser.

George Heeman, Robert Eugene Henshaw, Don Hill, James W. Hogan, Karl E. Holte, Richard W. Ikenberry, Mina Ingersoll, Bob Ivins, Ronald E. Jacobson, Keith P. Jacobus, Dennis E. Johnson, Jal Johnson, Florian A. Karels, Sylvester Karis, Richard A. Karsten, Darwin Knochenmus, Ronald K. Koons, Daniel J. Kortenkamp, Richard Leiran, Herbert A. Long, Richard Ray Lucas, Helen L. Lutz, Jerry L. McCaw, Theodore D. McClure, Robert L. McCoy, Ferrell McDade, Gerald O. McGlothlen, Daniel J. McGuire, W. Jack Magruder, Franklin N. Marshall, Marilyn E. Marshall, William H. Meyer, Albert E. Miller, Albin David Mills, Robert Paul Moore, Tullio R. Mordini, William J. Moressi, Alfred H. Mueller, John M. Munson, Richard A. Neal, Richard Niedert, Alan R. Orr, Vernon L. Pals, Carl James Pearson, Stewart Peck, Richard Pemble, Carl Pietrzak, Jerry W. Pike, Harold K. Plett, Barbara Powell, James Lee Prouty, Hugh Randall, Ed Rathmell, Roger Reas, Frank F. Reckendorf, Orville C. Rodenberg, Paul L. Rogers, Robert E. Rogers.

Thomas R. Rogge, Richard L. Sagness, Ruby T. Sakata, Junice Sarsgaard, Edward L. Saulvester, Cletus E. Schneider, Robert Sherman, Dale L. Smith, Gary Lane Smith, Blanquita C. Solis, Paul D. Sorensen, William G. Sorenson, Robert H. Sprague, George T. Stegall, Richard J. Steiner, Paul Steinwand, Robert F. Swanson, Mary Kathryn Taylor, Rosemary Thele, Emil R. Thietje, Loren P. Thompson, Gary W. Tomlinson, Paul A. Van Buren, James Venhuizen, Paul A. Vohs, Jr., Richard W. Wallace, David W. Waller, Donald J. Wells, Dale Whalen, Donald B. White, Ann Wiegand, Mary Wolf, Robert Wruck, Ellis B. Zussman.

The committee reports the passing of the following members (12): H. P. K. Agersborg, Arthur H. Blue, E. S. Haber, George B. Hartman, G. O. Hendrickson, William Kunerth, Walter F. Loehwing, John T. Lonsdale, William F. Lynch, G. B. MacDonald, Janice Rathbun, W. B. Zuker.

R. W. GETCHELL

K. E. GOELLNER

I. J. GWINN

C. F. HANER

O. C. KREIDER

G. CHESTER LEU

PHILIP J. LORENZ

WILLARD J. POPPY

W. A. TEPPERT

MARY M. VINJE

H. L. DEAN, *Chairman*