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The I.A.S. Bulletin, v22n1, January 1988

Iowa Academy of Science

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The I.A.S. BULLETIN

Newsletter of the Iowa Academy of Science

Volume 22 Number 1 January 1988

Paul E. Rider, Editor

A NOTE FROM THE EDITOR

You will note that it has been a while since the IAS Bulletin has been published. This has been due to changes in the Office of the Executive Director and the fact that I have assumed the position of Associate Executive Director with responsibility for the Bulletin. Because of Jim Macmillan's plans to relinquish his position after this year, we have been in the process of shifting other responsibilities which has meant that the Bulletin has not received appropriate attention on my part. This recent lull in publishing will not be typical, as we feel that the Bulletin is a vital organ of the Academy. I ask the membership to bear with me as I become adjusted to the demands of my new job.

PROCEEDINGS AND CHEM ABSTRACTS

The Proceedings of the IAS, while abstracted in several publications, have not been cited in Chem Abstracts recently due to the lack of chemically related articles. Their guidelines call for a minimum of four such articles to appear annually in a publication in order for that publication to be abstracted.

The ad hoc Publications Committee and Gene Wubbels of the Grinnell College Chemistry Department have worked with Chem Abstracts on this matter.

Both Jim Macmillan and I would like to encourage our colleagues in chemistry throughout the state to submit articles to the Proceedings for publication. It is recognized as a quality journal and has a wide distribution to libraries and other outlets beyond Iowa. Your assistance in providing chemical articles will enhance the stature of the Proceedings and allow it to meet the requirements of Chem Abstracts.

AD HOC PUBLICATIONS COMMITTEE DISCHARGED

The IAS Board of Directors voted to discharge the ad hoc Publications Committee at its November meeting. This group which was organized to monitor progress on the Iowa Natural Heritage book has also assisted in other matters including decisions on the Hanson Fund (for publications), the new format for the Proceedings, and concerns associated with Chem Abstracts.

President Lenore Durkee expressed the appreciation of the Board and Academy members for the excellent work of this group which included David Robinson, Judy Shearer, Gene Wubbels, Roger Bachmann, Marilyn Bachmann and Don Norton (chair).

AAAS ANNUAL MEETING

The American Association for the Advancement of Science will hold its annual meeting February 11-15, 1988, in Boston at the Sheraton Boston Hotel and Hynes Convention Center.

The meeting will feature a range of topics including super conductivity, mapping the human genome, directed energy weapons, and treatment of epilepsy. These and other topics will reflect a broad spectrum of interests from science, medicine and technology.

Speakers will include David Baltimore from MIT, Stephen Jay Gould from Harvard, Surgeon General C. Everett Koop, Soviet Academy of Science, Vice President Yevgeny Velikhov, and AAAS President, Sheila Widnall from MIT.

It should be an interesting meeting for those able to attend.

CENTENNIAL MEETING

Plans are fairly well complete for the 100th Annual Meeting of the Iowa Academy of Science to be held April 21-23, 1988 at Iowa State University in Ames. Gary Downs has done an excellent job in coordinating the event as has Jack Horner, who has been in charge of local arrangements.

A variety of topics will be covered during the general sessions, including Global Change, Bioethics, and Public Understanding of Science. You are encouraged to submit abstracts for the section programs as soon as possible.

Plan to attend this meeting as the Academy has planned an outstanding program fitting such an auspicious event. More information will be sent as the time approaches.

REFLECTIONS

During the Academy's annual business meeting last April at Grinnell College, a question was raised concerning the propriety of allowing certain papers to be presented in the Physiology and Physics Sections. Specifically, the papers were being delivered by a contingent from Maharishi International University.

It is useful to describe the process by which papers are selected for presentation at the Annual Meeting. A call for papers is issued in the fall with a mid-January deadline for abstracts. Abstracts are then sent to the appropriate section chair whose responsibility is to examine each one, determining both its merit and suitability for inclusion in that particular section. (Papers can be reassigned, with the author's permission, to another section.) The section chair has only the abstract upon which to base his/her decision; however, since abstracts, by definition, are concise summaries of research done and conclusions reached, one must take them at face value - that is, that they accurately reflect the nature of the information to be conveyed by the presenter.

The position of the Academy is clear. Legitimate research effort, insofar as it can be determined from the information provided in the abstract, cannot be censored. However, when a paper presented at a section meeting appears to violate good scientific precepts, it is important for members of the audience to offer countering arguments.

The section meeting provides a forum in which the real spirit and excitement of science is manifested. The inter-play of ideas, the insightful observations, and the direct challenges, all serve to hone one's thinking on a subject and possibly suggest a fresh new approach to a problem. The great strength and productivity of the scientific disciplines arise both from the desire and the expectation of every scientist that his/her ideas will be rigorously criticized by peers and from the willingness, indeed the RESPONSIBILITY, of those peers to provide that criticism. To do less subverts the single, most important attribute of scientific endeavor - so aptly described by Donald Huffman - namely, that it is "self-correcting". We must constantly remind ourselves of the important role we play in fostering this quality as we judge our work and that of others.

Lenore Durkee, President

NATURAL RESOURCES WORKSHOP FOR WOMEN

A workshop for women in non-traditional positions in the natural resources profession and women pursuing environmental careers was held December 1 and 2, 1987, at the Springbrook Conservation Education Center near Guthrie, Iowa.

The purpose of the workshop was to celebrate the achievements of Iowa women in the natural resources profession, enhance interaction between women in the profession in the region, and illuminate career choices available to women in the profession.

Future workshops may involve both men and women in this important area.

LASER LABORATORY

Plans for the Center for Laser Science and Engineering at the University of Iowa are proceeding after receiving approval from the State Legislature last May.

This \$25.1 million facility will be built over the next two years with ground breaking taking place sometime this coming spring. The university will expand its efforts in education and research in this vital area of technology which will have a significant impact internationally in the coming decades.

Research will focus on optoelectronic microdevice development, microanalysis and microfabrication. Basic and applied research in several areas of physics and chemistry will be carried out by existing faculty as well as world-class laser researchers holding endowed professorships.

Multi-disciplinary programs will be developed as well as technological out-reach programs for industrial, university and governmental laboratories.

AMES LABORATORY RECOGNIZED

The American Nuclear Society recently designated the Ames Laboratory of Iowa State University as a historic landmark for its contributions to the Manhattan Project during World War II. The lab supplied the largest single portion of reactor grade uranium fuel for the first sustained chain reaction under Chicago's Stagg Football Stadium on December 2, 1942.

The lab continues today as an integral part of the U. S. Department of Energy's research efforts and has been recognized as a leading center for rare-earth research throughout the world for four decades.

The lab was recently selected by the DOE, along with the Brookhaven and Argonne laboratories, as an integral part of the nation's Superconductivity Initiative. In addition, it was named as the Center for Basic Scientific Information to act as clearing house for information on superconductivity.

SOIL AND WATER CONSERVATION SOCIETY

The Soil Conservation Society of America recently voted to change its name to the Soil and Water Conservation Society. This 41 year-old organization has 13,000 members worldwide and operates on a non-profit basis to educate society on the wise use of land and water resources.

Its international headquarters are located near Ankeny, Iowa. The SWCS recently held its annual meeting in Billings, Montana and President Maurice Cook announced the appointment of Alan C. Epps of the University of Alaska as the new top executive administrator of the organization. Epps is an expert on land and natural resource usage.

He and his wife recently moved to Ankeny as he assumed his new duties.

SECTION REORGANIZATION

On November 2, I sent a letter to the Board of Directors and I would like to share a portion of it with you:

To: The Board of Directors
RE: Section reorganization

As you know, I have long felt that the present section structure of the Academy does not adequately reflect current trends in science. Nowhere is there a home for the disciplines of cell and molecular biology, genetics, and ecology, for example, and no place for the growing field of Computer Science.

Thus we see a paper entitled "Analysis of the ras-rho oncogene family" juxtaposed with "Circadian rhythm of prolactin sensitivity..." in the Physiology Section and "Biogeographic implications of refugial communities in eastern Iowa" followed by "Measurement of protein solubilized from non-green plant tissues with urea and NP-40 for 2-D PAGE" in the Botany Section. Admittedly, there are always some papers that cannot be precisely categorized, but I feel that the existing organization of sections tends to compound the problem.

An argument can be made that the new Biotechnology Section is adequate for many of the needs I have expressed above. However, I envision the Biotechnology Section to be most suitable for papers relating to the practical application of techniques of cell biology and molecular genetics to commercially important products or, to a consideration of what has been defined as the "use of living organisms and their components to do practical tasks". I would include the various problems attendant thereto in the areas of law, economics, sociology, etc. Accordingly, a scientist wishing to present his/her work on, say, "Membrane filters for growth and scanning electron microscopy of Tetrahymena" would find Biotechnology most inappropriate, as would the author of the paper on "Characterization of a growth-inhibitory factor isolated from plasma membranes of malignant mouse epithelial cells". I see this separation in terms of basic science vs. applied science.

Practically, what the current section structure typically produces is a great deal of running around from one room to another in an effort to catch the cell biology papers, for example, that may be presented in Ag. Science, Botany, Biotechnology, Chemistry, and Physiology, while the ecologist discovers papers in at least three sections - Botany, Conservation, and Zoology. The long-range effect is 1) considerable confusion as to what section one should use as a forum for one's research or to learn of another's research in the same area and 2) possible reluctance to join the Academy because of the lack of a suitable section. I have no way of determining the legitimacy of this last claim. However, the Academy should always endeavor to recognize substantial changes in the scientific disciplines by corresponding judicious changes in its section organization. We cannot afford to be inflexible.

I would like to hear opinions from the membership on the points addressed in this letter. A proposed section re-organization plan is given below.

Lenore Durkee, President

Present section organization:

Agricultural Sciences	Elementary Science Teaching	Chemistry D
Anthropology	Engineering	Physics
Biotechnology	Geology	Physiology
Botany	Chemistry C	Psychology
Chemical Education	Linguistics	Science Teaching
Conservation	Nursing	Zoology
Earth Science Teaching		

Proposed reorganization:

Agricultural Sciences	Earth Science Teaching
Anthropology/Archaeology	Elementary Science Teaching
Biotechnology	Geology/Geography
Botany	Linguistics
Chemical Education	Nursing
Chemistry C (Inorg, Anal, Phys)	Physics
Chemistry D (Organic, Biol)	Physiology
Cell Biology/Genetics	Psychology
Conservation/Ecology	Science Teaching
Computer Science	Zoology
Engineering	

IOWA ACADEMY OF SCIENCE
NOMINATION FOR PROMOTION TO FELLOW

Instructions: This form may be completed by the nominee but must be signed by a nominator and a seconder, both of whom must be Members or Fellows of the Academy in good standing. Nominee must have been a Member of the Academy for three years or more. RETURN THIS FORM TO:

The Membership Committee
c/o James Macmillan, Executive Director
Iowa Academy of Science
P. O. Box 868
Cedar Falls, IA 50613

Date: _____

I hereby nominate the following Academy member for promotion to Fellow:

Name: _____
(Please print clearly) first middle last

A. Academy participation:

1. Membership directory code:
2. Number of meetings attended during last ten years:
3. Presentation of paper(s) at Academy meeting(s):

<u>Author</u>	<u>Year</u>	<u>Title</u>	<u>Section</u>
---------------	-------------	--------------	----------------
4. Service to the Academy (i.e., member of committee, section chair, other):
5. Publication in Proceedings of the IAS:

<u>Author</u>	<u>Year</u>	<u>Vol.</u>	<u>Page(s)</u>	<u>Title</u>
---------------	-------------	-------------	----------------	--------------

B. Other Publications (use complete citations or append vita):

C. Other professional activities and/or honors:

Nominator: _____ Signature: _____
(Print name)
Comments:

Secunder: _____ Signature: _____
(Print name)
Comments:

(For office use only) Approved by Membership Committee (date): _____
Signature of Chair: _____
Approved by Board of Directors (date): _____
Signature of Exec. Dir.: _____
Certificate sent (date): _____

Deadline: September 30

THE LONG RANGE PLANNING COMMITTEE ASKS FOR YOUR IDEAS

After a few years without a charge, the Long Range Planning Committee was recently reactivated by an Iowa Academy of Science Board of Directors charge conveyed by President Lenore Durkee to the new chair, Don Huffman. The charge asked the Long Range Planning Committee (LRPC) to consider the Iowa Academy of Science (IAS) in the year 2000 A.D. in terms of (1) membership numbers, (2) what kinds of scientists will be working in Iowa then and how the IAS can meet their needs, (3) what kinds of changes, if any, should be made in the IAS sections and administration, and (4) whether the IAS should strive for complete financial independence or to continue looking to the State of Iowa for specific programs support, such as the current funding for the Iowa Science Foundation grants to Iowa scientists for Iowa related researches.

The LRPC at their first meeting on November 14th examined the present status of the Academy and reviewed past history. The substantial growth and new sections in recent years indicate the need to plan for the future of the Academy. The LRPC agreed that the membership should be surveyed to get the best guidance possible. Therefore, the questionnaire you receive from the Academy is our plea for your thoughtful answers to the questions, along with your recommendations and your concerns.

The lusty growth of the Academy in recent years has brought our membership to near 1800 members - a healthy 20% increase from 1500 in 1985 and nearly a 30% increase from the 1400 membership in 1981. The sections now total 19. Under the direction of the Executive Directors Hanson and Macmillan the Academy has been well managed. The Academy is strongly motivated and the Committees, Section chairs, editors, program directors and membership have all been instrumental in making this a strong Academy; in fact it is the third largest in the National Association of Academies of Science.

The LRPC, composed of members Don Huffman, Chair, Julio Chiarella, Wanda Wehner, Richard Wacha, Gerald Flesch, Lynn Glass, George Knaphus, Frank Starr, and James Macmillan (ex-officio), solicit your serious considerations to help us ready the Iowa Academy of Science for the 21st Century.

Paul Waite, Past President and LRPC Liaison

IAS PLANNING QUESTIONNAIRE

The Board of Directors and the Long Range Planning Committee of the Iowa Academy of Science have discussed ways by which the IAS could more fully anticipate and meet the needs of Iowa's scientists as we look to the year 2000. We need input from each of you who is an officer, section chair, or committee chair and would appreciate your response to each of the questions as well as comments on any items included.

For the questions asked, please respond by writing letters in the blanks provided for each question as follows: S= Strongly Agree; A= Agree; D= Disagree; SD= Strongly Disagree

1. IAS should increase its membership to 2000 by the year 2000 (it is currently 1700+).
Comments:

2. IAS should attempt to attract more scientist-members from industry and professions such as medicine, dentistry, etc.
Comments:

3. IAS should include a Computer Science Section.
Comments:

4. IAS should adopt a scaled membership fee based on membership category. (Members pay one rate; Fellows pay a higher rate). Would you support a general increase in any case?
Comments:

5. IAS should have a full-time Executive Director.
Comments:

6. IAS should upgrade the Administrative Secretary's position (Doris Mitchell's position) and keep the Executive Director's position at its present level.
Comments:

- __7. IAS should look outside of the UNI/Cedar Falls group to meet its needs for administration of the IAS office.
Comments:
- __8. IAS should make a major effort to become financially independent.
Comments:
- __9. IAS should keep close ties with the State of Iowa as part of its continuing financial structure.
Comments:
- __10. Because of the importance of funding for all of the major IAS programs and administration IAS should have a person whose primary responsibility is that of fund raising.
Comments:
- __11. IAS needs to restructure its sections and committees to more fully reflect the changing nature of scientific effort and interests of scientists of Iowa.
Comments:
- __12. IAS committee liaisons should assume greater responsibility for representing the Board of Directors, and relaying information to and from the committees and the board.
Comments:

ANY OTHER COMMENTS YOU MAY HAVE:

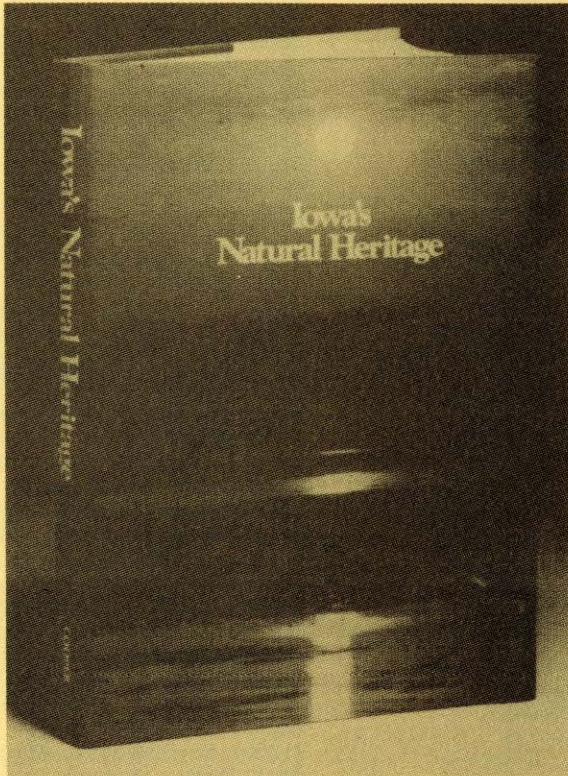
Fold

stamp



Iowa Academy of Science
P. O. Box 868
Cedar Falls, IA 50613

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Application for Membership/IOWA ACADEMY OF SCIENCE

(Please print or typewrite)

Date _____

Full Name (Dr., Miss, etc.) _____
(Place in parentheses parts of name omitted in correspondence.)

Address for mailings _____

(Post Office) (State) (Zip)

Birth year _____

Institution, or Company _____

Professional Address _____

Please check your area(s) of work:

- research administration teaching student
 non-science; interested in Academy objectives

Your Signature _____

Amount of dues enclosed: \$ _____ Dues: Professional, \$20.00; Student \$10.00

Mail to: Iowa Academy of Science, P.O. Box 868, Cedar Falls, IA 50613

The sections of the Academy are:
 (Select no more than 3)

- U — Agricultural Sciences
- H — Anthropology
- K — Biotechnology
- G — Botany
- S — Chemical Education
- J — Conservation
- Qg — Earth Science Teaching
- Qe — Elementary Science Teaching
- M — Engineering
- E — Geology
- C — Inorganic, Physical and Analytical Chemistry
- R — Linguistics
- N — Nursing
- D — Organic & Biological Chemistry
- B — Physics
- O — Physiology
- I — Psychology
- Q — Science Teaching or Science Educ.
- F — Zoology

MEMBERSHIP FACTS

Membership Count:

Members	1323
Fellows	264
Students	146
Distinguished Fellows	21
Life Members/Fellows	47
Emeritus	93
Corporate Sponsors	5
TOTAL (Dec. 31)	1899

Deceased:

Henry Dickinson
Larry Kelsey

No Current Address:

Ingrid Burgeson
Roger Hodapp
Steve Pauly
Francis Pray
Robert Ratterman
Pierre-Marie Robitaille
Emmanuel Skoufos

Transfer to Emeritus:

Homer O. Clark
Rev. William C. Kunsch

New members since last newsletter:

Charlene Albertson, Miles
Jim Alderson, Mt. Pleasant
Bill Allan, Oelwein
Diane Allen, Iowa City
Phyllis Anderson, Keokuk
Charles E. Ashland, Britt
Beverly Bailey, Nashua
Paul E. Bartelt, Forest City
Steve Bartlett, Marion
Larry Beall, Monticello
Janet Beaman, West Des Moines
Roger Beane, Oelwein
Tom Beckman, Des Moines
Gary Benesh, Cedar Rapids
Georgia Bennett, New Hartford
Michael L. Bennett, New Hartford
Steve Benson, Des Moines
Bruce Bergland, Floyd
William Billeck, Columbia
Vicki Blackledge, Marion
Karen Bleeker, Sheldon
Helen Boertje, Pella
Patsy Booth, Fairfield
Patsy Booth, Fairfield
Jim Bossom, Postville
Dorothy Brecheisen, Hudson
Ken Brekke, Cedar Rapids
Laura Brenner, Adel
Mark A. Brockmeyer, Coralville
Steve Budelier, Iowa City
Michael Bunde, Denison
Julie Burkey, Fredericksburg
L. Blanchard Byrne, Clear Lake
Colin J. Cairns, Des Moines
Sandi Campie, Clinton
Clair Carolan, Fort Atkinson
Lester Carter, Pella
Ted Cizadlo, Iowa City
Jerome Clark, Durant

Marilyn M. Clauss, Des Moines
Mary Conner, Waverly
Walt Conrad, Glenwood
Kim K. Cross, Cedar Falls
Virginia Cruz, Dubuque
Jay Cutler, Charles City
Marilyn Dansart, Dubuque
Veronica J. Dark, Ames
Peggy L. Davis, Davenport
Joe DeHart, Coralville
Michael C. Dillbeck, Fairfield
Harold Dinsmore, Farragut
Andrea Doubet, Grundy Center
David Douson, Iowa City
Ruth Dykstra, Bussey
Katie Ebinger, Cedar Rapids
Margaret Egli, Dubuque
Rosalie Eimers, Slater
Mary Sue Ellinger, Waverly
Ken Enke, Mediapolis
Ann Erbland, Gladstone
Harvey Estebo, Lansing
Jerry Fagle, Wheatland
Julie Fee, Cedar falls
Gene Ficken, Independence
Nancy Fitzpatrick, Lynnville
Donna Marie Flemming, Dubuque
Gretchen Flynn, Davenport
Jan Renee Flynn, Iowa City
Marabeth Freund, Dubuque
Marvin L. Gardner, Iowa City
Gail Gerber, Vinton
Jan Gilroy, Cedar Falls
Tom Gingerich, Kalona
Bob Glenn, Glenwood
Sue Goodenow, Iowa City

Frank B. Gorshe, Davenport
Denise A. Gottsch, Dubuque
Kathy Gray, Des Moines
William Green, Iowa City
Joel Griner, Belmont
Dolores Gruber, Council Bluffs
Kathy Grubisich, Davenport
Chris Gude, Washta
Deb Haffner, Newton
John Hamel, Tipton
Rebecca Hanna, Protivin
Linda Hansen, Cedar Falls
Randy Hansen, Des Moines
Chon Hanson, Northwood
Glendena Helman, Eldridge
Susan Hein, Adel
Alice Heitland, Thornton
Catherine L. Hejda, Cedar Rapid
Jane Henely, Spencer
Douglas C. Herman, Sioux City
Mic Herrity, Cedar Rapids
Jerry Hilton, DeSoto
Sally D. Hinz, Long Grove
Deb Hoffman, Dubuque
Janice J. Hoffman, Waterloo
John Hoffman, Iowa City
Suzanne Hollenbeck, Hudson
Kathy Hoover, Waterloo
Cheryl Hotz, Fredericksburg
Daryl Howell, Indianola
Mae Howes, Cedar Rapids
Kay Hoyt, Eldridge
Linda Hughes, Charles City
Robert Jackson, Anita
Phyllis Johnson, West Des Moines
Shirley Kellogg, Guttenberg
Susan Kersenbrock, Cedar Rapids
Jim Kersten, Keokuk
James L. Kies, Cresco
Marcia Kivi, Montezuma
Barb Klein, Dyersville
Diane Kleinweber, Burt
Nancy Knowles, Cedar Rapids

Ron Kohn, Glenwood
Anne M. Kramer, Cedar Rapids
Joe R. Kramer, Cedar Falls
Karen Kresl, Sioux City
Kenton Krusor, Winthrop
Brenda Kutz, Ames
Chris Larsen, Lisbon
Erica D. Larson, Tipton
Karl Laufer, Nashua
Mark Levin, Oelwein
Judy Levings, Ames
Joseph Lindquist, Coralville
Patricia A. Loughhead, Rock Valley
Rebecca Maffett, Ankeny
Jean Maher, DeWitt
Judith Mallory, Alburnett
Elwyn Maloy, Marion
Irene Martin, Grundy Center
Joan Mason, Newton
Dale H. Masters, Waterloo
Donna McClure, Dallas Center
Bonnie L. McCrady, Des Moines
Helen McDonald, Cedar Rapids
Keith McGinnis, Glenwood
Joan McKim, Monticello
Caren McNaught, Afton
Kim Meerdink, Tiptonka
Naomi Mefford, Ottumwa
James L. Merritt, Keokuk
Billie D. Mims, Cedar Rapids
Eldo Moeller, Independence
Dawn Mohrfeld, Fort Madison
Susan Morgan, Council Bluffs
Katie Mulholland, Dubuque
Sara J. Murphy, Iowa City
Donna L. Mustaine, Iowa City
Collin Myers, Osage
Doug Nauman, Cedar Rapids
Gregory C. Nelson, Ames
Glenn Norton, Ames
Mary L. Norton, New Hartford
Pam Novy, Marion
Bonita O'Brien, Rowley
Trudi O'Brien, Newhall
Christopher J. O'Connell, Epworth
Andrew Ohst, Iowa City
Arthur E. Oldhoeft, Ames
Paul Olson, Burt
Mike Patrick, Washington
Beth E. Peterson, Iowa City
Francis C. Peterson, Ames
Frank Peterson, Cedar Rapids
Rick Platte, Shellsburg
Jodie Reagan, Urbandale
Ray Reasland, New Hampton
Mary Ann Renk, Cedar Rapids
Barb Rhame, Iowa City
Gene Richter, Wapello
Steven Richter, Davenport
Gary Rieck, Cedar Rapids
Joe Riesselman, Dubuque
Gary Rippentrop, DeWitt
Clarence J. Rittgers, Johnston
Teri Rokusek, Waterloo
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Zelda Sackett, Center Point
Kathy Sacre, Cedar Falls
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Ed Saehler, Iowa City
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John Schmidt, Cedar Rapids
Linda Schmidt, Muscatine
Terry Wayne Schoer, Sigourney
Kathy A. Schutte, Jesup
Rachel Serianz, Davenport
Kevin J. Seward, Ames

Richard L. Snarar, Knoxville
 Mary Kay Sisler, Dubuque
 Gary Sitter, Spencer
 Richard A. Sloan, Hiawatha
 Jim Spevak, Iowa City
 W. Scott Stauffer, Ottumwa
 Robert Stessman, North Liberty
 Larry Stott, Waukon
 Charles Strandberg, Osage
 Allen Stuart, Essex
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 Ed Trullinger, Independence
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 Simat Whipp, Clarinda
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 Barry Whitson, Norway
 George D. Whitworth, Spencer
 Catharine Wieck, Dysart
 Cathy Wilson, Iowa City
 Kathleen Woida, Oxford
 Mary E. Wood, Cedar Falls
 Audrey A. Wright, Waterloo
 Rosalind Young, Oelwein
 Steven Ziegenfuss, Dubuque
 Janice L. Zietlow, Des Moines

100th Annual Meeting The Iowa Academy of Science April 21-23, 1988

Hosted by

Iowa State University

SECTION MEMBERSHIP

January 1, 1988

Agricultural Sciences	137
Anthropology	45
Biotechnology	37
Botany	290
Chemical Education	114
Conservation	252
Earth Science Teaching	13
Elementary Science Teaching	222
Engineering	68
Geology	179
Chemistry C (Inorg, Anal, Phys)	177
Chemistry D (Org & Biol)	131
Linguistics	15
Nursing	34
Physics	145
Physiology	128
Psychology	46
Science Teaching	755
Zoology	241

25 YEAR MEMBERS

Wayne I. Anderson	1963
Benton W. Buttrey	1963
E. David Cater	1963
L. H. Durkee	1963
Lenore T. Durkee	1963
Luther E. Erickson	1963
Everett E. Gerrish	1963
Arnel R. Hallauer	1963
Earl G. Hammond	1963
David C. Hampton	1963
David Hodgkin	1963
George Knaphus	1963
Donald Leroy Koch	1963
Donald Murphy	1963
Phillip J. Reitan	1963
C. Clinton Rila	1963
May Alice Smith	1963
Andrew Stevenson	1963
Claflin J. VonYeast	1963
Robert Wilson	1963

50 YEAR MEMBERS

M. Edward Pottebaum	1938
Sylvan T. Runkel	1938
Edwin H. Wenberg	1938

The I.A.S. BULLETIN
Newsletter of the Iowa Academy of Science

University of Northern Iowa

Cedar Falls, Iowa 50613

SPOTLIGHT ON AN IAS MEMBER

Kathryn L. Vigen, professor of Nursing and head of the Department of Nursing at Luther College, recently completed her doctoral degree in higher education administration at the University of Minnesota. A graduate of St. Olaf, South Dakota State University, and Rush University (Chicago), she is president of the Iowa Association of Colleges of Nursing and was recently commended by Senator Tom Harkin for her work on his statewide nurses advisory committee. Congratulations to one of our outstanding Academy members.

"NATURE SERIES ON IOWA PUBLIC TELEVISION

The Academy office continues to receive favorable feedback concerning IAS sponsorship of the program "Nature" which is shown on Iowa Public Television.

This series brings the beauty of the natural world into living rooms weekly and serves to remind Iowans of the precious balance that exists between all creatures on our planet.

As a member and supporter of the Academy, you share in the credit for this sponsorship and the positive effect that the program continues to generate.