



NEWSLETTER

American Association of Stratigraphic Palynologists, Inc.

VOLUME 12

MARCH, 1979

NUMBER 2

Vaughn M. Bryant, Jr.
Editor

Texas A&M University
College Station, TX 77843

Ray Christopher
Assistant Editor

DUNFEY'S INN

TWELFTH ANNUAL AASP MEETING

DALLAS, TEXAS

OCTOBER 29 - NOVEMBER 3, 1979

* * * * *

NOTICE - ADDRESS LABEL

If your address label has a red mark on it you have not paid your 1979 annual dues. Please send payment as soon as possible to insure that you continue receiving the Newsletter and future copies of Palynology.

* * * * *

NOTICE OF MID-YEAR MEETING, AASP BOARD OF DIRECTORS

The mid-year meeting will be held Thursday-Friday, April 26-27, 1979, in the Royal Coach Inn, 7000 Southwest Freeway, Houston, Texas. The meeting is open to all members. Make reservations (telephone is 713-771-1311) early if you plan to attend.

Official Board business will begin Thursday, April 26 at 8 a.m. The following represents a tentative agenda:

1. Approval of Board of Director's Meeting minutes, Phoenix, Arizona
2. Secretary's Membership Report
3. Treasurer's Report
4. Editor's Report
5. Annual Meeting Discussion
 - a. 1979 Dallas, Texas
 - b. 1980 Denver, Colorado
 - c. 1981 New Orleans, Louisiana
 - d. Future Meeting site proposals
6. Old Business
 - a. AASP Foundation Report
 - b. Nomination Committee's Report
 - c. Career Planning Brochure for Palynologists
 - d. ICP
 - e. advance payment of annual dues
7. New Business

* * * * *

AASP LOGO STICKERS

For the 11th annual meeting, Jim Conright had prepared a number of self-adhesive AASP logo stickers for sale. A few still remain for you who missed the meetings. The logo stickers are 3-1/2 inches (9cm) in diameter, are tricolored and made of plastic. The adhesive is excellent and the logos stick easily to wood, paper, glass, and other type surfaces. At the annual meeting, I noticed that members were putting the logos on briefcases, notepads, ring binder notebooks, suitcases and on car windows. The stickers can be obtained by sending \$1.00 for each 2 logos you desire to the Secretary-Treasurer, John A. Clendenen, Box 3092, Houston, Texas 77001. \$1.00 bills will be accepted if you do not want to write a check and if you trust the mails with your cash!

* * * * *

PALEOBOTANICAL SYMPOSIUM

A symposium on the theme "Landmark events in the evolution of plants" will be held at Carleton University, Ottawa, Canada on Thursday, June 21, 1979. The symposium, co-sponsored by the Canadian Botanical Association (CBA) and the Canadian Association of Palynologists (CAP), will be part of the program of the fourteenth annual meeting of the CBA.

Early evolution of land plants, origin and evolution of conifers, and early evolution of phytoplankton, will be among the topics to be presented. Further information may be obtained from: D.C. McGregor, Geological Survey of Canada, Ottawa, Ontario, K1A 0E8 (phone 613-995-4680).

* * * * *

ANNOUNCEMENT

The 12th Annual Meeting of the American Association of Stratigraphic Palynologists will be held in Dallas, Texas, at Dunfey's Inn, October 29 through November 3, 1979.

October 29-30 Fluorescence Microscopy Workshop(s)

Workshop(s) outlining fluorescence microscopy for kerogen identification and maturation will be conducted by Dr. Pieter Van Gyzel of Core Laboratories, Inc. There will be limited registration.

October 31 Symposium: Kerogen-Visual and Chemical Relationships

The symposium will be chaired by Dr. Frank Staplin of Imperial Oil of Canada. The papers are by invitation and are designed to bring the novice and expert up to date on maceral identification, dissemination, relationship to migration and hydrocarbon generation. Emphasis will be placed on utilizing these techniques as exploration tools. Pitfalls will also be considered and discussed. The symposium will be followed by an open forum and panel discussion.

November 1-2 Technical Sessions

Invited and contributed papers on all aspects of palynology. The theme of the sessions will be "Future Challenges and Innovations." We feel we should consider future applications to ensure the continued progress and timely effectiveness of palynology. A poster session will be held during the meeting to accommodate subject matter that one finds interesting and wishes to discuss with attendees.

November 3 Field Trip

A field trip, led by Dr. Wann Langston, Jr. of the University of Texas at Austin and Dr. Bob F. Perkins of the University of Texas at Arlington will feature the dinosaur tracks in the Early Cretaceous Glen Rose Formation, the invertebrate fossils of the Comanche Peak Limestone, and reefs of the Edwards Limestone.

Please fill out the questionnaire attached to the front of this Newsletter and return it as soon as possible to the AASP Program Committee in Dallas.

* * * * *

ATTENTION PALEOBOTANISTS

A unique opportunity has been offered our section (Paleobotanical Section of BSA) and provides a mechanism for the publication of monographic or large scale research articles in paleobotany.

Praeger Publishers, a division of Holt, Rinehart and Winston, CBS Publishing Group, wish to start a series entitled "New Studies of Fossil Plants." The series would require a minimum of one such publication a year. Individual contributions could be as brief as 90 pages (printed), which would be issued in hardback or softback. Royalties (6.5% of net receipts on U.S. sales to 1,000 copies) would be paid the authors of these publications and \$500 would be issued to defray photographic and illustration costs; there are no page charges to the author(s). The size of each publication would be 6 X 9.

The series provides almost complete autonomy for the author(s), provided that the publishers and reviewers agree on the significance of the subject matter. Praeger would send details on promotion, distribution, royalties, and a sample contract to each prospective author or authors.

There is a firm philosophical and financial commitment from the Publishers to produce a distinguished series in Paleobotany. Our section would, therefore, provide the fertile scientific community from which topics and authors would be selected.

I should like to strongly encourage those of you with active research projects to consider this offer and to take advantage of an apparent "golden opportunity". The publication of individual topics provides a series of monographs that could be purchased individually, thus avoiding the negative aspects of symposium texts whose breadth in topics and specificity of individual articles makes them inapplicable as teaching materials.

Please contact me directly as to your interests, questions, or suggested topics and authors. I will in the next few months confer with publishers on a prospective list of contributors. My obligation to our section is a happy one, and with your help we can together produce a scientifically valuable series of papers.

Karl J. Niklas
Division of Biological
Sciences
Cornell University
Ithaca, New York 14853

* * * * *

CANADIAN ASSOCIATION OF PALYNOLOGISTS

Some AASP members have requested more information about CAP. Therefore, I offer the following additional information provided by J.P. Bujak of CAP.

The Canadian Association of Palynologists was founded in summer, 1978, and guided by a steering committee until the first executive was elected in December, 1978. The executive consists of the President, Colin McGregor; President Elect, Dave Jarzen; Secretary-Treasurer, Pierre Richard; and Newsletter Editor, Jonathan Bujak. It has a term of one year.

The first executive met in Dartmouth, Nova Scotia on January 8, 1979, and a constitution was drawn up. The second executive meeting will be on June 21, 1979 in Ottawa, coincident with the Paleobotanical Symposium on "Landmark events in the evolution of plants" at Carleton University, co-sponsored by the Canadian Botanical Association and the Canadian Association of Palynologists.

A newsletter is circulated in the summer and winter of each year. Contents include details of palynological research in progress in Canada, post-graduate theses, papers in preparation or press, recent meetings, palynological talks given, details of other palynological societies, book reviews and a calendar of forthcoming palynological events.

The Canadian Association of Palynologists is presently seeking affiliation with the International Commission for Palynology.

* * * * *

As Editor of AASP I wish to apologize to the members of CIMP who attended the joint AASP-CIMP meeting in Halifax, Nova Scotia in October, 1976. In volume 2 of Palynology I included all abstracts (both those of AASP and CIMP) of papers that were presented. However, when checking the final galley proofs I failed to notice that no credit or mention was made of CIMP's participation at the joint meeting. I apologize for this unfortunate oversight on my part and assure you it was an unintentional error.

Volume 2 of Palynology was my experience at putting together a work of that type. Please be patient of my oversights. After all, breaking in a new editor has been a traumatic experience for both of us.

* * * * *

POLLEN DEGRADATION STUDY

Richard G. Holloway has written to say that he is conducting an intensive study of how and why pollen and spores are sometimes destroyed in various types of sediments. He would greatly appreciate any reprints and/or other information from AASP members who are interested in this subject. Helpful suggestions on test procedures would also be appreciated.

Please address your responses to: Richard G. Holloway, Dept. of Anthropology, Texas A&M University, College Station, Texas, USA, 77843.

* * * * *

EOCENE POLLEN OF ARGENTINA

Dr. Romero has informed me that a new publication entitled: "Pollen Studies of Gymnosperms and Fagaceae from the Rio Turbio Formation (Eocene), Santa Cruz, Argentina: is now available for distribution. Individuals wishing to obtain a copy should write to: Centro de Investigaciones en Recursos Geologicos, F.R. Velasco 847, 1414 Buenos Aires, Argentina.

I do not know the cost (if any) of this publication since no mention was made as to price.

* * * * *

1980 INTERNATIONAL GEOLOGICAL CONGRESS

During the International Geological Congress (which will take place in Paris in 1980, it might be possible to have a special symposium "Palynostratigraphy".

This meeting would be an "intersection symposium" depending on both sections: S. 04 Stratigraphy and S. 03 Paleontology, Micropaleontology and classified in a special section S. 03. 04. Palynostratigraphy. J.J. CHATEAUNEUF would be the convenor of this Symposium.

I do not think that it is necessary to insist on the advantages for our palynological community of organizing such a special Symposium.

It is necessary for CHATEAUNEUF to know, as soon as possible, the intentions of attending the Symposium and if you agree, you could publish an item in your next AASP newsletter. Of course, this special intersection symposium would be maintained only if the number of participants is sufficient.

C. CARATINI

* * * * *

BOOK REVIEWER NEEDED

AASP has received a new book from the University of Toronto Press entitled "Geological Background to Fossil Man: Recent Research in the Gregory Rift Valley, East Africa". The book is nicely illustrated, has ample color fold outs and presents the latest geological information on East Africa. The book's cost is \$60.00.

Any AASP member who feels qualified to review this book and could complete a review within 90 days (after receiving the book) should contact me directly. As a reward for this service, they will receive a free copy of the book and may keep it for their library.

* * * * *

LETTERS TO THE EDITOR

Dear Editor:

I favor inclusion of AASP proceedings abstracts in PALYNOLOGY.

Since publication of the abstracts increases the importance of the annual meetings, encourages attention to preparation of the meeting presentation and abstract, and may influence the design of the research project, publication can have a significant influence on the quality of the meetings and The American Association of Stratigraphic Palynologists.

Joanne and John Rowley

Dear Editor:

In your A.A.S.P. Newsletter, volume II, September 1978, no. 4, Proceeding Abstracts, I see a note about the abstracts published by the A.A.S.P.

I think that it is a very good idea to publish the abstracts as part of the December issue each year rather than placing it in Palynology.

F.H. Cramer

Comment: Thank you for your opinions about publication of our meeting abstracts in Palynology. We shall take your comments into consideration before making any changes from current policy.

ARGENTINA PALYNOLOGY

The University of Arizona Press has just published a new book entitled, Pollen Flora of Argentina: Modern Pollen and Spore Types of Pteridophyta, Gymnospermae and Angiospermae by V. Markgray and H. D'Antonio. The book costs \$9.50. Included in this book are photomicrographs, morphologic descriptions and a key to 374 pollen and spore types. Address your request for copies to: University of Arizona Press; P.O.Box 3398; Tucson, Arizona, 85722.

* * * * *

BOOK REVIEW

The following book review appeared in the CAP newsletter vol 1, No. 2. It is reprinted here for those AASP members who may be interested in these books but did not see the reviews in the CAP Newsletter. We wish to thank CAP for the use of this review.

BENCHMARK PAPERS IN GEOLOGY

Vol. 46. Palynology Part I. Spores and Pollen. Cost \$24.50 U.S.

Vol. 47. Palynology Part II. Dinoflagellates, Acritarchs and other Microfossils. Cost \$24.50. Set price vols. 1 & 2, \$42.50 U.S.

Editors M.D. Muir and W.A.S. Sarjeant.

One of the more obvious benefits of reviewing a book is the free copy presented by the publisher. Whether this affects the nature of the review, is presumable determined by the writer's conscience. In this particular instance the constraints were applied by the G.S.C. library who were continually demanding that I return the two Benchmark Papers (vols. 46 and 47), because of the demand from other palynologists. Thus a laboured assessment became a hurried appraisal.

The Benchmark Papers in Geology include only papers of some significance or importance in the particular field of study. The two volumes, Palynology Part I, Spores and Pollen and Part II, Dinoflagellates, Acritarchs and Other Microfossils, therefore include the major papers of the last three decades. The single exception predating this period is Schopf, Wilson and Bentall (1944). The two editors presumably selected the papers for inclusion in both volumes and determined the composition and format for each section (part) which includes brief editorial comments. I found it slightly confusing to see Part I further divided into parts which is why I would prefer the term section for the major subdivisions.

The volume on spores and pollen includes 19 papers reproduced photographically from the original. At least seven of the papers are incomplete, the economy usually being achieved by the omission of some text and commonly all plates. This may be particularly serious as in Germeraad, Hopping and Muller, where the 18 plates are needed if one is to use the paper for biostratigraphy. Obviously the editors were given no choice in such situations.

The five sections are somewhat uneven in presentation. Section I on the spore wall is interesting but weakened by a lack of discussion of visual kerogen analysis. This may reflect (no pun intended) the delays between going to press and papers being available, since the most recent paper in this section was published in 1974. Classification and Stratigraphic Application, which is Section II, is somewhat dated, the three papers appearing originally in 1944, 1955 and 1968. There are certainly more recent and more detailed publications, particularly on the Mesozoic which is not covered. I enjoyed Section III on reworking and other stratigraphic problems, but would have welcomed a discussion on derived Mesozoic palynomorphs.

Megaspores are not my forte so that I perused this section with a view to learning their morphology and stratigraphic significance. Regretfully both the papers by Dijkstra and Hughes are too "specific", including both generic and species descriptions which are of value to the specialist only.

The concluding section on the distribution of spores and pollen in sediments includes some significant papers, but is somewhat restricted in scope since only the Carboniferous and Recent are discussed. I feel that one very important oversight is the absence of a section on evolution. Some very significant contributions including Brenner (1976), Doyle (1973) and Doyle and Hickey (1972) could have been reprinted, but these probably appeared too recently for inclusion.

Palynology Part II is concerned with organic-walled microfossils other than pollen and spores. Accordingly the volume is divided into sections which are mostly concerned with a selected group or groups. Section I discusses the character, affinity and classification of dinoflagellate cysts and acritarchs, and includes some excellent papers, most of which are presented in their entirety. All the papers were originally published within the last twenty years and all should be compulsory reading for practicing palynologists. I do, however, feel that there are some major contributions, such as Downie and Sarjeant (1966), Evitt (1967), and Evitt and Davidson (1964), which should have been included. This, however, merely reflects personal preference, since the chances of any two palynologists coming up with identical lists of the ten most significant palynological papers is probably zero.

Section II on the paleoecology of dinoflagellate cysts and acritarchs is disappointing. Firstly, there is no mention of that which provides most of us with our salary, namely palynostratigraphy. Where is there mention of the significant biostratigraphic papers which have provided new insight into the usefulness of dinoflagellate cysts in resolving stratigraphic problems? These are notably absent, along with such major paleoecological studies as Brideaux (1971), Harland (1976), Scull et al. (1966), and Gruas-Cavagnetto (1968).

The treatment of the dinoflagellate cysts and acritarchs, whilst more pleasing than that of the spores and pollen, suffers from a lack of evolutionary data. Eaton (1971), Malloy (1972) and Stover (1974) are milestone contributions which should not be overlooked. More recent papers were presumably published after the deadline for contributions.

The other sections in Palynology Part II generally provide an introduction for the nonspecialist and must be regarded as such. There is again a paucity of stratigraphic data, although Muir and Sarjeant (1971) and Jenkins (1970) provide some information on the Tasmanitids and Chitinozoa respectively. The paper by Jenkins is an excellent introduction to the Chitinozoa and provides a background for these microfossils that is lacking in the treatment of the other groups. Evitt (1969) has written an excellent chapter on dinoflagellates and acritarchs, but possible copyright problems did not permit its reproduction.

The Benchmark Papers must be a successful series as they already number more than 50. What type of buyer do they appeal to and can one justify the \$42.50 U.S. for the two palynology volumes? They are undoubtedly reasonable value representing roughly 800 pages which works out to 5¢ per page. The quality of reproduction is reasonable, although of necessity there is a considerable waste of paper as in D.B. Williams (1971), and the duplicate cannot better the original. The student or younger palynologist (I include myself in the latter group) would have been well advised to purchase these two volumes, if the individual papers had been reprinted in their entirety. The absence of some of the text and many plates, however, detracts from the overall value of the publications, so that they will not eliminate the need for reprints of some of the papers. The two editors, Drs. Muir and Sarjeant, are to be commended on the quality of their introductory remarks and have earned the gratitude of all palynologists by so capably tackling a difficult task. It is to be hoped that the volumes will find wide acceptance and help to further our science.

G. L. Williams

(cont'd)

References

- Brenner, G.J., 1976: Middle Cretaceous floral provinces and early migrations of angiosperms. In: Beck, C.B., (Editor), Origin and Early Evolution of Angiosperms. Columbia University Press, New York, N.Y., 23-47.
- Brideaux, W.W., 1971: Recurrent species groupings in fossil microplankton assemblages. *Palaeogeogr. Palaeoclimatol. Palaeoecol.*, 9:101:122.
- Downie, C., and Sargeant, W.A.S., 1966: The morphology, terminology and classification of fossil dinoflagellate cysts. In: Davey, R.J., Downie, C., Sargeant, W.A.S. and Williams, G.L., Studies on Mesozoic and Cainozoic dinoflagellate cysts. *Bull. Br. Mus. nat. Hist. (Geol.)*, Suppl. 3, 1017.
- Doyle, J.A., 1973: Fossil evidence on early evolution of the monocotyledons. *Q. Rev. Biol.*, 48(30): 399-413.
- Doyle, J.A., and Hickey, L.J., 1976: Pollen and leaves from the mid-Cretaceous Potomac Group and their bearing on early angiosperm evolution. In: Beck, C.B. (Editor), Origin and Early Evolution of Angiosperms. Columbia University Press, New York, N.Y., 139206.
- Eaton, G.L., 1971: A morphogenetic series of dinoflagellate cysts from the Bracklesham Beds of the Isle of Wight, Hampshire, England. In: Farinacci, A. (Editor), Proc. II Planktonic Conference. *Tecnoscienza*, Roma, 1:355-379.
- Evitt, W.R., 1967: Dinoflagellate studies. II. The archeolpyle. *Stanford Univ. Publ., Geol. Sci.*, 10(3):1-83.
- _____ 1969: Dinoflagellates and other organisms in palynological preparations. In: Tschudy, R.H. and Scott, R.A. (Editors), Aspects of Palynology. Wiley-Interscience, New York, 439-479.
- Evitt, W.R. and Davidson, S.E., 1964: Dinoflagellate studies. I. Dinoflagellate cysts and thecae. *Stanford Univ. Publ., Geol. Sci.*, 10(1):1-12.
- Germeraad, J.H., Hopping, C.A., and Muller, J., 1968: Palynology of Tertiary sediments from tropical areas. *Rev. Palaeobotan. Palynol.*, 6:189-348.
- Guas-Cavagnetto, C., 1968: Etude palynologique des divers gisements du Sparnacien du bassin de Paris. *Mem. Soc. geol. Fr., (N.S.)* 47:1-44.
- Harland, R., 1977: Dinoflagellate cysts from the Bearpaw Formation (?upper Campanian to Maastrichtian) of Montana. *Palaeontology*, 20:179-193.
- Jenkins, W.A.M., 1970: Chitinozoa. *Geoscience and Man.*, 1:1-21.
- Malloy, R.E., 1972: An Upper Cretaceous dinoflagellate cyst lineage from Gabon, West Africa. *Geoscience and Man*, 4:57-65.
- Muir, M.D., and Sargeant, W.A.S., 1971: An annotated bibliography of the Tasmanaceae and of related living forms (Algae: Prasinophyceae). In: Jardine, S. (Editor), *Les acritarches*. Editions C.N.R.S., Paris, 56-117.
- Schopf, J.M., Wilson, L.R., and Bentall, R., 1944: An annotated synopsis of Paleozoic fossil spores and the definition of generic groups. *Rep. Invest. Illinois geol. Surv.*, 91:1-66.
- Scull, B.J., Felix, C.J., McCaleb, S.B., and Shaw, W.G., 1966: The inter-discipline approach to paleo-environmental interpretations. *Trans. Gulf-Coast Assoc. geol. Socs.*, 16:81-117.
- Stover, L.E., 1974: Palaeocene and Eocene species of Deflandrea (Dinophyceae) in Victorian coastal and offshore basins, Australia. *Spec. Pubs. geol. Soc. Aust.* 4:167-189.
- Williams, D.B., 1971: The occurrence of dinoflagellates in marine sediments. In: Funnell, B.M. and Riedel, W.R. (Editors), *Micropaleontology of the Oceans*, Cambridge University Press, London, 231-243.
- Williams, G.L., Sargeant, W.A.S. and Kidson, E.J., 1978: A glossary of the terminology applied to dinoflagellate amphiesmae and cysts and acritarchs: 1978 edition. *Amer. Assoc. Stratigr. Palynol., Contrib. Ser.*, 2A:1-121.

* * * * *

POSITION DESIRED

PALYNOLOGY/MICROPALEONTOLOGY POSITION DESIRED. Deborah Lynn Delfel is seeking employment in exploration geology. BS in geology (Florida State), MS candidate, April, 1979 (Penn State). Thesis topic: Palynostratigraphy/Paleococology of the La Ventana Formation (Upper Cretaceous) San Juan Basin, New Mexico. Experience also with Paleozoic acritarchs and chitinozoans, and coal petrology. Fluency/reading ability in 5 foreign languages. Willing to travel/relocate. Age 24, single. Please write or call: Deborah Lynn Delfel, Palynologic Laboratories Rm. 434 Deike Bldg., University Park, PA. 16802; (814) 865-3321; (Penn State University).

Pulijaal, Venkat Rajeshwarrao; (Permanent Resident, USA.) Seeking a position, Research/Teaching. Ph.D. in Paleopalynology, Osmania University, India; Eight years of Graduate & Undergraduate teaching experience in Botany. For further information please contact: Pulijaal, V.R.; 9434 Sutter Park Lane; Houston, Tex. 77086; (713) 931-6633.

* * * * *

INDIAN PALYNOLOGY SOCIETY

Indian Palynologists have formed the Indian Association of Palynostratigraphers (IAP). The Association is devoted to the augmentation and dissemination of palynological data as a tool for biostratigraphical studies. The Association supports projects of general interest to palynostratigraphers, provides a platform for the presentation of research studies before a competent and critical audience, and furnishes avenues for publication of research studies.

The IAP plans to publish a journal of an international standard and wishes to bring out the inaugural number by January 1980. Enquiries in this connection may be made to Dr. Hari K. Maheshwari, Birbal Sahni Institute of Palaeobotany, 53 University Road, Lucknow 226 007, India.

Managing Council of IAP for 1979: President, Dr. D.C. Bharadwaj; Vice-President, Dr. S.C.D. Sah; Secretary, Dr. K.P. Jain; Treasurer, Dr. R.S. Tiwari; Business Manager, Dr. H.P. Gupta; Editor, Dr. Hari K. Maheshwari; and Councillors, Dr. S.K. Dutta; Mr. H.M. Kapoor; Dr. C.G.K. Ramanujam, Dr. S.K. Srivastava, and Dr. B.S. Venkatachala.

* * * * *

Letters to the Editor (cont'd)

Dear Editor:

Concerning the AASP meetings to be held in Dallas this fall, I wish to offer one suggestion. I gave one of the papers at the tenth annual AASP meetings in Tulsa, 1977. Since I was a student, I was eligible for the Best Student Paper competition. Several weeks after the meetings I received a very informative letter concerning what the committee felt were the good points of my paper and what aspects they felt could be corrected for a better presentation.

After the eleventh annual AASP meeting in Phoenix the committee did not send out these informative letters. I would certainly like to encourage the Dallas committee to re-establish this practice. I did receive some feedback from friends and my academic advisor after the Phoenix meeting but I still feel that if the committee could collectively review each student presentation, we, the students, would be better able to improve subsequent presentations.

Richard G. Holloway

Comment: I can appreciate your remarks and know how valuable these comments can be for the student. Hopefully, the Dallas committee reviewing students as to the merits and faults of the presentations. On the other hand, we must all realize how time consuming such a policy would be. Therefore, I feel that this decision must be left up to the chairman of such committees.

ITEMS FOR NEWSLETTER - DEADLINE DATES

As editor I would like to encourage our members to continue sending news items which they would like to see included in our Newsletter. Since it takes several weeks to prepare a Newsletter for mailing, I would like to set deadlines for receiving contributions. These deadlines will be: February 15 for March Newsletter; May 15 for June Newsletter; August 15 for September Newsletter; and November 15 for December Newsletter.

WELCOME NEW AASP MEMBERS

AASP would like to welcome the following new members:

Below, Raimond, Palaeontologisches Institut, Mussalle 8, 53 Bonn, Germany.

Connors, Stephen Dennis, 152 Yetman Ave., Staten Island, N.Y. 10307. Phone: 212 948 4407.

Enrico, Roy J., 6934 Westlake, Dallas, Texas, 75214. Phone: 214-328-5766.

Hyder, Kirk L., 213 Taliwa Gardens Dr., Knoxville, Tennessee, 37920. Phone: 577-4031.

Islam, Azizul, M., Department of Geology, University of Sheffield, Sheffield, S1 3UD, England, U.K.

King, John William, Department of Geology and Geophysics, University of Minnesota, Minneapolis, Minnesota, 55455. Phone: 612-373-4136.

Marshall, John Edward Allen, Department of Geology, The University of Newcastle upon Tyne, NE1 7RU, United Kingdom. Phone: Newcastle 28511

McHale, William Anthony, 3 Terrace Street, Wilkes-Barre, Pennsylvania, 18702. Phone: 717-238-4105.

Mendelson, Carl Victor, Department of Earth and Space Sciences, University of California at Los Angeles, Los Angeles, California, 90024. Phone: 213-825-1170 or Home 213-473-5879.

Polijsaal, Venkat Rajeshwarrao, 9434 Sutter Parklane, Houston, Texas, 77086. Phone: 713-931-6633.

Sinanoglu, Efe, Turkish Petroleum Corporation, Arastirma Grubu, Mudafaa Cad. No. 22, Ankara, Turkey.

Stevens, Jill, 3/11-17 Watson St., Neutral Bay, Sydney, Australia, 2089. Phone: 901667

Tavera, Carmen M., 202 Buckhout Laboratory, The Penn State University, University Park, Pa., 16802. Phone: Home 814-238-6328 or Office 814-865-6416.

Thanikaimoni, Ganapathi, French Institute, 10 Saint Louis Street, Pondicherry, India, 605001. Phone: 170.

Vasanthi, George, Institut Francais, B.P. No. 33. Pondichery, South India, 605001.

Williams, Ann Louise, 226 Mill Street, Wilkes-Barre, Pennsylvania, 18705. Phone: 717-822-9142.

Woolsey, Anne I., Department of Anthropology, Southern Methodist University, 75275. Phone: 214-692-2926.

NEW POLLEN BOOK AVAILABLE

Dr. P.N. Mehra has recently published a book entitled: Evolution of Spores Through the Ages which is now available for \$9.00 from: The Palynological Society of India National Botanical Research Institute, Lucknow, India. Those interested in obtaining a copy should write directly to the Palynological Society of India.

PRE-PLEISTOCENE DINOFLAGELLATES

L.E. Stover and W.R. Evitt have just completed a reappraisal of 279 pre-Pleistocene dinoflagellate genera. Their descriptions of all genera (considered valid) are presented in a standardized format. Seventeen new genera are erected and 22 genera are listed as junior synonyms.

The publication entitled "Analyses of Pre-Pleistocene Organic-walled Dinoflagellates" is available from Stanford University, Dept. of Geological Sciences, Stanford, California, 94305.

REVISED BYLAWS

OF

AMERICAN ASSOCIATION OF STRATIGRAPHIC PALYNOLOGISTS, INC.

A Non-profit Corporation

Donald W. Engelhardt
Amoco Production Co.
P. O. Box 3092
Houston, TX 77001

Harry A. Jefferywell
Union Oil Research Center
P. O. Box 76
Brea, CA 92621

Robert T. Clarke
Mobil Oil Corporation
P. O. Box 900
Dallas, TX 75221

Richard W. Hedlund
Amoco Production Company
P. O. Box 591
Tulsa, OK 74102

Wayne W. Brideaux
Amoco Canada Pet. Co., Ltd.
444 17th Ave., S.W.
Calgary, Alberta,
Canada T2P 0Y2

Geoffrey Norris
Department of Geology
University of Toronto
Toronto, Ontario,
Canada M5N 1A1

Warren S. Drugy
Chevron Oil Field
Research Company
P. O. Box 446
La Habra, CA 90631

ARTICLE EIGHT

The name and street address of each incorporator is:

Kenneth R. Guest
920 Mercantile Securities Bldg.
Dallas, TX 75201

Gail Proffitt
920 Mercantile Securities Bldg.
Dallas, TX 75201

Randall F. Adair
920 Mercantile Securities Bldg.
Dallas, TX 75201

except to an insubstantial degree, engage in any activities or exercise any powers that are not in furtherance of the primary purpose of this corporation.

(3) Notwithstanding any other provision of these Articles of Incorporation, the corporation shall not conduct or carry on any activities not permitted to be conducted or carried on by an organization exempt from taxation under Section 501 (c) (6) of the Internal Revenue Code and its Regulations as they now exist or as they may hereafter be amended.

This corporation is organized pursuant to the Texas Non-Profit Corporation Act and does not contemplate pecuniary gain or profit to the members thereof and is organized for non-profit purposes.

ARTICLE FIVE

The assets of the corporation in the event of dissolution shall be applied and distributed as follows:

- (1) All liabilities and obligations of the corporation shall be paid, satisfied and discharged.
- (2) All assets held by the corporation upon conditions requiring return, transfer or conveyance, which condition occurs by reason of the dissolution, shall be returned, transferred or conveyed in accordance with such requirements.
- (3) All other remaining assets and income of the corporation shall be distributed and dedicated to another non-profit organization which claims exemption from federal income tax under Section 501 (c) (6) of the Internal Revenue Code.

ARTICLE SIX

The street address of the initial registered office of the corporation is 1338 Naples Drive, Dallas, Texas 75232 and the name of its initial registered agent at such address is Robert T. Clarke.

ARTICLE SEVEN

The number of directors constituting the initial board of directors of the corporation is seven (7), and the names and addresses of the persons who are to serve as the initial directors are:

REVISED BYLAWS
OF
AMERICAN ASSOCIATION OF STRATIGRAPHIC PALYNOLOGISTS, INC.
A Non-Profit Corporation

ARTICLE ONE

OFFICES

Principal Office

1.01 The principal office of the corporation in the State of Texas shall be located in the City of Dallas, County of Dallas. The corporation may have such other offices, either within or without the State of Texas, as the Board of Directors may determine or as the affairs of the corporation may require from time to time.

Registered Office and Registered Agent

1.02 The corporation shall have and continuously maintain in the State of Texas a registered office, and a registered agent whose office is identical with such registered office, as required by the Texas Non-Profit Corporation Act. The registered office may be, but need not be, identical with the principal office of the corporation in the State of Texas, and the address of the registered office may be changed from time to time by the Board of Directors.

ARTICLE TWO

MEMBERS

Classes of Members

2.01 Membership shall be open to all persons and organizations interested in the science of palynology and the corporation shall have three classes of members. The designation of such classes and the qualifications and rights of the members of such classes shall be as follows:

- (a) Individual Members - Individual members shall be persons who are or have been engaged in the science or practice of palynology; who are or have been engaged in the gathering and dissemination of palynological information; or who are engaged in paleontological, botanical, geological, or other technical pursuits compatible with the objectives of the association.
- (b) Institutional Members - Institutional members shall be those firms, institutions of higher learning, or other organizations interested in fostering the science of palynology. Institutional members shall have the right to appoint a person as their designated representative. Such person does not have to be a member. Institutional members shall enjoy all the privileges of the association except that they, or their representatives, shall not hold office or vote. Notwithstanding any of the above limitations, a designated representative of an institutional member, who is also an individual member, may so continue to exercise his/her membership rights and privileges on his/her own behalf.
- (c) Honorary Members - Honorary membership will be awarded on a majority vote of the Board of Directors to persons, members or non-members of A.A.S.P., who have made distinguished contributions to the science of palynology. Such persons will enjoy all privileges of active membership, but will not be required to pay annual dues.

Election of Members

*2.02 Persons desiring membership shall submit to the Secretary-Treasurer an application together with annual dues. Firms, institutions, or organizations desiring membership shall submit their applications to the Secretary-Treasurer together with their annual dues.

ARTICLES OF INCORPORATION

OF

AMERICAN ASSOCIATION OF
STRATIGRAPHIC PALYNOLOGISTS, INC.

We, the undersigned persons of the age of twenty-one (21) years or more, at least two (2) of whom are citizens of the State of Texas, acting as incorporators of a corporation under the Texas Non-Profit Corporation Act, do hereby adopt the following Articles of Incorporation for such corporation:

ARTICLE ONE

The name of the corporation is American Association of Stratigraphic Palynologists, Inc.

ARTICLE TWO

The corporation is a non-profit corporation.

ARTICLE THREE

The period of its duration is perpetual.

ARTICLE FOUR

The purposes for which this corporation is formed are:

- (1) The specific and primary purposes are to promote the science of palynology, especially as it relates to stratigraphic application and biostratigraphy, for and in behalf of the public interest, and to foster the spirit of scientific research among its members and others engaged in this field of science so that information and data on the subject may be discovered and gathered, and then disseminated to its members and to the public alive and in doing so, educate its members and the public in general in this area of science.
- (2) The general purposes and powers are to have and exercise all rights and powers conferred on non-profit corporations under the laws of Texas, or which may hereafter be conferred, including the power to contract, rent, buy, or sell personal or real property; provided, however, that this corporation shall not

shall state a closing date for voting, such date to be forty-five (45) days after ballots are mailed. Ballots shall be returned to the Ballot Committee and counted and reported as provided in these bylaws. An amendment shall be adopted if favored by a majority of those voting, provided that ballots are received from at least one-half of the voting membership. Results of voting on amendments to the bylaws shall be reported to the membership.

Revised bylaws approved for membership vote on October 24, 1978 at

11th Annual Meeting, Phoenix, Arizona by officers of A.A.S.P., Inc.

President William Elsik

Vice President Warren Drugg

Sec.-Treas. Jack Burgess

Councilor Norman Frederiksen

Councilor Evan Kidson

Councilor Richard Pierce

Editor Vaughn Bryant

Chairman Bylaws Revision Comm. Norman Norton

Voting Rights

2.03 Each member in good standing is entitled to vote, and shall have one vote on each matter submitted to a vote of the members.

Termination of Membership

2.04 The Board of Directors, by affirmative vote of two-thirds of all of the members of the Board may, after an appropriate hearing, suspend or expel a member for just cause. Further, the Board of Directors may by a majority vote suspend or expel any member who shall be in default in the payment of dues for the period fixed in Article 11 of these bylaws.

Resignation

2.05 Any member may resign by filing a written resignation with the Secretary-Treasurer, but such resignation shall not relieve the member so resigning of the obligation to pay any dues, assessments, or other charges therefor accrued and unpaid.

Reinstatement

2.06 A former member dropped for non-payment of dues may upon written request to the Secretary and payment of current dues be reinstated to membership.

Transfer of Membership

2.07 Membership in this corporation is not transferable or assignable.

Definition of Member in Good Standing

*2.08 Membership in good standing is defined as one who is not in arrears of dues as defined in the bylaws.

ARTICLE THREE

MEETINGS OF MEMBERS

Annual Meeting

3.01 An annual meeting of the members shall be held each year for the purpose of holding scientific sessions, for the transaction of other business

as may come before the meeting and for installing the new Board of Directors. An Annual Business Meeting shall be an integral part of the annual meeting.

The Annual Business Meeting shall be scheduled between scientific sessions of the annual meeting, and its purpose shall be to report to the membership the state of affairs of the corporation. The agenda for the Annual Business Meeting shall be listed in an official publication of the corporation prior to the annual meeting.

Special Meeting

3.02 A special business meeting of the corporation may be called by the President, the Board of Directors, or not less than a majority of the members by petition. Prior to calling such a special meeting, the Secretary-Treasurer must be informed sixty (60) days before the meeting. The Secretary-Treasurer will then notify the general membership at least thirty (30) days before the special meeting.

Place of Meeting

3.03 The Board of Directors may designate any place, either within or without the State of Texas, as the place of meeting for any annual meeting or for any special meeting.

Notice of Meeting

3.04 Written or printed notice stating the place, day, and hour of any meeting of members shall be delivered, either personally or by mail, to each member, not less than ten (10) nor more than fifty (50) days before the date of such meeting, by or at the direction of the President, or the Secretary-Treasurer, or the officers or persons calling the meeting. In case of a special meeting or when required by statute or these bylaws, the purpose or purposes for which the meeting is called shall be stated in the notice. If mailed, the notice of a meeting shall be deemed to be delivered when deposited in the mail addressed to the member at his address as it appears on the records or the corporation, with postage thereon prepaid.

of incorporation or the bylaws of the corporation, a waiver thereof in writing signed by the person or persons entitled to such notice, whether before or after the time stated therein, shall be deemed equivalent to the giving of such notice.

ARTICLE THIRTEEN

PUBLICATIONS

Newsletter

13.01 The Corporation shall publish a Newsletter to be issued at least two times a year.

Election Information

13.02 One publication of the corporation shall include the slate of nominees for office and other publications shall announce election results.

Special Publications

13.03 Special publications may be prepared and published by the Publications Committee.

Circulation

13.04 The above publications shall not be distributed to members only, but shall be made available at prevailing price to any interested person or organization upon request and further, any interested person or organization may contribute articles and other information for use in these publications.

ARTICLE FOURTEEN

AMENDMENTS TO THE BYLAWS

Amendments to these bylaws may be proposed by the (1) Board of Directors or, (2) submitted to the Secretary-Treasurer by petition and signed by at least ten (10) members in good standing. The Board of Directors shall review each proposed amendment for clarity of meaning and to insure compatibility with other parts of the bylaws. The Board of Directors, with the approval of the petitioners, shall submit the amendment to the members together with a mail ballot which

office a record giving the names and addresses of the members entitled to vote. All books and records of the corporation may be inspected by any member or his agent or attorney for any proper purpose at any reasonable time. All historical books and records are housed at the Hunt Botanical Library, Pittsburgh, Pennsylvania.

ARTICLE TEN

FISCAL YEAR

10.01 The fiscal year of the corporation shall begin on the first day of January and end on the last day in December in each year.

ARTICLE ELEVEN

DUES

Annual Dues

11.01 The Board of Directors may determine from time to time the amount of the annual dues payable in United States currency to the corporation by members of each class.

Payment of Dues

11.02 Dues shall be payable on or before the first day of January in each fiscal year. Dues of a new member shall be payable upon application for membership.

Default and Termination of Membership

11.03 When any member of any class shall be in arrears in the payment of dues after January 1 of the current year, their membership may thereupon be terminated by the Board of Directors, if after written notification by the Secretary-Treasurer, the arrearages are not paid within sixty (60) days of the notification.

ARTICLE TWELVE

WAIVER OF NOTICE

12.01 Whenever any notice is required to be given under the provisions of the Texas Non-Profit Corporation Act or under the provisions of the articles

Informal Action by Members

3.05 Any action required by law to be taken at a meeting of the members or any action which may be taken at a meeting of the members may be taken without a meeting, if a consent in writing, setting forth the action so taken, shall be signed by all of the members entitled to vote with respect to the subject matter thereof.

Quorum

3.06 Members holding a majority of the votes entitled to be cast represented in person or by proxy at any such meeting, shall constitute a quorum. If a quorum is not present at any meeting of members, a majority of the members present may adjourn the meeting.

Proxies

3.07 At any meeting of members, a member entitled to vote may vote by proxy executed in writing by the member or by his/her duly authorized attorney-in-fact. No proxy shall be valid after eleven (11) months from the date of its execution, unless otherwise provided in the proxy.

*3.08 The conduct of all business of the membership not covered by the constitution will be governed by Robert's Rules of Order.

ARTICLE FOUR

BOARD OF DIRECTORS

General Powers

4.01 The affairs of the corporation shall be managed by its Board of Directors. Directors need not be residents of Texas, but must be members of the corporation. Persons serving on the Board of Trustees of the A.A.S.P. Foundation may not at the same time serve as a member of the Board of Directors of A.A.S.P., Inc. The Board of Directors shall authorize expenditures and special publications, submit to members proposals for amendments to these bylaws, fill

vacancies and interim occurring in any corporate office except that of President, to which the President-elect succeeds automatically. It shall hear reports of all Standing Committees, Temporary Committees, and Corporate Officers as well as petitions from members.

Number and Tenure

*4.02 The number of Directors shall be eight. Each Director shall hold office until the next annual meeting of members and until his successor shall have been elected.

Regular Meetings

4.03 A regular annual meeting of the Board of Directors shall be held without other notice than this bylaw, during, and at the same place as, the annual meeting of members. The Board of Directors may provide by resolution the time and place, either within or without the State of Texas, for the holding of additional regular meetings of the Board without other notice than such resolution.

Special Meetings

4.04 Special meetings of the Board of Directors may be called by or at the request of the President or by a majority of the Directors. The person or persons authorized to call special meetings of the Board may fix any place, either within or without the State of Texas, as the place for holding any special meetings of the Board called by them. Actions of the Board of Directors' meetings shall be reported to the membership.

Notice

4.05 Notice of any special meeting of the Board of Directors shall be given at least ten (10) days previously thereto by written notice delivered personally or sent by mail or telegram to each Director at his address as shown by the records of the corporation. If mailed, such notice shall be deemed to be delivered when deposited in the mail so addressed with postage thereon prepaid. If notice be given by telegram, such notice shall be deemed to be delivered

ARTICLE EIGHT

CONTRACTS, CHECKS, DEPOSITS, AND FUNDS

Contracts

8.01 The Board of Directors may authorize any officer or officers, agent or agents of the corporation, in addition to the officers so authorized by these bylaws, to enter into any contract or execute and deliver any instrument in the name of and on behalf of the corporation. Such authority may be general or confined to specific instances.

Checks and Drafts

8.02 All checks, drafts, or orders for the payment of money, notes, or other evidence of indebtedness issued in the name of the corporation shall be signed by such officer or officers, agent or agents of the corporation and in such manner as shall from time to time be determined by resolution of the Board of Directors. In the absence of such determination by the Board of Directors, such instruments shall be signed by the Secretary-Treasurer, and countersigned by the President or President-elect of the corporation.

Deposits

8.03 All funds of the corporation shall be deposited from time to time to the credit of the corporation in such banks, trust companies, or other depositories as the Board of Directors may select.

8.04 The Board of Directors may accept on behalf of the corporation any contribution, gift, bequest, or device for the general purposes or for any special purpose of the corporation.

ARTICLE NINE

BOOKS AND RECORDS

*9.01 The corporation shall keep correct and complete books and records of account and shall also keep minutes of the proceedings of the meetings of its members, Board of Directors, and shall keep at the registered or principal

ARTICLE SEVEN

NOMINATION AND ELECTION OF THE
BOARD OF DIRECTORS

Procedure

7.01 The Nominating Committee and a Ballot Committee shall be appointed as provided in the bylaws.

*7.02 The Nominating Committee shall propose no more than two (2) candidates for each Board membership. The Nominating Committee shall submit to the Secretary-Treasurer by the mid-year meeting of the Board a list of nominees, together with a statement that all submitted nominees will accept the positions upon election. Not later than May 1, the names of candidates for the Board as submitted by the Nominating Committee shall be mailed to the membership. This communication must quote article 7.03.

7.03 Additional nominations may be made by any member in good standing by submitting a petition, signed by at least nine (9) other members in good standing, to the Secretary-Treasurer by June 15.

7.04 The Ballot Committee shall arrange for the preparation and distribution of the ballots to members on or before July 1. Ballots returned to the Ballot Committee prior to the final closing date of August 15 shall be valid; abstaining votes and ballots received later than the closing date shall not be valid. A plurality vote shall be necessary and sufficient for election. In the event of a tie vote, a runoff election will be held. The Ballot Committee shall count all valid ballots and report the results to the Board of Directors through the Secretary-Treasurer.

7.05 Directors or officers are to be elected as specified by the bylaws. Such election may be conducted by mail in such manner as the Board of Directors shall determine.

ered when the telegram is delivered to the telegraph company. Any Director may waive notice of any meeting. The attendance of a Director at any meeting shall constitute a waiver of notice of such meeting, except where a Director attends a meeting for the express purpose of objecting to the transaction of any business because the meeting is not lawfully called or convened. Neither the business to be transacted at, nor the purpose of, any regular or special meeting of the Board need be specified in the notice or waiver of notice of such meeting unless specifically required by law or by these bylaws.

Quorum

4.06 A majority of the Board of Directors shall constitute a quorum for the transaction of business at any meeting of the Board.

Manner of Acting

4.07 Actions by the Directors shall require a simple majority vote of its members unless the act of a greater number is required by law or by these bylaws. The conduct of all business of the Board of Directors not covered by the Constitution will be governed by Robert's Rules of Order.

Vacancies

4.08 Any vacancy occurring in the Board of Directors and any directorship to be filled by reason of an increase in the number of Directors, shall be filled by action of the Board of Directors. A Director elected to fill a vacancy shall be elected for the unexpired term of his predecessor in office.

Compensation

4.09 Directors as such shall not receive any stated salaries for their services.

Informal Action by Directors

4.10 Any action required by law to be taken at a meeting of Directors, or any action which may be taken at a meeting of Directors, may be taken without a meeting if a consent in writing setting forth the action so taken shall be signed by all of the Directors.

ARTICLE FIVE

OFFICERS

Officers

★ 5.01 The officers of the corporation shall be a President, President-elect, Secretary-Treasurer, Managing Editor, four (4) Directors-at-large, and such other officers as may be elected in accordance with the provisions of this Article.

Election and Term of Office

5.02 The officers of the corporation shall be appointed annually by the Board of Directors after the annual election of the Board of Directors. The newly constituted Board of Directors shall take office at the end of the annual business meeting. Further, the Board of Directors shall appoint officers to each office of the corporation as determined by the vote of the membership. Each officer shall hold office until his/her successor shall have been duly elected. The President, President-elect, and Directors-at-large shall not succeed themselves. The Secretary-Treasurer and Managing Editor may succeed themselves in office. Such vote by the membership shall be held in conjunction with the annual election of the Board of Directors.

Vacancies

5.03 A vacancy in any office because of death, resignation, or otherwise, may be filled by a member appointed to such office by the Board of Directors. Such a member appointed shall remain in the office for the unexpired portion of the term.

President

★ 5.04 The President shall be the principal executive officer of the corporation and shall in general supervise and control all of the business and affairs of the corporation. He or she shall preside at all meetings of the members and of the Board of Directors. He or she may sign, with the Secretary-Treasurer or any other proper officer of the corporation authorized

Chairman of the Nominating Committee or by any member of the Nominating Committee delegated to do so by the Chairman. Except for obvious errors, the report should be accepted by the Board without alteration. Following presentation, a copy of the report will be given to the Ballot Committee Chairman, who will have been selected from among the Directors-at-large at the preceding annual meeting.

7. The final list of candidates may be augmented by petition, as provided for in Article 7.03 of the A.A.S.P. bylaws.

- ★ b. Ballot Committee - The Ballot Committee shall be appointed during the annual meeting by the incoming Board of Directors. The committee shall consist of one member of the Directors-at-large as Chairman, and two other members in good standing. The Ballot Committee shall be charged with preparation, distribution, receiving and counting ballots cast in elections or other matters requiring a vote by the members. The Ballot Committee shall hold all ballots until the specified closing date, at which time ballots shall be opened and counted and the results reported to the Board of Directors through the Secretary-Treasurer. The President shall notify all candidates of the election results.
- ★ c. Publications Committee - The Publications Committee shall be appointed each year by the Managing Editor. The committee shall consist of the Managing Editor as Chairman, and as many members as the Editor decides to choose. The Publications Committee shall be responsible for the administration of the corporation's publication program, and for the editing, printing and distribution of its publications.
- d. Annual Meeting Committees - Appointed for each specific annual meeting site by the Board of Directors sufficiently far ahead to make proper arrangements. Each Annual Meeting Committee shall make all local arrangements and also be in charge of the technical program for the annual meeting.

★a. Nominating Committee

1. The Nominating Committee shall consist of five members in good standing who are not current corporation officers or officers of A.A.S.P. Foundation.
2. The Nominating Committee and its chairman shall be appointed by the incoming Board during the annual meeting. Members of the Nominating Committee shall serve for one term.
3. Persons nominated by the Committee shall be contacted by telephone to determine:
 - a) That they are members in good standing. (Affirmative answers should be confirmed by the Secretary-Treasurer prior to candidate selection.)
 - b) That they are willing to be nominated for a particular office, and that they will serve if selected and subsequently elected.
 - c) That they will be able to attend mid-year and annual executive meetings during the tenure of their office.
4. Following his or her verbal acceptance, the nominee should be sent a form letter of acceptance to sign and return to the Chairman. The Nominating Committee Chairman is responsible for drafting, sending, and receiving these letters.
5. Candidates for each office should be selected from among the nominees by majority vote of the members of the Nominating Committee. The Nominating Committee Chairman has the responsibility for informing each candidate of his or her selector and the office for which he or she is a candidate.
6. The list of candidates, their biographies, and their letters of acceptance constitute the final report of the Nominating Committee. The report must be presented at the mid-year meeting of the Board of Directors. It may be presented by the Secretary-Treasurer, the

by the Board of Directors, any deeds, mortgages, bonds, contracts, or other instruments which the Board of Directors have authorized to be executed, except in cases where the signing and execution thereof shall be expressly delegated by the Board of Directors or by these bylaws or by statute to some other officer or agent of the corporation; and in general he or she shall perform all duties incident to the office of President and such other duties as may be prescribed by the Board of Directors from time to time. He or she shall further appoint committees as provided in these bylaws. He or she shall with the concurrence of the Board of Directors appoint an Audit Committee of at least 2 members in good standing to review the Association's financial accounts no less frequently than every other year. This Audit Committee will report their findings at the next scheduled Board of Directors Meeting following said audit.

President-elect

★5.05 The President-elect shall be the Recording Secretary at all meetings of the corporation, and is responsible for distribution of the minutes to the Directors. In the absence of the President, the President-elect shall perform the duties of the President, and when so acting shall have all the powers of and be subject to the restrictions upon the President. The President-elect shall perform such other duties as from time to time may be assigned to him/her by the President or Board of Directors. Further, if the office of President is vacated, the President-elect shall become President for the remainder of that term. The President-elect will succeed to the presidency.

Secretary-Treasurer

5.06 The Secretary-Treasurer shall keep corporate records in one or more books provided for that purpose; give all notices in accordance with the provisions of these bylaws or as required by law; be custodian of the corporate records; keep current lists of the membership of all committees; keep a register

of the post office address of each member which shall be furnished to the Secretary-Treasurer by each member; and, in general, perform all duties incident to the office of Secretary-Treasurer and such other duties as from time to time may be assigned to him or her by the President or by the Board of Directors.

In addition, he or she shall have charge and custody of and be responsible for all funds of the corporation, receive and give receipts for all monies due and payable to the corporation from any source whatsoever, and deposit all such monies in the name of the corporation in such banks, trust companies, or other depositories as shall be selected in accordance with the provisions of Article 3 of these Bylaws. He or she may disburse funds in payment of obligations of the corporation as his or her own authority in amounts less than fifty dollars (\$50.00).

Amounts in excess of fifty dollars (\$50.00) shall be disbursed by him or her only with the approval of the majority of the Board of Directors. He or she shall report on the corporation's financial and membership status at the Annual Business Meeting, to the Board of Directors, and at other times upon the request of the President. He or she shall prepare and submit to the appropriate governmental agencies all financial and administrative forms required to obtain and maintain a tax exempt status as a nonprofit corporation.

Managing Editor

5.01 The Managing Editor shall be responsible for the dissemination of news and technical information among the membership through the medium of the Newsletter and/or other publications, as the Board of Directors may from time to time direct.

Directors-at-Large

*5.08 The Board of Directors shall include four (4) Directors-at-Large who shall be elected for two (2) year terms with two (2) Directors-at-Large to be elected annually.

ARTICLE SIX

General

6.01 The Board of Directors may establish permanent committees to carry out the functions and purposes of the corporation and such committees shall only have the powers and rights specifically conferred upon it by the Board of Directors and by these bylaws. In addition to the permanent committees that may be established by the Board, temporary committees may be established to perform special needs and projects as needed by the President or the Board. Such temporary committees may be continued through succeeding administrations until discharged by the President or the Board.

Term of Office

6.02 Each member of a committee shall continue as such until the next annual meeting of the members of the corporation or until his or her successor is appointed, unless the committee shall be sooner terminated.

Vacancies

6.03 Vacancies in the membership of any committee may be filled by appointments made in the same manner as provided in the case of the original appointments.

Quorum

6.04 Unless otherwise provided in the resolution of the Board of Directors designating a committee, a majority of the whole committee shall constitute a quorum and the act of a majority of the members shall be the act of the committee.

Rules

6.05 No committee may adopt rules for its own government that are inconsistent with these bylaws or with rules adopted by the Board of Directors.

Permanent Committees

6.06 The following committees are permanent committees established by these bylaws and are to be conducted within the following guidelines: