



# AASP NEWSLETTER

D. J. NICHOLS, EDITOR

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JULY 1981

1981 ANNUAL MEETING IN NEW ORLEANS

CHANGES IN EDITORIAL STAFF

EVENTS: 7 OCTOBER - SYMPOSIUM ON MORPHOLOGIC LINEAGES.

BY VAUGHN M. BRYANT

8 OCTOBER - GENERAL SESSION. PAPERS ARRANGED  
ACCORDING TO THEIR AFFINITIES WITH  
THE FOLLOWING CATEGORIES: BIOSTRAT-  
IGRAPHY, MORPHOLOGY, PALEOECOLOGY &  
BIOGEOGRAPHY, ORGANIC METAMORPHISM,  
ICEBREAKER.

9 OCTOBER - GENERAL SESSION,  
BUSINESS LUNCHEON.

10 OCTOBER - FIELD TRIPS: (1) SWAMPS & MARSHES,  
(2) MISSISSIPPI RIVER DELTA.

LOCATION: MONTELEON HOTEL, NEW ORLEANS, LOUISIANA.  
REFER TO ROOM REQUEST FORM ATTACHED TO THIS  
ISSUE OF AASP NEWSLETTER.

REGISTRATION: PREREGISTRATION - \$30 (STUDENTS, \$20).  
REFER TO MEETING REGISTRATION FORM ATTACHED  
TO THIS ISSUE OF AASP NEWSLETTER. AFTER  
30 SEPTEMBER, REGISTRATION \$35 (STUDENTS,  
\$22). FIELD TRIP REGISTRATION FORM ALSO  
ATTACHED. BOOK EARLY FOR FIELD TRIPS AS  
SPACE IS LIMITED.

SPECIAL EVENT: RIVER BOAT CRUISE, WITH SHRIMP AND BEER.  
COST, \$11.75 (\$15 AFTER 30 SEPTEMBER).

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## FINAL CALL FOR PAPERS, NEW ORLEANS MEETING

MEMBERS ARE REMINDED TO SUBMIT TITLES AND ABSTRACTS FOR  
THE ANNUAL MEETING IN NEW ORLEANS AS SOON AS POSSIBLE.  
PLEASE INCLUDE NAME(S) OF AUTHORS AND AFFILIATION(S).  
IF THE PAPER IS COAUTHORED, INDICATE WHICH AUTHOR WILL BE  
PRESENTING THE PAPER. PRESENTATIONS SHOULD BE PLANNED FOR  
A TIME FRAMEWORK OF 20 MINUTES, AND 35 MM SLIDES SHOULD BE  
USED FOR VISUAL AIDS. DUE TO THE LEAD TIME NECESSARY FOR  
TYPING, PRINTING, AND COLLATING OF THE PROGRAM WITH AB-  
STRACTS, ALL AUTHORS SHOULD NOTE THAT THE DEADLINE FOR  
RECEIPT OF COPY IS 15 AUGUST 1981. TITLES AND ABSTRACTS  
SHOULD BE SUBMITTED TO: JEFF STEIN, AMOCO PRODUCTION CO.,  
P.O. Box 50879, NEW ORLEANS, LA 70150.

PROSPECTIVE PARTICIPANTS IN THE POSTER SESSION SHOULD SEND  
TITLES AND ABSTRACTS TO: ROBERT RAVN, AMOCO PRODUCTION CO.,  
P.O. Box 50879, NEW ORLEANS, LA 70150. POSTER SESSIONS  
SHOULD BE DESIGNED AS TABLE-TOP DISPLAYS, 6 FEET IN WIDTH.  
NO WALL SPACE OR BULLETIN BOARDS WILL BE AVAILABLE. POSTER  
SESSION DEADLINE IS ALSO 15 AUGUST 1981.

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THE DISSEMINATION OF INFORMATION ABOUT PALYNOLOGY AND ABOUT  
THE ACTIVITIES OF OUR SOCIETY ARE THE PRIMARY GOALS OF AASP.  
TO HELP ACCOMPLISH THESE TASKS, WE HAVE AN ELECTED MANAGING  
EDITOR AND AN APPOINTED EDITORIAL STAFF. AT PRESENT, THE  
EDITORIAL STAFF CONSISTS OF RAYMOND A. CHRISTOPHER, JOURNAL  
EDITOR, AND DOUGLAS J. NICHOLS, NEWSLETTER EDITOR. OTHER  
INDIVIDUALS WHO ASSIST THE EDITORIAL STAFF INCLUDE EVAN J.  
KIDSON, EDITOR OF THE MEMBERSHIP DIRECTORY, AND ROBERT T.  
CLARKE, WHO KEEPS TRACK OF OUR FLUID MEMBERSHIP.

WORKING AS A MEMBER OF THE EDITORIAL STAFF HAS MANY REWARDS  
FOR A PERSON WHO HAS A REAL COMMITMENT AND WHO ENJOYS THE  
CHALLENGE OF WRITING AND MEETING DEADLINES. THE PRINCIPAL  
REWARDS INCLUDE THE SATISFACTION OF SEEING SOMETHING YOU  
HELPED TO COMPLETE GET PUBLISHED, KNOWING THAT YOUR EFFORTS  
ARE BEING APPRECIATED BY OTHERS, AND REALIZING THAT YOU ARE  
ABLE TO LEAVE A PERMANENT RECORD OF YOUR EFFORTS, IN THE  
FORM OF PUBLISHED JOURNALS, NEWSLETTERS, AND CONTRIBUTION  
SERIES REPORTS. OTHER REWARDS INCLUDE LEARNING PATIENCE  
AND TOLERANCE, AND DEVELOPING A "THICK SKIN" TO CRITICISM!

BEFORE THE FORTHCOMING ANNUAL MEETING IN NEW ORLEANS, WE  
WILL BE CHANGING SOME OF THE MEMBERS OF THE EDITORIAL STAFF.  
RAY CHRISTOPHER IS RESIGNING AS JOURNAL EDITOR. DOUG  
NICHOLS IS RESIGNING AS NEWSLETTER EDITOR BUT HAS AGREED  
TO BECOME THE NEW JOURNAL EDITOR. NORMAN O. FREDERIKSEN  
HAS AGREED TO BECOME THE NEW NEWSLETTER EDITOR. BOB  
CLARKE AND EVAN KIDSON HAVE AGREED TO CONTINUE IN THEIR  
CURRENT ROLES.

AS MANAGING EDITOR, I WOULD LIKE TO TAKE THIS OPPORTUNITY  
TO PERSONALLY THANK THE AASP MEMBERS WHO HAVE SERVED ON  
THE EDITORIAL STAFF OR WHO HAVE OTHERWISE ASSISTED US IN  
OUR MANY EDITORIAL DUTIES. THEIR TIMELESS EFFORTS HAVE  
HELPED TO MAKE OUR PUBLICATIONS WORTHY CONTRIBUTIONS TO THE  
FIELD OF PALYNOLOGY. IN FACT, DUE LARGELY TO THEIR EFFORTS,  
WE ARE NOW ABLE TO ATTRACT ARTICLES AND MONOGRAPHS FROM  
WELL-KNOWN AND COMPETENT RESEARCHERS, SOME OF WHOM ONLY A  
FEW YEARS AGO INDICATED THAT THEY WOULD RATHER PUBLISH  
THEIR ARTICLES IN "MORE PRESTIGIOUS PLACES." I WOULD ALSO  
LIKE TO WELCOME NORM FREDERIKSEN, OUR NEW NEWSLETTER EDITOR.  
I HOPE THAT YOU, THE READERS OF AASP NEWSLETTER, WILL  
OCCASIONALLY TAKE TIME TO COMPLIMENT THE EDITOR FOR HIS  
EFFORTS.

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AASP NEWSLETTER IS PUBLISHED QUARTERLY BY AMERICAN  
ASSOCIATION OF STRATIGRAPHIC PALYNOLOGISTS, INC.

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## BULLETIN BOARD

THIRTEENTH INTERNATIONAL BOTANICAL CONGRESS (XIII.IBC), SYDNEY, AUSTRALIA, 21-28 AUGUST 1981; (AUSTRALIAN ACAD. SCI., P.O. BOX 783, CANBERRA CITY 2601, AUSTRALIA).

HEXROSE CONFERENCE ON MODERN AND FOSSIL DINOFLAGELLATES, TÜBINGEN, GERMANY, SEPTEMBER 1981; (HANS GOCHT, INST. U. MUSEUM FÜR GEOL. U. PALÄONT., SIGWARTSTRASSE 10, D-7400 TÜBINGEN, 1, WEST GERMANY).

FOURTEENTH ANNUAL MEETING, AASP, NEW ORLEANS, LOUISIANA, 7-10 OCTOBER 1981; (DON BENSON, AMOCO PROD. CO., P.O. BOX 50879, NEW ORLEANS, LA 70150); SEE ANNOUNCEMENT THIS ISSUE.

THIRD NORTH AMERICAN PALEONTOLOGICAL CONVENTION (NAPC III), MONTREAL, CANADA, 5-11 AUGUST 1982; (COLIN STEARN, DEPT. GEOL. SCI., MCGILL UNIV., 3450 UNIVERSITY ST., MONTREAL, QUEBEC H3A 2A7).

CIMP-AASP JOINT MEETING, DUBLIN, IRELAND, 13-15 SEPTEMBER 1982; (GEOFF CLAYTON, DEPT. GEOL., TRINITY COLLEGE, DUBLIN 2, EIRE).

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### PALYNOLOGY SYMPOSIA AT NAPC III

AASP AND THE CANADIAN ASSOCIATION OF PALYNOLOGISTS (CAP) ARE SPONSORING TWO HALF-DAY SYMPOSIA AT THE THIRD NORTH AMERICAN PALEONTOLOGICAL CONVENTION (NAPC III), MONTREAL, 5-7 AUGUST 1982. A MORNING SESSION ENTITLED "PALYNOLOGY: THE STATE OF THE ART" IS BEING CHAIRED BY JOCELYN LEGAULT; AN AFTERNOON SESSION ENTITLED "PALYNOLOGY: THE LATEST ENVIRONMENTAL IMPACT STATEMENT" IS BEING CHAIRED BY SARAH DAMASSA. BOTH SESSIONS WILL FEATURE INVITED SPEAKERS. FOR ADDITIONAL INFORMATION, PLEASE WRITE TO THE SESSION CHAIRMEN. ANYONE WISHING TO CONTRIBUTE A PAPER TO THE GENERAL SESSIONS AT NAPC III SHOULD WRITE TO: COLIN STEARN, DEPT. GEOLOGICAL SCIENCES, MCGILL UNIV., MONTREAL, QUEBEC H3A 2A7, CANADA.

OTHER INFORMATION ABOUT NAPC III, TAKEN FROM THE MEETING CIRCULAR, CAN BE FOUND IN THE APRIL 1981 ISSUE OF AASP NEWSLETTER (VOL. 14, NO. 2).

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### CAREER BROCHURES

BY VAUGHN M. BRYANT

IT SEEMS THAT SOMEONE REALLY IS READING AASP NEWSLETTER! IN THE LAST ISSUE WE REPEATED OUR OFFER TO SEND FREE COPIES OF THE CAREER BROCHURE ON PALYNOLOGY TO ANYONE WHO REQUESTED ONE. MANY OF YOU RESPONDED WITH REQUESTS, SO MANY, IN FACT, THAT WE RAN OUT OF COPIES! WE ARE NOW REPRINTING THE BROCHURE, AND NEW COPIES WILL BE AVAILABLE BY THE TIME YOU RECEIVE THIS AASP NEWSLETTER. THEREFORE, THOSE OF YOU WHO MISSED THE EARLIER PRINTING AND NEED COPIES OF THE BROCHURE, PLEASE LET ME KNOW. WRITE TO: VAUGHN M. BRYANT, AASP MANAGING EDITOR, TEXAS A&M UNIV., COLLEGE STATION, TX 77843.

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### NEW MEMBERSHIP DIRECTORY

THE LATEST EDITION OF THE AASP MEMBERSHIP DIRECTORY WAS MAILED IN JUNE. IF YOUR COPY HAS NOT BEEN RECEIVED BY THE TIME YOU RECEIVE THE NEXT ISSUE OF AASP NEWSLETTER, PLEASE WRITE TO INFORM MANAGING EDITOR VAUGHN BRYANT. THE DIRECTORIES WERE SENT VIA BULK RATE AND SURFACE MAIL, AND THEY MAY TAKE SEVERAL WEEKS TO ARRIVE.

BECAUSE THE MEMBERSHIP DIRECTORY IS MAINTAINED AND PRINTED BY COMPUTER, ENTRIES ARE RESTRICTED IN LENGTH. THE SPACE AVAILABLE IS 32 CHARACTERS PER LINE IN 6 LINES. FOR THAT REASON, ABBREVIATIONS ARE USED THAT MAY OR MAY NOT HAVE BEEN IN THE LISTING AS SUBMITTED BY A MEMBER. TITLES ARE ROUTINELY OMITTED TO SAVE SPACE, BUT SOME ABBREVIATIONS DEvised DURING EDITING MAY BE INAPPROPRIATE, ESPECIALLY IN THE CASE OF SOME FOREIGN ADDRESSES. MEMBERS SHOULD KEEP IN MIND THESE RESTRICTIONS, CONVENTIONS, AND EFFORTS-IN-GOOD-FAITH WHEN REVIEWING THEIR OWN LISTING IN THE NEW DIRECTORY. IF SERIOUS ERRORS ARE FOUND THAT COULD CAUSE CORRESPONDENCE, PUBLICATIONS, OR TELEPHONE CALLS TO BE MISDIRECTED, PLEASE NOTIFY SECRETARY-TREASURER JOHN CLEN-DENING. OTHERWISE, PLEASE BEAR WITH US IN OUR EFFORTS TO KEEP REASONABLY ACCURATE TRACK OF ALL MEMBERS OF AASP.

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### WORLD DIRECTORY OF PALAEOONTOLOGISTS

THE INTERNATIONAL PALAEOONTOLOGICAL ASSOCIATION (IPA) IS PLANNING ANOTHER EDITION OF THE WORLD DIRECTORY OF PALAEOONTOLOGISTS. DETAILS WERE PUBLISHED IN LETHAIA, VOLUME 14, P. 71 (1981). THE MOST IMPORTANT PART OF THE PUBLISHED ANNOUNCEMENT IS THE WORLD DIRECTORY OF PALAEOONTOLOGISTS QUESTIONNAIRE, A VERSION OF WHICH IS ATTACHED TO THIS ISSUE OF AASP NEWSLETTER. THOSE WHO RETURN THE COMPLETED QUESTIONNAIRE WILL BE INCLUDED IN THE NEW DIRECTORY. THE DIRECTORY WHEN COMPLETED WILL BE FOR SALE BY IPA; INDIVIDUAL MEMBERS OF IPA WHO HAVE SUBSCRIBED TO LETHAIA FOR 1981 WILL RECEIVE THE DIRECTORY FREE. THE DEADLINE FOR SUBMISSION OF THE COMPLETED QUESTIONNAIRE IS 31 DECEMBER 1981. IPA PLANS TO PUBLISH CONCISE "SOCIAL AND SCIENTIFIC PROFILES" OF PALEONTOLOGISTS LISTED, INCLUDING FIRST NAME, AGE, AND SEX OF EACH. TAXONOMIC, STRATIGRAPHIC, AND GEOGRAPHIC SPECIALIZATIONS WILL BE INCLUDED ALSO. AASP MEMBERS CAN PARTICIPATE BY FILLING OUT THE QUESTIONNAIRE AND RETURNING IT TO ONE OF TWO ADDRESSES LISTED. REFER TO THE ATTACHMENT.

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### "POLLENMAN"

POLLENMAN, THE FICTIONAL COMIC-STRIP CHARACTER WHOSE ADVENTURES WERE FEATURED IN PAST ISSUES OF AASP NEWSLETTER, IS "ON VACATION." A FEW AASP MEMBERS HAVE EXPRESSED SOME UNHAPPINESS WITH POLLENMAN; MOST MEMBERS HAVE EXPRESSED NO FEELINGS WHATEVER. POLLENMAN MAY OR MAY NOT RETURN, DEPENDING ON HOW HIS ADMITTEDLY IRREVERENT ESCAPADES ARE BEING RECEIVED BY READERS OF AASP NEWSLETTER. IF YOU HAVE AN OPINION, EITHER WAY, PLEASE WRITE TO YOUR NEWSLETTER EDITOR. ALL RESPONSES WILL BE HELD IN CONFIDENCE!

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## "L. R. WILSON AWARD" ANNOUNCED

THANKS TO A BEQUEST FROM LEONARD R. WILSON, EMERITUS PROFESSOR OF PALYNOLOGY AT THE UNIVERSITY OF OKLAHOMA, THE AASP OUTSTANDING STUDENT PAPER AWARD WILL HENCEFORTH BE KNOWN AS THE L. R. WILSON AWARD. THE AWARD WILL NOW CONSIST OF A SUBSTANTIAL CASH AWARD PLUS AN INSCRIBED PLAQUE, IN ADDITION TO 2 YEARS FREE MEMBERSHIP IN AASP. THE MONETARY PART OF THE AWARD WILL BE THE INTEREST GENERATED FROM A \$3000 DONATION TO AASP FOR THIS PURPOSE FROM PROFESSOR WILSON. THE ACTUAL AMOUNT ANTICIPATED TO BE AVAILABLE THIS YEAR IS APPROXIMATELY \$300. IN FUTURE YEARS THE CASH AMOUNT WILL PROBABLY EXCEED THIS FIGURE.

PAPERS AUTHORED AND PRESENTED BY STUDENTS AT THE 1981 ANNUAL MEETING IN NEW ORLEANS WILL BE ELIGIBLE FOR THE L. R. WILSON AWARD. ELIGIBILITY REQUIREMENTS FOR THE STUDENT PAPER AWARD RECENTLY ADOPTED BY THE AASP BOARD OF DIRECTORS WILL BE IN EFFECT FOR THIS AND FUTURE YEARS. THESE REQUIREMENTS WERE PUBLISHED IN AASP NEWSLETTER IN JANUARY 1981 (VOL. 14, NO. 1). ADDITIONAL INFORMATION IS AVAILABLE FROM THE ORGANIZING COMMITTEE FOR THE NEW ORLEANS MEETING. STUDENTS WISHING TO COMPETE FOR THIS AWARD SHOULD REQUEST A COPY OF THE FORM TO BE USED BY THE JUDGES.

THE L. R. WILSON AWARD WILL BE IN RECOGNITION OF, AND THUS SHOULD HELP TO ENCOURAGE, THE HIGHEST LEVEL OF PROFESSIONAL ACCOMPLISHMENT BY STUDENTS IN CONDUCTING AND PRESENTING RESULTS OF THEIR RESEARCH IN PALYNOLOGY.

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## DOYLE WINS SCHUCHERT AWARD

AASP MEMBER JAMES A. DOYLE WAS PRESENTED WITH THE SCHUCHERT AWARD OF THE PALEONTOLOGICAL SOCIETY AT THE SOCIETY'S ANNUAL MEETING IN NOVEMBER 1980. HE WAS CITED FOR HIS RESEARCH ON THE EVOLUTION AND ECOLOGICAL IMPLICATIONS OF THE FOSSIL RECORD OF EARLY ANGIOSPERMS, WHICH DATES FROM HIS NOW-CLASSIC 1969 PAPER ON THE MID-CRETACEOUS ANGIOSPERM POLLEN SEQUENCE FROM THE ATLANTIC COASTAL PLAIN, AND WAS CONTINUED WITH STUDIES ON EARLY CRETACEOUS FLORAS AND ON THE ORIGIN AND EARLY HISTORY OF THE MONOCOTS. THE AWARD WAS IN RECOGNITION OF WHAT DOYLE HIMSELF WAS QUOTED AS DESCRIBING AS "DEMYSTIFYING THE ABOMINABLE MYSTERY" OR "MAN BITES BOTANICAL DOGMA."

IN ACCEPTING THE AWARD, JIM DOYLE MENTIONED THAT HE IS THE FIRST PHANEROZOIC PALEOBOTANIST TO HAVE BEEN BESTOWED THIS HONOR. SO FAR AS WE KNOW, JIM IS ALSO THE FIRST PALYNOLOGIST, AND CERTAINLY THE FIRST MEMBER OF AASP, TO WIN THIS DISTINGUISHED AWARD. CONGRATULATIONS, JIM!

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## AASP FOUNDATION FINANCIAL STATUS

THE AASP FOUNDATION HAD A BALANCE OF \$16,070.09 AS OF 15 APRIL 1981, REPORTS FOUNDATION TREASURER BOB CLARKE. THE FOUNDATION DERIVES ITS INCOME FROM PAGE AND REPRINT CHARGES, SALES OF AASP PUBLICATIONS, AND CONTRIBUTIONS FROM MEMBERS OF AASP, INC. AND OTHERS. CONTRIBUTIONS TO AASP FOUNDATION ARE TAX-DEDUCTIBLE.

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## PALYNOLITERATURE

### PUBLICATIONS ON N. Z. PALYNOLOGY AVAILABLE

THE NEW ZEALAND GEOLOGICAL SURVEY HAS A NUMBER OF PALAEO-TOLOGICAL BULLETINS AVAILABLE FOR SALE AT NZ\$2.50 PLUS POSTAGE EACH, OR ON EXCHANGE. THEY INCLUDE:

R. A. COUPER, 1953, UPPER MESOZOIC AND CAINOZOIC SPORES AND POLLEN GRAINS FROM NEW ZEALAND. N.Z. GEOLOGICAL SURVEY PALAEO-TOLOGICAL BULLETIN 22, 77 P.

R. A. COUPER, 1960, NEW ZEALAND MESOZOIC AND CAINOZOIC PLANT MICROFOSSILS. N.Z. GEOLOGICAL SURVEY PALAEO-TOLOGICAL BULLETIN 32, 87 P.

ANYONE WISHING TO PURCHASE THESE SHOULD CONTACT: PUBLICATIONS OFFICER, N.Z. GEOLOGICAL SURVEY, P.O. BOX 30 368, LOWER HUTT, NEW ZEALAND. SCIENTISTS WISHING TO OBTAIN THESE BULLETINS ON EXCHANGE SHOULD CONTACT D. C. MILDENHALL AT THIS ADDRESS.

EDITOR'S NOTE: AASP MEMBERS ARE ADVISED TO ACT QUICKLY TO OBTAIN COPIES OF THESE CLASSIC PUBLICATIONS. THE N. Z. GEOLOGICAL SURVEY HAS STORAGE PROBLEMS, AND BACK ISSUES OF PALAEO-TOLOGICAL BULLETINS WILL BE DISPOSED OF.

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### FOSSIL POLLEN RECORDS OF EXTANT ANGIOSPERMS

A MAJOR PAPER, "FOSSIL POLLEN RECORDS OF EXTANT ANGIOSPERMS" BY JAN MULLER, WAS PUBLISHED IN BOTANICAL REVIEW, VOL. 47, NO. 1, JULY 1981. THIS COMPILATION REPRESENTS AN UPDATED AND EXPANDED VERSION OF AN EARLIER PAPER BY THE SAME AUTHOR (BIOL. REV., 1970) AND CONTAINS A DISCUSSION OF RECORDS FOR 185 FAMILIES, OF WHICH 139 ARE ACCEPTED AS RELIABLE. THE RESULTS ARE SUMMARIZED ON TWO CHARTS, ONE IN STRATIGRAPHIC, THE OTHER IN TAXONOMIC ORDER.

REPRINTS MAY BE OBTAINED FROM: PUBLICATIONS OFFICE, NEW YORK BOTANICAL GARDEN, BRONX, NY 10458. PRICE (INCLUDING POSTAGE AND HANDLING FEE): U.S. ORDERS \$8.75; NON-U.S. ORDERS \$9.50 (PLEASE MAKE PAYMENT IN U.S. CURRENCY DRAWN ON A U.S. BANK).

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### BOOKS RECEIVED FOR REVIEW

THE FOLLOWING BOOKS HAVE BEEN RECEIVED BY AASP NEWSLETTER FOR REVIEW:

JANE GRAY & ARTHUR J. BOUCOT, 1979, HISTORICAL BIOGEOGRAPHY, PLATE TECTONICS, AND THE CHANGING ENVIRONMENT: OREGON STATE UNIVERSITY PRESS, 512 P.

ROGER MORGAN, 1980. PALYNOSTRATIGRAPHY OF THE AUSTRALIAN EARLY AND MIDDLE CRETACEOUS: GEOLOGICAL SURVEY OF NEW SOUTH WALES PALAEO-TOLOGY MEMOIR 18, 153 P., 38 PLS.

CLAUDE MONTY, ED., 1981, PHANEROZOIC STROMATOLITES: SPRINGER-VERLAG, 249 P.

IF YOU WOULD LIKE TO REVIEW ANY OF THESE BOOKS, PLEASE WRITE TO YOUR NEWSLETTER EDITOR. REVIEWERS MAY KEEP THE REVIEW COPY FOR THEIR EFFORTS.

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## POSITIONS AVAILABLE

THE GEOCHEMICAL SERVICES DEPARTMENT OF CORE LABORATORIES, INC. HAS AN OPENING FOR A KEROGEN/COAL PETROLOGIST IN OUR DALLAS OFFICE. THIS POSITION REQUIRES A BS OR MS IN GEOLOGY AND A WORKING KNOWLEDGE OF PALYNOLOGY AND COAL PETROLOGY. RESPONSIBILITIES WILL INCLUDE MICROSCOPIC EXAMINATION OF KEROGEN AND VITRINITE, AND INTERPRETATION OF DATA AS APPLIED TO PETROLEUM EXPLORATION. RÉSUMÉS CAN BE SENT TO: DAVID M. DEMSHUR, CORE LABORATORIES, INC., 7501 STEMMONS FREEWAY, DALLAS, TX 75247.

THE UNION OIL COMPANY OF CALIFORNIA'S GULF COAST REGION IS PRESENTLY PREPARING TO BUILD AND STAFF AN OPERATIONAL PALYNOLOGY LAB TO BE LOCATED IN SUBURBAN HOUSTON. AN EXPERIENCED PALYNOLOGIST, PREFERABLY WITH A STRONG GULF COAST MESOZOIC BACKGROUND, IS BEING SOUGHT TO HEAD-UP THIS EFFORT. UNION OFFERS A COMPREHENSIVE EMPLOYEE BENEFIT PROGRAM AND COMPETITIVE COMPENSATION. UNION OIL IS AN E.O.E. QUALIFIED CANDIDATES SHOULD SEND RÉSUMÉS IN CONFIDENCE TO: R. D. McLENNAN, UNION OIL COMPANY OF CALIFORNIA, 900 EXECUTIVE PLAZA WEST, 4635 SOUTHWEST FREEWAY, HOUSTON, TX 77027.

CHEVRON U.S.A., INC. IS SEEKING A STRATIGRAPHIC PALYNOLOGIST FOR THE NEW ORLEANS OFFICE TO UNDERTAKE OPERATIONAL PROJECTS AND CONDUCT LIMITED, APPLIED RESEARCH IN CENOZOIC, MESOZOIC, AND PALEOZOIC STRATA. BACKGROUND IN DINOFLAGELLATES PREFERRED. APPLICANTS MUST HAVE MASTER'S OR DOCTOR'S DEGREE IN GEOLOGY. EQUAL OPPORTUNITY EMPLOYER M/F. SEND CONFIDENTIAL RÉSUMÉ TO: W. P. S. VENTRESS, CHEVRON U.S.A., INC., 1111 TULANE AVENUE, NEW ORLEANS, LA 70112.

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## POSITION WANTED

KLARA BELKIN, PALYNOLOGIST WITH KANDIDAT DEGREE (SOVIET EQUIVALENT OF PH.D.) FROM THE KOMAROV BOTANICAL INSTITUTE UNDER PROF. KUPRINAOVA, IS SEEKING A PALYNOLOGICAL RESEARCH POSITION. MRS. BELKIN HAS 15 YEARS OF EXPERIENCE IN THE PALYNOLOGY OF FOSSIL AND EXTANT PLANTS, AND MORE THAN 12 PUBLICATIONS. PLEASE WRITE TO: KLARA BELKIN, 414 EAST 204TH STREET, APT. 6E, BRONX, NY 10467.

EDITOR'S NOTE: ANYONE HAVING SUGGESTIONS FOR PROFESSIONAL CONTACTS OF POTENTIAL INTEREST TO MRS. BELKIN MAY WRITE TO: RHEA BENSMAN, VOCATIONAL COUNSELOR, PROGRAM FOR SOVIET EMIGRÉ SCHOLARS/NAJVS, 386 PARK AVENUE SOUTH, ROOM 301, NEW YORK, NY 10016.

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## AASP MEMBERS INVITED TO JOIN CIMP

THE 1982 ANNUAL MEETING OF AASP WILL BE HELD IN DUBLIN, IRELAND, AS A JOINT MEETING WITH COMMISSION INTERNATIONALE DE MICROFLORE DU PALEOZOIQUE (CIMP). AASP MEMBERS WHO ARE NOT ALREADY MEMBERS OF THIS INTERNATIONAL ORGANIZATION WITH SPECIAL INTEREST IN PALEOZOIC PLANT MICROFOSSILS MAY WISH TO CONSIDER JOINING. WRITE TO: BERNARD OWENS, SECRETARY GENERAL, CIMP, INSTITUTE OF GEOLOGICAL SCIENCES, RING ROAD HALTON, LEEDS LS15 8TQ, ENGLAND.

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## FUTURE AASP ANNUAL MEETING SITES

THE NEXT ANNUAL MEETING OF AASP WILL BE HELD IN NEW ORLEANS (AS EVERYONE SHOULD BE AWARE BY NOW!); FOR DETAILS SEE THE ANNOUNCEMENT IN THIS ISSUE OF AASP NEWSLETTER. THE SITE OF THE 1982 MEETING WILL BE DUBLIN, IRELAND, WHERE AASP WILL CONVENE JOINTLY WITH THE COMMISSION INTERNATIONALE DE MICROFLORE DU PALEOZOIQUE (CIMP). THE SETTING FOR THE ANNUAL ASSEMBLY IN 1983 WILL BE THE CITY BY THE BAY, SAN FRANCISCO.

AT THE AASP MID-YEAR MEETING IN APRIL, THE AASP BOARD OF DIRECTORS DECIDED AGAINST HOLDING THE 1984 ANNUAL MEETING IN CONJUNCTION WITH THE 6TH INTERNATIONAL PALYNOLOGICAL CONFERENCE, TO BE HELD IN CALGARY THAT YEAR. ALTHOUGH THE BOARD RECOGNIZED SEVERAL POSSIBLE ADVANTAGES TO CONDUCTING ITS YEARLY CONVENTION AS PART OF THE PROCEEDINGS AT THE IPC, SEVERAL DISADVANTAGES WERE RAISED, AND THESE PROBLEMS WERE RESPONSIBLE FOR THE DECISION AGAINST CALGARY IN 1984. AMONG THE DIFFICULTIES IDENTIFIED WERE: A MEETING DATE IN AUGUST INSTEAD OF OCTOBER AS IS TRADITIONAL; PROBLEMS ASSOCIATED WITH TERMS OF OFFICE OF THE BOARD OF DIRECTORS, WHICH BEGIN AND END COINCIDENT WITH ANNUAL MEETINGS IN ACCORDANCE WITH THE AASP BYLAWS; LACK OF IDENTITY OF AASP WITHIN IPC; AND LACK OF A CLEARLY IDENTIFIED LOCAL COMMITTEE FOR AASP IN CALGARY.

THE BOARD FINALLY ACCEPTED A PROPOSAL TO HOLD THE 1984 ANNUAL MEETING IN WASHINGTON, D.C. NO DECISIONS WERE MADE FOR 1985 AND BEYOND. ALTHOUGH BOSTON, MASSACHUSETTS, AND SAN ANTONIO, TEXAS, WERE DISCUSSED AS POSSIBLE LOCATIONS.

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## PALYNOLOGY, VOLUMES 5 AND 6

PALYNOLOGY, VOLUME 5, IS AT THE PRINTERS. COPIES WILL BE MAILED TO ALL MEMBERS IN GOOD STANDING IN AUGUST, 1981.

MANUSCRIPTS ARE STILL BEING ACCEPTED FOR VOLUME 6. DATE OF PUBLICATION OF VOLUME 6 WILL BE 1982. SUBMIT YOUR MANUSCRIPT NOW. INSTRUCTIONS FOR AUTHORS CAN BE FOUND AT THE BACK OF VOLUME 4.

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## AASP CONTRIBUTIONS SERIES NUMBERS IN PREPARATION

AASP FOUNDATION TRUSTEE BOB CLARKE REPORTS THAT THE FOLLOWING TITLES ARE IN PREPARATION FOR PUBLICATION AS NUMBERS IN THE AASP CONTRIBUTIONS SERIES.

"AN ANNOTATED GLOSSARY OF FUNGAL PALYNOFORMS"

BY THE AASP FUNGAL STUDY GROUP, BILL ELSIK, CHAIRMAN,

"MIDDLE EOCENE SPOROMORPHS FROM SAN DIEGO"

BY NORMAN FREDERIKSEN,

"SILICA FORMATION (DEVONIAN) MICROPHYTOPLANKTON"

BY REED WICANDER AND GORDON WOOD,

"CATALOG OF NORTH AMERICAN DEVONIAN MICROPHYTOPLANKTON"

BY REED WICANDER,

AT THIS TIME, PUBLICATION OF THE FIRST THREE TITLES LISTED IS ANTICIPATED IN 1981, AND A 1982 DATE IS PLANNED FOR THE FOURTH.

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## NEW MONOGRAPH SERIES

PALAEONTOGRAPHICA CANADIANA IS THE TITLE FOR A NEW SERIES OF PALEONTOLOGICAL MONOGRAPHS TO BE PUBLISHED IN CANADA. DEBATE ON THE DESIRABILITY AND FEASIBILITY OF SUCH A SERIES HAS BEEN GOING ON FOR SEVERAL YEARS, AND A RECENT AGREEMENT BETWEEN THE GEOLOGICAL ASSOCIATION OF CANADA AND THE CANADIAN SOCIETY OF PETROLEUM GEOLOGISTS RESULTED IN THE FORMATION OF A JOINT COMMITTEE ON PALEONTOLOGICAL MONOGRAPHS (JCPM). THIS COMMITTEE, COMPRISING PALEONTOLOGISTS AND EDITORS FROM BOTH SOCIETIES, MET RECENTLY AND APPOINTED ROLF LUDVIGSEN (UNIVERSITY OF TORONTO) AS THE FIRST EDITOR OF THE SERIES. HE WILL BE AIDED IN HIS TASK BY 7 ASSOCIATE EDITORS WHO TOGETHER REPRESENT A BROAD VARIETY OF PALEONTOLOGICAL SUBDISCIPLINES. THE DAY TO DAY AFFAIRS OF THE SERIES WILL BE HANDLED BY THE MEMBERS OF JCPM AND THEY ARE CURRENTLY SEEKING FUNDS TO SUSTAIN THE PROJECT AS WELL AS DISCUSSING FORMAT AND PRODUCTION. SOME MONEY WILL BE RAISED FROM PLEDGES BY INDIVIDUAL PALEONTOLOGISTS AND THE REMAINDER WILL BE RAISED FROM CORPORATE, INSTITUTIONAL, AND GOVERNMENT SOURCES. THE EDITORIAL COMMITTEE IS PREPARING A SET OF GUIDELINES FOR AUTHORS, AND AS SOON AS THIS IS PREPARED, THE SERIES WILL BE IN A POSITION TO CONSIDER MANUSCRIPTS FOR THE FIRST MONOGRAPH. EACH MONOGRAPH IS TO BE A SUBSTANTIAL PALEONTOLOGICAL CONTRIBUTION, DOMINANTLY SYSTEMATIC IN CONTENT, WHICH IS PERTINENT TO CANADA. THE SERIES WILL MAINTAIN THE HIGHEST INTERNATIONAL STANDARDS OF CONTENT AND PRODUCTION, AND IT IS HOPED THAT THE FIRST VOLUME WILL APPEAR IN 1982. FOR MANY YEARS MAJOR WORKS ON CANADIAN PALEONTOLOGY HAVE BEEN PUBLISHED IN EUROPEAN OR AMERICAN MONOGRAPH SERIES; THE ADVENT OF PALAEONTOGRAPHICA CANADIANA PROVIDES A LONG-OVERDUE MEDIUM FOR THE PUBLICATION OF MONOGRAPHS OF CANADIAN CONTENT OR INTEREST IN CANADA.

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AASP MEMBERSHIP STOOD AT 778 AS OF APRIL 1981, INCLUDING 699 INDIVIDUAL MEMBERS AND 109 INSTITUTIONAL MEMBERS.

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## SMITHSONIAN INSTITUTION FOREIGN CURRENCY GRANTS PROGRAM

THE SMITHSONIAN FOREIGN CURRENCY PROGRAM, A NATIONAL RESEARCH GRANTS PROGRAM, OFFERS OPPORTUNITIES FOR SUPPORT OF RESEARCH IN BURMA, GUINEA, INDIA, AND PAKISTAN IN THE FOLLOWING DISCIPLINES: ANTHROPOLOGY, ARCHEOLOGY AND RELATED DISCIPLINES, SYSTEMATIC AND ENVIRONMENTAL BIOLOGY, ASTROPHYSICS AND EARTH SCIENCES, AND MUSEUM PROGRAMS. GRANTS IN THE LOCAL CURRENCIES OF THE ABOVE LISTED COUNTRIES ARE AWARDED TO AMERICAN INSTITUTIONS FOR THE RESEARCH OF SENIOR SCIENTISTS. COLLABORATIVE PROGRAMS INVOLVING HOST COUNTRY INSTITUTIONS ARE WELCOME. AWARDS ARE DETERMINED ON THE BASIS OF COMPETITIVE SCHOLARLY REVIEW. THE DEADLINE FOR SUBMISSION IS NOVEMBER 1ST ANNUALLY. FOR FURTHER INFORMATION WRITE: FOREIGN CURRENCY PROGRAM, OFFICE OF FELLOWSHIPS AND GRANTS, SMITHSONIAN INSTITUTION, WASHINGTON, DC 20560, OR CALL (202) 287-3321.

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## FOCUS

### ATLANTIC GEOSCIENCE CENTRE GEOLOGICAL SURVEY OF CANADA

THE ATLANTIC GEOSCIENCE CENTRE (AGC) WAS SET UP AS A DIVISION OF THE GEOLOGICAL SURVEY OF CANADA IN 1972. AGC IS LOCATED ON THE CAMPUS OF THE BEDFORD INSTITUTE OF OCEANOGRAPHY, THE LARGEST OCEANOGRAPHIC INSTITUTE IN CANADA. APPROXIMATELY 100 PEOPLE WORK AT AGC, 47 BEING SCIENTISTS, OF WHICH 4 ARE PALYNOLOGISTS. ALL 4 WORK IN THE EASTERN PETROLEUM GEOLOGY SUBDIVISION. SEDLEY BARSS AND GRAHAM WILLIAMS HAVE BEEN AT THE BEDFORD INSTITUTE SINCE 1971, JON BUJAK ARRIVED IN 1975, AND ED DAVIES IN 1980. THE PALYNOLOGICAL RESEARCH IS PRIMARILY CONCERNED WITH PROVIDING A BIOSTRATIGRAPHIC FRAMEWORK FOR THE LOWER PALEOZOIC TO RECENT SEDIMENTS OF EASTERN CANADA. UPPER PALEOZOIC SPORES ARE THE DOMAIN OF SEDLEY BARSS BECAUSE HE IS THE OLDEST ONE OF THE GROUP, WHILE THE THREE YOUNGSTERS ANALYZE MESOZOIC-CENOZOIC SPORES, POLLEN, AND DINOFLAGELLATES. THE GROUP ALSO STUDIES DISPERSED ORGANIC MATTER FROM OFFSHORE WELLS AND ITS SIGNIFICANCE TO OIL AND GAS GENERATION, FLUORESCENCE OF ORGANIC MATERIAL, THE CARBONIFEROUS OF NORTHERN CANADA, THE UPPER CRETACEOUS-CENOZOIC OF DEEP SEA DRILLING PROJECT CORES FROM THE ATLANTIC, THE CRETACEOUS-CENOZOIC OF GREENLAND AND THE EASTERN ARCTIC, THE JURASSIC OF PORTUGAL, AND TYPE MESOZOIC-CENOZOIC SECTIONS FROM EUROPE. SEDLEY ALSO UNDERTAKES NUMEROUS ANALYSES FOR PROVINCIAL AND FEDERAL GOVERNMENT GEOLOGISTS TO AID THEIR MAPPING PROGRAMS.

IN RECENT YEARS, THE PALYNOLOGISTS AT AGC HAVE BECOME INCREASINGLY INVOLVED WITH COMPUTERIZATION OF THEIR DATA. PALYNOLOGICAL INFORMATION FROM WELLS HAS BEEN ROUTINELY ENTERED ON KEYPUNCH LOAD SHEETS SINCE THE INCEPTION OF THE GROUP IN 1971. ONLY THE FIRST 4 LETTERS OF THE GENERIC AND SPECIFIC EPITHETS OF EACH TAXON ARE RECORDED, BECAUSE THIS IS GENERALLY SUFFICIENT TO PERMIT THE PROGRAM TO ASSIGN A UNIQUE TAXON NUMBER (UTN) TO THE TAXON. FOR ALL SUBSEQUENT PRINTOUTS, THE PROGRAM LOOKS UP THE UTN IN A TAXONOMIC DICTIONARY AND AUTOMATICALLY PRINTS THE LATEST NAME OF THE SPECIES.

DATA ARE RETRIEVED IN VARIOUS WAYS. REPORTS GIVE ALPHABETIC LISTINGS OF TAXA WITH THEIR RELATIVE ABUNDANCE AND OTHER INFORMATION FOR EACH SAMPLE, WITH SEPARATION OF FOSSIL TYPES (DINOFLAGELLATES, SPORES AND POLLEN, FORAMINIFERA, COCCOLITHS, ETC.). THE REPORTS ALSO INCLUDE AN ALPHABETIC LIST OF ALL TAXA RECORDED IN THE SECTION, TOGETHER WITH THE AUTHORS OF EACH TAXON. DATA ARE ALSO RETRIEVED AS OCCURRENCE CHARTS, A VARIETY OF OPTIONS BEING AVAILABLE, SUCH AS PLOTS ON TOPS, BASES, ALPHABETIC, BAR CHARTS, RELATIVE ABUNDANCES, REWORKED SPECIES, SPORES ONLY, ETC. CHARTS MAY BE PLOTTED AS WORKING COPIES OR PUBLICATION COPIES.

IN THE NEXT FEW MONTHS, ALL PALYNOLOGICAL DATA AT AGC WILL BE COMBINED IN AN INTEGRATED DATA BASE THAT WILL PERMIT SIMULTANEOUS RETRIEVAL OF DATA FROM ALL WELLS. VARIOUS DISPLAY PACKAGES ARE PLANNED, INCLUDING MAPS OF SPECIES DISTRIBUTIONS FOR PARTICULAR BIO- OR LITHOSTRATIGRAPHIC UNITS. OTHER APPLICATIONS INCLUDE GRAPHIC CORRELATIONS, REFINEMENT OF ZONATIONS, AND THE RETRIEVAL OF INFORMATION NECESSARY TO CATALOG AND DESCRIBE NEW TAXA FROM THE EAST COAST OF CANADA.

(CONTINUED ON P. 6)

PAPERS IN PRESS OR IN PREPARATION:

WILLIAMS, G. L., AND BUJAK, J. P., IN PREP., DINOFLAGELLATE ZONATIONS, IN: BIOSTRATIGRAPHY OF MARINE PLANKTON, HANS BOLLI, ED. CAMBRIDGE UNIV. PRESS.

BUJAK, J. P., AND WILLIAMS, G. L., IN PRESS, THE EVOLUTION OF DINOFLAGELLATES, CANADIAN JOUR. BOTANY.

LENTIN, J. K., AND WILLIAMS, G. L., IN PREP., FOSSIL DINOFLAGELLATES: INDEX TO GENERA AND SPECIES, 1981 ED. BEDFORD INST. OCEANOGRAPHY REPORT SERIES.

DAVIES, E., IN PREP., THE DINOFLAGELLATE OPPEL-ZONATION OF THE JURASSIC-LOWER CRETACEOUS SEQUENCE IN THE SVERDRUP BASIN, ARCTIC CANADA. GEOL. SURVEY OF CANADA BULL.

JONATHAN P. BUJAK

THE SOUTH DAKOTA SCHOOL OF MINES AND TECHNOLOGY

PALYNOLOGICAL RESEARCH AS WELL AS PETROGRAPHY OF VARIOUS KINDS IS CURRENTLY BEING CONDUCTED AT SDSM&T. FREDRICK RICH IS IN CHARGE OF THE ORGANIC PETROGRAPHY-PALYNOLOGY PROGRAM. THIS IS A RATHER NEW ASPECT OF RESEARCH AT SDSM&T AND CONTRASTS WITH MOST OF THE COURSES AT THIS ENGINEERING SCHOOL.

THE DEPARTMENT OF GEOLOGY AND GEOLOGICAL ENGINEERING IS FULLY ACCREDITED AND OFFERS B.S., M.S., AND PH.D. DEGREES IN BOTH GEOLOGY AND GEOLOGICAL ENGINEERING. THE DEPARTMENT IS PERHAPS BEST KNOWN FOR THE GEOLOGICAL ENGINEERING GRADUATES WHO HAVE OCCUPIED THE RANKS OF OIL COMPANIES FOR MANY YEARS. THE DEVELOPMENT OF DOMESTIC ENERGY RESOURCES HAS BENEFITED OUR STUDENTS GREATLY, AND IS RESPONSIBLE FOR THE ESTABLISHMENT OF THE ORGANIC PETROGRAPHY CURRICULUM.

RESEARCH INTERESTS ARE RATHER BROAD IN SDSM&T'S "COAL GROUP." THESES ARE CURRENTLY UNDERWAY THAT CONCERN ENVIRONMENTS OF COAL DEPOSITION IN THE LOWER CRETACEOUS LAKOTA SANDSTONE (NEWCASTLE, WYOMING) AND THE PALEOCENE FORT UNION GROUP (NORTH CAVE HILLS, SOUTH DAKOTA). GEOCHEMICAL SURVEYS ARE ALSO BEING PERFORMED AT THE NEWCASTLE SITE, AND ARE A VERY IMPORTANT ASPECT OF WORK BEING CONDUCTED NEAR GILLETTE, WYOMING. ANOTHER AREA OF INVESTIGATION INVOLVES TERTIARY LIGNITE DEPOSITS IN KENTUCKY AND TENNESSEE.

PALYNOLOGICAL RESEARCH IS, OR WILL BE, INCLUDED IN MOST OF THE WORK AT SDSM&T. THE DISCIPLINE IS A RATHER NEW ONE IN THIS PART OF THE CONTINENT, SO VIRTUALLY EVERY SECTION OF THE GEOLOGIC COLUMN DESERVES INSPECTION. WORK WILL REMAIN FOCUSED ON DETERMINATION OF PALEOCOMMUNITY RELATIONSHIPS WITHIN COAL-BEARING SEQUENCES PRINCIPALLY OF TERTIARY AGE. THE RELATIONSHIPS WHICH MODERN SUBTROPICAL SWAMP-MARSH COMMUNITIES HAVE WITH TERTIARY PREDECESSORS ARE OF PARTICULAR INTEREST TO RICH. IN THAT REGARD, PARALLELS BETWEEN ANCIENT PALYNOFLORAS AND THOSE OF THE OKEFENOKEE SWAMP WILL CONTINUE TO BE SOUGHT.

WE ARE ALSO PLANNING A NEW EFFORT TO UNDERSTAND THE DEVELOPMENT OF THE BLACK HILLS FLORA. THE AREA IS HOME TO SEVERAL INDIGENOUS SPECIES OF PLANTS, AND HARBORS SEVERAL SUBSPECIES OR RACES OF PLANTS AND ANIMALS. WE BELIEVE A PALYNOLOGICAL RECORD OF THE DEVELOPMENT OF PLEISTOCENE PLANT COMMUNITIES MAY BE PRESERVED LOCALLY, AND THUS RESEARCH INTO THAT PROBLEM MAY BEGIN SHORTLY.

COOPERATIVE RESEARCH IS HIGHLY ESTEEMED AT SDSM&T, AND CURRENT JOINT ORGANIC PETROGRAPHY-PALYNOLOGY PROJECTS ARE UNDERWAY WITH THE UNIVERSITY OF WYOMING, THE KENTUCKY CENTER FOR ENERGY RESEARCH, PENN STATE UNIVERSITY, AND PETROLEUM COMPANIES. WE INVITE INQUIRIES AND ARE CURRENTLY BUILDING UP OUR LABORATORY FACILITIES TO MEET THE NEEDS OF COOPERATIVE INSTITUTIONAL RESEARCH, STUDENT THESIS RESEARCH, AND THE INCREASING DEMANDS FOR MORE EFFICIENT DEVELOPMENT OF GREAT PLAINS ENERGY RESOURCES.

FREDRICK RICH

UNIVERSITY OF KANSAS

A PALYNOLOGY PROGRAM HAS RECENTLY BEEN ESTABLISHED WITHIN THE DEPARTMENT OF GEOGRAPHY-METEOROLOGY AT THE UNIVERSITY OF KANSAS IN LAWRENCE. THE PROGRAM IS AN ELEMENT WITHIN THE CENTER FOR LATE CENOZOIC STUDIES, WHICH IS A MULTIDISCIPLINARY PROGRAM INCLUDING THE DEPARTMENTS OF GEOGRAPHY-METEOROLOGY, GEOLOGY, ANTHROPOLOGY, AND SYSTEMATICS AND ECOLOGY, AND THE MUSEUM OF NATURAL HISTORY. THE PALYNOLOGY FACILITY IS CURRENTLY FOCUSING ON LATE QUATERNARY PALYNOLOGY OF THE CENTRAL GREAT PLAINS. FURTHER, IT IS DIRECTED TOWARD AN INTEGRATION OF GEOMORPHOLOGY, PALEOPEDOLOGY, VERTEBRATE AND INVERTEBRATE PALEONTOLOGY, AND ARCHEOLOGY, WITH COMPLETE LABORATORY FACILITIES AND COLLECTIONS IN EACH AREA. THE PALYNOLOGY FACILITIES INCLUDE A COMPLETE EXTRACTION LABORATORY, RESEARCH MICROSCOPES WITH PHOTOMICROGRAPHY CAPABILITIES, AND TRANSMISSION AND SCANNING ELECTRON MICROSCOPES. THE REFERENCE COLLECTION OF MODERN AND FOSSIL PALYNOFORMS, WHICH IS REPRESENTATIVE OF THE GREAT PLAINS AND CENTRAL AND NORTHERN ROCKY MOUNTAINS, IS MODEST BUT RAPIDLY EXPANDING.

PALYNOLOGICAL ANALYSES IN PROGRESS OR RECENTLY COMPLETED INCLUDE:

- A 110,000-YEAR SEDIMENTARY RECORD FROM NATURAL TRAP CAVE, WYOMING;
- LATE GLACIAL AND NEOGLACIAL TILL, PROGLACIAL LAKE BED DEPOSITS, AND PEAT CORES FROM THE LEMHI RANGE OF SOUTHEASTERN IDAHO;
- PLEISTOCENE AND HOLOCENE ALLUVIAL FILLS IN THE CENTRAL PLAINS;
- CONTEMPORARY SOILS AND BURIED PALEOSOLS IN UPLAND SITES IN CENTRAL AND EASTERN KANSAS;
- LOESS DEPOSITS IN EASTERN KANSAS.

THE PALYNOLOGY PROGRAM IS DIRECTED BY WILLIAM C. JOHNSON AND STAFFED BY A FULL-TIME PALYNOLOGIST, AND EMPLOYS SEVERAL GRADUATE STUDENTS.

WILLIAM C. JOHNSON

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"FOCUS"

SEND ITEMS ABOUT RESEARCH IN YOUR ORGANIZATION TO YOUR NEWSLETTER EDITOR. ITEMS ARE PUBLISHED IN "FOCUS" IN THE ORDER IN WHICH THEY ARE RECEIVED.

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## REVIEWS

THE PALEOBIOLOGY OF PLANT PROTISTS, by HELEN TAPPAN; W. H. FREEMAN AND COMPANY, SAN FRANCISCO; 1980, 1028 p., \$95.00.

STUDENTS OF MICROPALAEONTOLOGY REJOICE! HELEN TAPPAN'S "PALEOBIOLOGY OF THE PLANT PROTISTS" IS AVAILABLE. THE BOOK WAS 10 YEARS IN THE MAKING. DR. TAPPAN STATES IN THE PREFACE (P. XVII) THAT "TEACHING COURSES IN MICROPALAEONTOLOGY IN THE ABSENCE OF A COMPREHENSIVE MODERN SUMMARY OF PERTINENT BIOLOGIC INFORMATION AND THE SIMILAR ABSENCE OF AN UP-TO-DATE SUMMARY OF THE FOSSIL RECORD PROVIDED THE IMPETUS THAT LED TO THE PREPARATION OF THIS VOLUME... THE PURPOSE OF THE PRESENT VOLUME IS TO COMPILE AND SUMMARIZE THE AVAILABLE KNOWLEDGE CONCERNING THE FOSSIL AND LIVING PLANT PROTISTS, THE PROCARYOTES AND EUCARYOTIC ALGAE; TO INDICATE THEIR PROBABLE EVOLUTIONARY RELATIONSHIPS, AS WELL AS THEIR VALUE FOR BIOSTRATIGRAPHY; AND TO SHOW THEIR FLUCTUATIONS IN DIVERSITY AND ABUNDANCE THROUGH GEOLOGIC TIME."

OVER A THOUSAND PAGES INCLUDE ELEVEN CHAPTERS, OF WHICH 3 WILL INTEREST PALYNOLOGISTS SPECIFICALLY: CHAPTER 3, ACROTARCHA OR HYSTRICHOPHYTA; CHAPTER 4, DINOFLAGELLATES; AND CHAPTER 10, GREEN ALGAE: PRASINOPHYTA, CHLOROPHYTA, AND EUGLENOPHYTA. THESE CHAPTERS COMPRISE 40% OF THE VOLUME. OTHER CHAPTERS ARE ON THE PROCARYOTES, RHODOPHYTA, EBRIIDIANS, XANTHOPHYTA AND CHRYSOPHYTA, SILICOFAGELLATES, DIATOMS, NANNOPHYTON, AND CHAROPHYTES AND UMBELLINACEANS. THE BOOK CAN HARDLY BE OPENED WITHOUT ONE FINDING A FULL-PAGE PLATE, LINE DRAWING, OR GRAPH, ALL OF SUPERIOR QUALITY. SUCH A MAGNIFICENT COMPILATION BETWEEN TWO COVERS MAY NEVER AGAIN BE POSSIBLE.

THE FIRST OF 3 CHAPTERS OF DIRECT PALYNOLOGICAL INTEREST IS ON THE ACROTARCHS (77 PAGES). WITH THE BIOLOGIST'S PERSPECTIVE, THE AUTHOR TENDS TO USE MORPHOLOGICAL TERMS SUITED TO LIVING GROUPS, FOR EXAMPLE, WALL TERMINOLOGY (E.G., USE OF ENDOPHRAGM, PERIPHRAGM, MESOPHRAGM) AS COINED FOR DINOFLAGELLATES. SUCH USAGE MAY BE PREMATURE. A TREASURY OF TRANSMITTED LIGHT AND SEM PHOTOMICROGRAPHS ILLUSTRATE MORPHOLOGICAL FEATURES SUCH AS SURFACE SCULPTURE, PROCESSES, EXCYSTMENT OPENINGS, ETC. THESE ARE MOSTLY FROM PREVIOUS PUBLICATIONS BY TAPPAN AND A. R. LOEBLICH, JR., HER "HUSBAND AND FREQUENT COLLABORATOR." ACROTARCH DISTRIBUTION IN TIME AND SPACE, PALEOECOLOGY, CLASSIFICATION, AND MORE THAN 300 REFERENCES MAKE THIS CHAPTER THE MOST PALEONTOLOGICALLY ORIENTED. MICROFOSSILS NOW ASSIGNED TO THE PRASINOPHYCEAN ALGAE ARE DISCUSSED IN A SEPARATE CHAPTER.

ON DINOFLAGELLATES, 238 PAGES INCLUDE THE CELL BIOLOGY, MORPHOLOGY, PHYSIOLOGY, LIFE CYCLE, AND ECOLOGY OF LIVING FORMS. ONLY KOFOID'S PLATE FORMULATIONS ARE DISCUSSED. FIFTEEN PAGES (INCLUDING PLATES, CHARTS, AND LINE DRAWINGS) ARE DEVOTED TO THE FOSSIL RECORD. SOME SKEPTICISM IS AIDED REGARDING AFFINITIES OF *ARPYLORUS ANTIQUUS* CALANDRA AND TASCH'S PERMIAN "DINOFLAGELLATES" BEFORE THE GUARDED STATEMENT IS MADE THAT "*PALAEOPERIDINIUM* SP. (JANSONIUS, 1962) FROM THE PERMIAN OF CANADA APPEARS TO BE AN UNQUESTIONABLE DINOFLAGELLATE." A MINOR PROBLEM IS THAT, TO SOME STUDENTS, THE INCOMPLETELY CAPTIONED BIOSTRATIGRAPHIC ZONATION CHART COMPILED FROM THE WORK OF WILLIAMS AND BUJAK MIGHT NOT SEEM

TO BE RESTRICTED TO EASTERN CANADA, ALTHOUGH IT WAS SO INTENDED BY THOSE AUTHORS. THE BIOLOGICAL BENT OF THIS CHAPTER IS THE BEST TO DATE AND WILL STIMULATE PALYNOLOGISTS.

THE FIRST 24 PAGES OF THE CHAPTER ON GREEN ALGAE DISCUSS THE PRASINOPHYCEAN ALGAE, SO RECOGNIZED BY THEIR WALL STRUCTURE. FAMILIAR FOSSILS, INCLUDING THOSE REFERRED TO *TASMANITES*, *LEIOSPHAERIDIA*, *CRASSOSPHAERA*, *PTEROSPERMELLA*, ETC., ARE ILLUSTRATED AND DISCUSSED. EXTANT RELATIVES *HALOSPHAERA*, *PACHYSPHAERA*, AND *PTEROSPERMA* ARE DISCUSSED BUT NOT ILLUSTRATED.

THERE ARE MANY NICETIES ABOUT THIS VOLUME. IT INCLUDES TWO TABLES OF CONTENTS, ONE IN BRIEF, THE OTHER IN DETAIL. THERE IS AN EXTENSIVE GLOSSARY, ESPECIALLY USEFUL FOR UNFAMILIAR GROUPS. THE INDEX IS KEYS TO REFER THE READER TO ILLUSTRATIONS; TO DEFINITIONS, LOCATIONS IN CLASSIFICATION TABLES, OR TO WHERE AUTHORSHIP IS GIVEN; AND TO TEXT. THERE ARE REFERENCES, LITERALLY THOUSANDS, ON NEARLY EVERYTHING THROUGH 1979, WITH RUSSIAN REFERENCES NOT IN CYRILLIC BUT IN OUR OWN FAMILIAR ALPHABET. THE WRITING IS SMOOTH, AND LACED WITH NUMEROUS ORIGINAL IDEAS GLEANED FROM DOZENS OF PROJECTS INITIATED BY HELEN TAPPAN, HER FAMILY, AND HER FAMILY OF STUDENTS.

NEARLY ALL CRITICISM OF THIS VOLUME MUST BE PICAYUNE AS IT IS NEARLY FREE OF TYPOGRAPHICAL ERRORS, IS LAVISHLY ILLUSTRATED, AND IS A LEVIATHAN AMONG PALEONTOLOGY TEXTBOOKS. LIBRARIES OF UNIVERSITIES, RESEARCH INSTITUTIONS, AND GOVERNMENT AND INDUSTRY LABORATORIES SHOULD HAVE THIS VOLUME AVAILABLE. UNFORTUNATELY, MOST STUDENTS—FOR WHOM THIS BOOK WAS WRITTEN—WILL HAVE TO SACRIFICE TO FIND THE \$95.00 (A LEGITIMATE PRICE, CONSIDERING THE NUMBER OF PLATES) NECESSARY TO OWN A COPY.

STEPHEN R. JACOBSON

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(CONTINUED ON P. 8)

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## FROM ~~TO~~ THE EDITOR

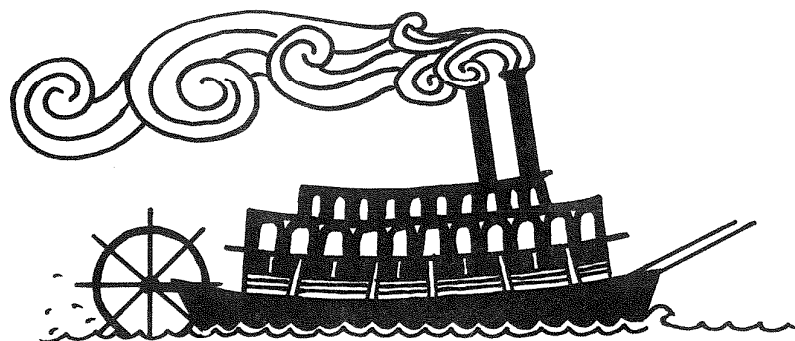
IT IS WITH SOME REGRET THAT WE (!) BRING TO A CLOSE THIS, OUR FINAL ISSUE OF AASP NEWSLETTER. NOT THAT PUBLICATION CEASES WITH THIS ISSUE, OF COURSE, BUT THIS IS OUR LAST. IT HAS BEEN A PLEASURE AND INDEED AN HONOR TO SERVE AASP THESE PAST TWO YEARS AS NEWSLETTER EDITOR. IT HAS ALSO BEEN A MOST INTERESTING EXPERIENCE, JUST AS VAUGHN BRYANT PROMISED IT WOULD BE. THE ULTIMATE GOAL WAS ALWAYS TO KEEP THE MEMBERS INFORMED, AND ALSO PERHAPS TO MAKE THIS, AASP'S ORGAN OF COMMUNICATION, INTERESTING TO READ. WE HOPE THAT BOTH ENDS WERE MET, AND ALSO THAT THE MEMBERS WERE PLEASED WITH THE RESULTS MOST OF THE TIME. ONE CAN ONLY ASSUME THIS TO BE TRUE, BASED ON A MINIMAL NUMBER OF UNPRINTABLE LETTERS TO THE EDITOR!

REMEMBER, PLEASE, THAT AASP NEWSLETTER IS YOUR PUBLICATION. THE BEST WAY YOU CAN OFFER SUPPORT TO NORM FREDERIKSEN, THE NEW EDITOR, IS TO TAKE ADVANTAGE OF THIS FORUM TO REACH YOUR FELLOW MEMBERS. SEND NEWSWORTHY ITEMS TO NORM. WRITE TO HIM AND TELL HIM WHAT YOU LIKE OR DISLIKE ABOUT AASP OR AASP NEWSLETTER ITSELF. AND PLEASE, READ EACH ISSUE CAREFULLY TO KEEP TRACK OF DEVELOPMENTS IN THE ORGANIZATION AND IN THE SCIENCE.

WE WISH THE BEST TO NORM, AND WE LOOK FORWARD TO TRYING TO FILL RAY CHRISTOPHER'S BOOTS AS JOURNAL EDITOR. PERHAPS IN THAT ROLE WE WILL FINALLY LEARN WHY EDITORS ALWAYS SPEAK IN THE PLURAL! IS IT SPLIT PERSONALITY? ...AN ILLUSION OF SAFETY IN NUMBERS? ...TWO HEADS?

ED.

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GET DOWN - ON THE DELTA - NEW ORLEANS '81

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Address (institution if any, street number or post office box, city, state, country; add "zip" or other postal code at appropriate place):

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(1) Range: Area:

(2) Range: Area:

(3) Range: Area:

Approaches (taxonomy, ecology, biostratigraphy, etc.):

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Return to: Vivianne Berg-Madsen  
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National Museum  
Washington, DC 20560

Deadline: 31 December 1981

(AASP News1. 14-3)

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Technical reviewers are needed to assist in evaluating manuscripts submitted to PALYNOLOGY. Only through the review process can we assure that the papers published in AASP's journal meet the high standards we want to achieve.

Please complete this form and mail it now to: Vaughn M. Bryant, Jr., Managing Editor, Palynology Laboratory, Texas A&M University, College Station, TX 77843

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Geologic ages

Fossil groups