



AASP NEWSLETTER

D. J. NICHOLS, EDITOR

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JANUARY 1981

MESSAGE FROM THE PRESIDENT

BY JOHN E. BENNETT

IF AWARDS WERE GIVEN FOR "BEST SITE SELECTION FOR ANNUAL MEETING BY A COMMITTEE," I BELIEVE THE DENVER GROUP WOULD BE A STRONG CONTENDER TO BE THE RECIPIENT. KEYSTONE IS CERTAINLY A BEAUTIFUL FACILITY AND WAS IDEALLY SUITED FOR HOSTING THE 13TH ANNUAL MEETING OF AASP.

THE THEME OF THE MEETING WAS ESTABLISHED BY THREE EXCELLENT INVITED PAPERS: E. G. KAUFFMAN, "BIOLOGICAL CONCEPTS IN BIOSTRATIGRAPHY;" F. ROYSE, JR., "USE OF PALYNOLOGY IN OIL AND GAS EXPLORATION OF WYOMING-NORTHERN UTAH-EASTERN IDAHO THRUST BELT;" AND W. R. EVITT, "THE DIFFERENCE IT MAKES THAT DINOFLAGELLATES DO IT DIFFERENTLY." THESE WERE COMPLEMENTED VERY NICELY BY A FINE COLLECTION OF CONTRIBUTED PAPERS AND AN AFTERNOON POSTER SESSION. THE FINALE OF THE MEETING WAS AN EXCELLENT GEOLOGIC/SCENIC FIELD TRIP.

LOOKS OF CONCERN WERE NOTICED ON THE FACES OF SOME OF THE ORGANIZING COMMITTEE MEMBERS WHEN THE SEASON'S FIRST SNOWFALL BEGAN. THESE LOOKS TURNED TO WHAT COULD BE DESCRIBED AS "CONTROLLED PANIC" WHEN IT WAS ANNOUNCED THAT THE BUS TRIP TO VAIL WOULD HAVE TO BE CANCELLED DUE TO POOR ROAD CONDITIONS. POTENTIAL DISASTER WAS AVERTED AND TURNED INTO A MEETING HIGHLIGHT, HOWEVER, WHEN MS. LOIS ELMS (WESTERN EXPERIENCE) MANAGED TO ORGANIZE A HIGHLY SUCCESSFUL IMPROMPTU PARTY. IT HAS BEEN SUGGESTED BY SEVERAL ATTENDEES THAT WE MAKE THIS AN INTEGRAL PART OF THE ANNUAL MEETING.

WHEN YOU HAVE A MEETING AS SUCCESSFUL AS THE ONE IN KEYSTONE IT IS GENERALLY THE RESULT OF THE WORK OF A TREMENDOUS NUMBER OF CONTRIBUTORS. JOE GUENNEL AND ALL THE PEOPLE INVOLVED ARE CERTAINLY TO BE CONGRATULATED. I THINK IT IS ACCURATE TO SAY THAT MOST OF US IN ATTENDANCE CAME AWAY WITH AN ACUTE CASE OF "ROCKY MOUNTAIN FEVER." AS SOON AS THE COMMITTEE HAS HAD SUFFICIENT RECOVERY TIME, IT WOULD BE NICE TO RETURN.

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FIRST ANNOUNCEMENT - 1981 ANNUAL MEETING

BY DON BENSON

THE 1981 ANNUAL MEETING OF AASP WILL BE HELD IN NEW ORLEANS, LOUISIANA, AT THE MONTELEONE HOTEL, 7-10 OCTOBER. THE HOTEL IS LOCATED 1½ BLOCKS INSIDE THE FRENCH QUARTER, WITHIN EASY WALKING DISTANCE OF A VARIETY OF EXCELLENT RESTAURANTS. MEMBERS ARE ENCOURAGED TO BRING THEIR SPOUSES. VARIED TOUR ARRANGEMENTS ARE AVAILABLE WITHOUT EXTENSIVE PRE-PLANNING. THE WEATHER IS LIKELY TO BE WARM (MID TO HIGH 80'S) DURING THE DAY AND 70'S IN THE EVENING.

THE MEETING WILL BEGIN WITH A SERIES OF INVITED PAPERS DEALING WITH "MORPHOLOGIC LINEAGES." THE TECHNICAL SESSIONS WILL BE ORGANIZED IN THE FOLLOWING CATEGORIES: BIOSTRATIGRAPHY, MORPHOLOGY, PALEOECOLOGY/BIOGEOGRAPHY, AND ORGANIC GEOCHEMISTRY. EACH SESSION WILL BE HIGHLIGHTED BY AN INVITED ADDRESS. A POSTER SESSION WILL BE HELD IN CONJUNCTION WITH THE ICEBREAKER.

IN ADDITION TO THE NORMAL SOCIAL AND BUSINESS GATHERINGS ATTENDANT TO ANY AASP MEETING, AN EVENING RIVERBOAT CRUISE WITH SEAFOOD AND BEER IS PLANNED.

AASP MEMBERS ARE URGED TO COME TO NEW ORLEANS AND PARTICIPATE IN THE TECHNICAL SESSIONS. THE FORMAL CALL FOR PAPERS WILL APPEAR IN THE NEXT AASP NEWSLETTER, AS WILL INFORMATION ON RESERVATIONS, REGISTRATION, ETC.

PLEASE NOTE THAT THE FINAL DEADLINE FOR ABSTRACT RECEIPT IS 15 AUGUST 1981.

THE LOCAL COMMITTEE INCLUDES:

DON BENSON - CHAIRMAN	(504) 586-6422
TERRY BEACH - SYMPOSIUM	" 521-6594
JEFF STEIN - INVITED SPEAKERS	" 536-6786
BOB RAVN - POSTER SESSION	" 586-5975
DON CAMERON - PROGRAM	" 521-6593
CASSIE WILLIAMS - SOCIAL FUNCTIONS	" 521-6325

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GET DOWN - ON THE DELTA - NEW ORLEANS '81

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DUES DUE—CHECK YOUR LABEL

PLEASE TAKE NOTE OF THE ANNUAL DUES NOTICE ATTACHED TO THIS ISSUE OF AASP NEWSLETTER. THIS WILL BE THE ONLY GENERAL ANNOUNCEMENT REQUESTING PAYMENT FOR 1981. ALSO TAKE NOTE OF THE ADDRESS LABEL. IT BEARS A NUMBER IN RED THAT WILL INDICATE THE LAST YEAR FOR WHICH YOUR DUES ARE PAID. FOR EXAMPLE, IF YOUR NUMBER IS 80, YOUR DUES FOR 1981 ARE NOW DUE. IF YOUR NUMBER IS LESS THAN 80 YOU ARE IN ARREARS! IT IS POSSIBLE TO PAY DUES UP TO 3 YEARS IN ADVANCE, AND MANY MEMBERS FIND THIS A CONVENIENCE. IF YOU HAVE PAID IN ADVANCE, YOUR ADDRESS LABEL WILL INDICATE THIS. IF YOU NEED TO PAY FOR 1981, WHY NOT DETACH THE DUES NOTICE, NOW, WHILE YOU ARE THINKING OF IT, AND RETURN IT WITH YOUR CHECK? AASP REMAINS ONE OF THE BEST BARGAINS IN SCIENTIFIC MEMBERSHIP IN THE WORLD.

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

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JAMES BARTEL URBAN

1933 - 1980

ON THE NIGHT OF 18 OCTOBER THE SHOCKING NEWS OF AN AIR TRAGEDY INVOLVING THREE MEMBERS OF THE URBAN FAMILY AND THE PILOT, MRS. LISA WEISS, CAME OVER THE TV AS MRS. WILSON AND I WERE HAVING DINNER ON OUR WAY HOME FROM THE AASP KEYSTONE MEETING. THE NEWS WAS MOMENTARILY UNBELIEVABLE. THE URBANS HAVE BEEN PART OF OUR STUDENT FAMILY FOR MORE THAN TWENTY YEARS AND OUR RELATIONSHIPS WERE VERY CLOSE. TONYA, THEIR DAUGHTER, FORTUNATELY HAD REMAINED IN NORMAN TO ATTEND UNIVERSITY CLASSES.

THE ACCIDENT IN WHICH JIM, HIS WIFE ELISA, SON JAMES II, AND MRS. WEISS WERE KILLED OCCURRED APPROXIMATELY AT 10:30 P.M., 17 OCTOBER, AS THEY WERE LEAVING BUFFALO, WYOMING, WHERE THEY HAD BEEN ON A HUNTING TRIP. AT THE TIME OF TAKE-OFF A LIGHT SNOW WAS FALLING AND MAY HAVE BEEN THE CAUSE OF THEIR SMALL PLANE NOT PROPERLY CLEARING THE RUNWAY AND CRASHING INTO AN ADJACENT DEEP RAVINE.

JIM TOOK HIS PALYNOLOGY DEGREES AT THE UNIVERSITY OF OKLAHOMA. HIS M.S. DEGREE (1962) WAS THE FIRST INTENSIVE STUDY OF DEVONIAN PALYNOLOGY IN NORTH AMERICA. IT DEALT WITH THE WOODFORD SHALE IN THE ARBUCKLE MOUNTAINS OF OKLAHOMA. THE THESIS WITH ADDITIONAL MATERIAL IS SCHEDULED TO BE PUBLISHED BY THE OKLAHOMA GEOLOGICAL SURVEY AS CIRCULAR 73. HIS PH.D. DISSERTATION (1964) WAS ON THE PALYNOLOGY OF THE MINERAL COAL (PENNSYLVANIAN), ALSO IN OKLAHOMA. ITS PUBLICATION IS ANTICIPATED, BUT NO DATE IS YET AVAILABLE. SUBSEQUENTLY HE MADE NUMEROUS DEVONIAN STUDIES UTILIZING ELECTRON MICROSCOPY AND SEVERAL OF WHICH WERE CONCERNED WITH THE CHITINOZOA, TASMANITES, AND QUISQUILITES. THESE ARE PUBLISHED IN VARIOUS JOURNALS.

IN THE TWENTY TWO YEARS SINCE TAKING HIS DOCTORAL DEGREE JIM HAD WIDE PROFESSIONAL EXPERIENCE AND ACCOMPLISHED MORE THAN MOST PEOPLE DO IN A LIFETIME. HE INITIATED THE CONOCO OIL COMPANY PALYNOLOGY PROGRAM, THEN RETURNED TO ACADEMIC ENDEAVOR AT CENTRAL MISSOURI STATE COLLEGE; FROM THERE HE MOVED TO THE UNIVERSITY OF TEXAS AT DALLAS, WHERE HE BECAME CHAIRMAN OF SCIENCE EDUCATION, AND REMAINED AN ADJUNCT PROFESSOR OF GEOLOGY AFTER LEAVING TEXAS TO ESTABLISH THE URBAN OIL COMPANY IN OKLAHOMA. JIM'S WIDE GEOLOGICAL TRAINING AND DYNAMIC ENERGY MADE HIM A SUCCESSFUL PETROLEUM HUNTER AS WELL AS TEACHER. HE HAD IN ONLY SEVERAL YEARS DRILLED APPROXIMATELY TWO HUNDRED PRODUCING WELLS.

THE URBANS WERE OUT-OF-DOOR PEOPLE WHO ENJOYED CAMPING, FISHING, AND HUNTING AND TOOK EVERY OPPORTUNITY POSSIBLE FOR THOSE EXPERIENCES. ELISA, BETTER KNOWN AS "JIMMY," AND JAMES II FULLY SHARED THOSE ACTIVITIES. TONYA IS A SENIOR GEOLOGY MAJOR AT THE UNIVERSITY OF OKLAHOMA AND PLANS TO CARRY ON THE WORK OF HER FATHER. JIM, ELISA, AND JAMES II WILL BE SADLY MISSED BUT WILL BE REMEMBERED FOR THE WONDERFUL PEOPLE THEY WERE.

L. R. WILSON

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JAMES B. URBAN SCHOLARSHIP FUND

JIM URBAN SPENT MOST OF HIS PROFESSIONAL CAREER, ALMOST 13 YEARS, AS A MEMBER OF THE GEOSCIENCES FACULTY AT THE UNIVERSITY OF TEXAS AT DALLAS. FOR THE LAST 5 YEARS HE ALSO SERVED AS THE FIRST PROGRAM HEAD IN SCIENCE EDUCATION, BUILDING IT INTO A DEPARTMENT THAT PROVIDED QUALITY INSTRUCTION TO LOCAL TEACHERS SEEKING A MASTER'S DEGREE IN SCIENCE EDUCATION. IN THE GEOLOGICAL PROFESSION AND IN THE TEACHING FIELD JIM TOUCHED THE LIVES OF MANY. A NUMBER OF HIS FRIENDS AND COLLEAGUES HAVE SUGGESTED THAT A SCHOLARSHIP BE ESTABLISHED IN JIM'S NAME AS THE MOST APPROPRIATE MEMORIAL TO SOMEONE WHO HAD SPENT MOST OF HIS PROFESSIONAL CAREER IN ACADEMIC SERVICE. THE JAMES B. URBAN SCHOLARSHIP FUND HAS BEEN FORMALLY ESTABLISHED.

RICHARD M. MITTERER, HEAD OF PROGRAMS IN GEOSCIENCES AT THE UNIVERSITY OF TEXAS AT DALLAS, HAS BEEN WRITING TO THOSE WHO WERE ACQUAINTED WITH JIM AND WHO WISH TO CONTRIBUTE TO THE FUND. THE INCOME FROM THE FUND WILL BE AWARDED TO A DESERVING STUDENT IN THE GEOSCIENCES PROGRAM.

CONTRIBUTIONS MAY BE SENT TO THE JAMES B. URBAN SCHOLARSHIP FUND IN CARE OF THE GEOSCIENCES PROGRAM, THE UNIVERSITY OF TEXAS AT DALLAS, P.O. BOX 688, RICHARDSON, TX 75080.

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BULLETIN BOARD

II CONGRESSO LATINO-AMERICANO DE PALEONTOLOGIA, PORTO ALEGRE, BRAZIL, 26-30 APRIL 1981; (AV. OSWALDO ARANHA, 218, 90.000 PORTO ALEGRE, RS, BRAZIL).

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

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

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KEYSTONE ABSTRACTS AVAILABLE

COPIES OF THE PROGRAM AND ABSTRACTS OF THE 13TH ANNUAL MEETING OF AASP (KEYSTONE, COLORADO, 14-18 OCTOBER 1980) ARE AVAILABLE FROM AASP FOUNDATION AT \$ 2.00 EACH. WRITE TO: R. T. CLARKE, AASP FOUNDATION, c/o MOBIL R&D CORP., P.O. Box 900, DALLAS, TX 75221. THE VOLUME INCLUDES ABSTRACTS OF THE FOLLOWING PAPERS:

- R. A. ASKIN & D. H. ELLIOT, "RECYCLED PERMIAN AND TRIASSIC PALYNOMORPHS FROM SEYMOUR ISLAND, ANTARCTICA, AND THEIR GEOLOGIC IMPLICATIONS"
- R. W. AURISANO, "UPPER CRETACEOUS SUBSURFACE DINOFLAGELLATE STRATIGRAPHY AND PALEOECOLOGY OF THE ATLANTIC COASTAL PLAIN OF NEW JERSEY"
- A. N. BINT, "AN EARLY PLIOCENE POLLEN ASSEMBLAGE FROM LAKE TAY, SOUTHWESTERN AUSTRALIA, AND ITS PHYTOGEOGRAPHIC IMPLICATIONS"
- J. P. BUJAK & G. L. WILLIAMS, "THE EVOLUTION OF DINOFLAGELLATES"
- J. D. BURGESS, P. J. SWETLAND, & D. DEMSHUR, "OIL GENERATION AND MIGRATION IN THE WYOMING THRUST BELT"
- A. V. CHADWICK, "CAPPASPORITES - A COMMON MIDDLE PENNSYLVANIAN PALYNOMORPH"
- D. K. CHOI, A. TRAVERSE, & L. J. HICKEY, "PRELIMINARY REPORT ON THE PALEOPALYNOLOGY OF THE EUREKA SOUND FORMATION, ELLESMERE AND AXEL HEIBERG ISLANDS, CANADIAN ARCTIC"
- G. K. COLBATH, "THE ARCHETYPAL SPORE: A MODEL FOR THE INTERPRETATION OF BRYOPHYTE PHYLOGENY"
- E. H. DAVIES, "ARCHEOPYLE PATTERNS IN LATE CRETACEOUS PERIDINIACEANS"
- C. A. DAWSON, "CARBONIFEROUS MIOSPORES FROM THE TYLER FORMATION, FERGUS COUNTY, CENTRAL MONTANA"
- K. DORNING, "SILURIAN ACRTARCH AND CHITINOZOA BIOSTRATIGRAPHY OF WESTERN EUROPE AND EASTERN NORTH AMERICA"
- K. DORNING, "DINANTIAN ACRTARCHS FROM THE S.W. PROVINCE OF THE BRITISH ISLES"
- L. E. EDWARDS, "DINOFLAGELLATES AND THE EOCENE-OLIGOCENE BOUNDARY IN ALABAMA AND MISSISSIPPI"
- W. R. EVITT, "THE DIFFERENCE IT MAKES THAT DINOFLAGELLATES DO IT DIFFERENTLY"
- D. K. GOODMAN, "POLYMORPHIC CYST LINEAGES AND CURRENT CONCEPTS IN FOSSIL DINOFLAGELLATE SYSTEMATICS"
- R. HARLAND, "RECENT DINOFLAGELLATE CYSTS FROM THE SOUTHERN BARENTS SEA"
- R. G. HOLLOWAY, "EXPERIMENTAL DEGRADATION OF THE POLLEN EXINE BY BIOLOGICAL AGENTS"
- R. HUBBARD & M. BOULTER, "PALEOECOLOGICAL AND BIOSTRATIGRAPHIC INTERPRETATIONS BY PRINCIPAL COMPONENT ANALYSIS"
- S. R. JACOBSON & D. J. NICHOLS, "BIOSTRATIGRAPHIC APPLICATION OF THE CINGULUM INDEX OF DINOGYMNIUM"
- K. G. JENSEN & A. V. CHADWICK, "POLLEN AND SPORES OF THE JURASSIC-CRETACEOUS GREAT VALLEY SEQUENCE, NORTHWESTERN CALIFORNIA"
- E. G. KAUFFMAN, "BIOLOGICAL CONCEPTS IN BIOSTRATIGRAPHY"

R. J. LITWIN, A. TRAVERSE, & S. R. ASH, "SPORES FROM COMPRESSED FERN MEGAFOSSILS OF THE CHINLE FORMATION - A PRELIMINARY REPORT"

M. A. MILLER & L. E. EAMES, "PALYNOMORPHS FROM THE SILURIAN MEDINA GROUP (LOWER LLANDOVERY) OF THE NIAGARA GORGE, LEWISTON, NEW YORK, U.S.A."

D. J. NICHOLS & S. R. JACOBSON, "GUIDE SPECIES OF DINOCYSTS, POLLEN, AND SPORES FROM CRETACEOUS FORMATIONS IN THE OVERTHRUST BELT OF UTAH AND WYOMING"

A. D. PARTRIDGE, "SAMPLING FOR THE PETROLEUM PALYNOLOGIST"

F. J. RICH, D. KUEHN, & T. D. DAVIES, "OVOIDITES LIGNEOLUS R.POT. AS AN INDICATOR OF ANCIENT FRESHWATER MARSH HABITATS"

F. ROYSE, "USE OF PALYNOLOGY IN OIL AND GAS EXPLORATION OF THE WYOMING-NORTHERN UTAH-EASTERN IDAHO THRUST BELT"

J. D. SHANE, "ENERGY DISPERSIVE X-RAY SPECTROSCOPY IN PALEOECOLOGY"

J. D. SHANE & W. D. CLARK, "RECOVERING POLYMERIZED FOSSIL PALYNOMORPH RESIDUES"

G. E. VYHMEISTER, S. F. BARNETT, & A. V. CHADWICK, "PALYNOLOGICAL CORRELATION OF THE KENTUCKY No. 12 COAL (MIDDLE PENNSYLVANIAN)"

R. WICANDER & R. P. WRIGHT, "ORGANIC WALLED MICROPHYTOPLANKTON ABUNDANCE AND STRATIGRAPHIC DISTRIBUTION FROM THE MIDDLE DEVONIAN COLUMBUS AND DELAWARE LIMESTONES OF OHIO, U.S.A."

L. R. WILSON & A. P. BENNISON, "MULTIDISCIPLINE EVIDENCE FOR A NEW DESMOINESIAN-MISSOURIAN (PENNSYLVANIAN) BOUNDARY IN CENTRAL OKLAHOMA"

R. J. WITMER & H. HAGA, "PALYNOSTRATIGRAPHY OF THE NATIONAL PETROLEUM RESERVE IN ALASKA"

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MEXICO CITY COLLOQUIUM ABSTRACTS AVAILABLE

INTERESTED INDIVIDUALS CAN OBTAIN A COPY OF THE ABSTRACTS VOLUME FOR PAPERS PRESENTED AT THE 4TH COLLOQUIUM ON PALEOBOTANY AND PALYNOLOGY HELD IN MEXICO CITY IN JULY, 1980. WRITE TO: ELOY SALAS, INST. MEXICANO DEL PETROLEO, Av. 100 METROS #152, APARTADO POSTAL 14-805, MEXICO 14, D.F.

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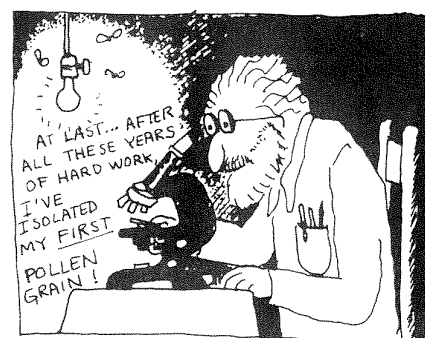
POSITION AVAILABLE

ANDERSON WORLDWIDE ASSOCIATES, INC., HAS AN OPENING FOR A PALYNOLOGIST IN THE SAN DIEGO OFFICE. EXPERIENCE SHOULD INCLUDE TERTIARY THROUGH CARBONIFEROUS. AS A CONSULTING BIOSTRATIGRAPHIC FIRM, WE REQUIRE APPLICANTS TO HAVE A STRONG GEOLOGIC BACKGROUND, AND THE ABILITY TO INTEGRATE THERMAL ALTERATION AND VITRINITE REFLECTANCE DATA FOR THE PETROLEUM INDUSTRY. SEND RESUMES TO: M. A. STEELE, ANDERSON WORLDWIDE ASSOCIATES, INC., 11526 SORRENTO VALLEY ROAD, SUITE G, SAN DIEGO, CA 92121

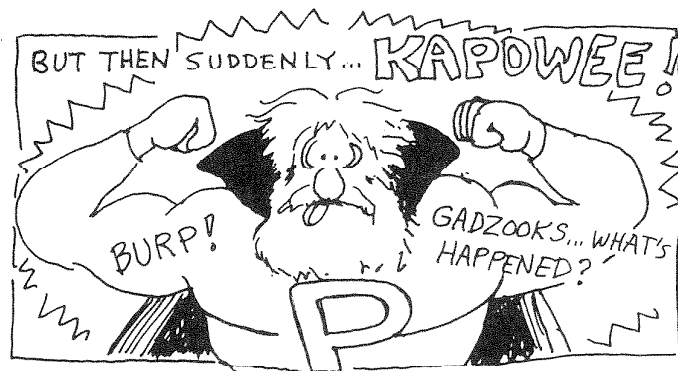
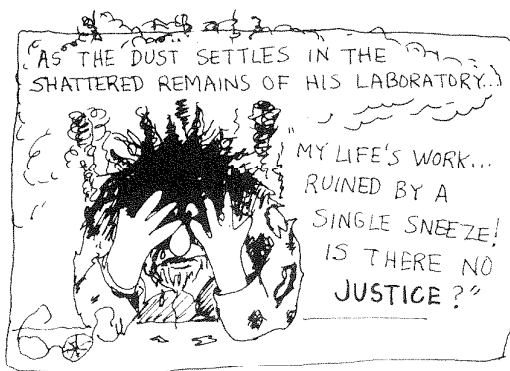
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THE EXPURGATED ADVENTURES OF Pollenman by T. Ager

PART I:
IN THE DARK CORRIDORS
OF A LARGE MIDWESTERN
UNIVERSITY, WE JOIN
PAUL INMAN, AN UNOBTUSIVE,
QUIET, UNASSUMING, SHY,
PARANOID, BORING, ASPIRING
SCIENTIST - WOULD BE
PALYNOLOGIST - WORKS
LATE INTO THE NIGHT....



AND AS HE FOCUSES
THE SUPERB OPTICS OF HIS
SEARS, ROEBUCK MICROSCOPE
HE CATCHES HIS FIRST LOOK
AT HIS ELUSIVE POLLEN
GRAIN...



TO BE CONTINUED....

POLLINMAN

A NEW SERIES, "THE EXPURGATED ADVENTURES OF POLLENMAN," BEGINS IN THIS ISSUE OF AASP NEWSLETTER. POLLENMAN WAS CONCEIVED SOME YEARS AGO BY THE FERTILE MIND AND CLEVER HAND OF TOM AGER. THOSE WHO KNOW POLLENMAN FROM THOSE EARLY DAYS WILL UNDERSTAND WHY IN THE CURRENT SERIES HE IS "EXPURGATED." AASP NEWSLETTER IS, AFTER ALL, A FAMILY PUBLICATION! WE BEGIN WITH TWO CHAPTERS OF OUR HERO'S ADVENTURES. POLLENMAN WILL RETURN IN SUBSEQUENT ISSUES.

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"FOCUS" NEEDS ITEMS

INFORMATION ON PROGRAMS IN PALYNOLOGICAL RESEARCH AT NORTH AMERICAN INSTITUTIONS IS NEEDED FOR "FOCUS." NEWS OF ON-GOING AND RECENTLY COMPLETED WORK WILL BE OF INTEREST TO PALYNOLOGISTS WORLDWIDE. SEND A BRIEF ACCOUNT OF ACTIVITY IN YOUR ORGANIZATION TO YOUR NEWSLETTER EDITOR.

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CORRECTION

IN THE ARTICLE ON AASP ELECTION RESULTS THAT APPEARED IN THE OCTOBER ISSUE OF AASP NEWSLETTER, IT WAS STATED THAT LEWIS E. STOVER WAS ELECTED PRESIDENT, AND ALSO THAT JOHN E. BENNETT WILL BE PRESIDENT. SOURCE OF THE CONFUSION IS THE RECENT CHANGE IN TERMS OF OFFICE OF THE BOARD OF DIRECTORS, EFFECTED BY THE NEW BYLAWS. LEW IS ACTUALLY PRESIDENT-ELECT. HE WILL SERVE IN THAT OFFICE FOR ONE YEAR AND THEN ASSUME THE OFFICE OF PRESIDENT. THE CURRENT PRESIDENT OF AASP IS JOHN, WHO WAS CHOSEN PRESIDENT-ELECT BY THE MEMBERSHIP LAST YEAR. SORRY FOR THE MIX-UP. AND JOHN, WE WERE REALLY NOT TRYING TO KEEP YOU FROM TAKING THE REINS.

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PALYNOLOGY AT THE NORTH ATLANTIC MARGINS
JOINT MEETING OF CIMP & AASP

THE FIRST CIRCULAR DESCRIBING THE JOINT MEETING OF THE COMMISSION INTERNATIONALE DE MICROFLORE DU PALEOZOIQUE AND AMERICAN ASSOCIATION OF STRATIGRAPHIC PALYNOLOGISTS WAS NOT RECEIVED BY MOST AASP MEMBERS. INFORMATION CONTAINED IN THAT CIRCULAR IS REPRODUCED HERE AT THE REQUEST OF BERNARD OWENS, SECRETARY-GENERAL OF CIMP.

INTRODUCTION. THE SECOND JOINT MEETING OF CIMP AND AASP IS TO BE HELD IN DUBLIN FROM 13 TO 15 SEPTEMBER 1982, HOSTED JOINTLY BY TRINITY COLLEGE DUBLIN AND THE GEOLOGICAL SURVEY OF IRELAND. ALL PALYNOLOGISTS ARE WARMLY INVITED TO ATTEND.

THEME. PAPERS AND DEMONSTRATIONS ON THE THEME "THE PALYNOLOGY OF THE NORTH ATLANTIC MARGINS" WILL BE GIVEN PREFERENCE FOR INCLUSION IN THE PROGRAM. IT IS HOPED THAT SUCH TOPICS AS THE COMPARISON OF THE EASTERN AND WESTERN NORTH ATLANTIC MARGINS, DEVELOPMENT OF THE NORTH ATLANTIC, AND THE PALEOECOLOGY OF MARINE AND NONMARINE PALYNOMORPHS AND THEIR BEARING ON THE PALEO GEOGRAPHY AND PALEOCLIMATOLOGY OF THE NORTH ATLANTIC REALM WILL BE DISCUSSED.

KEYNOTE SPEAKERS.

P. C. REID (IMER, PLYMOUTH), "NORTH ATLANTIC DINOFLAGELLATE CYSTS FROM CONTINUOUS PLANKTON RECORDS AND IMPLICATIONS TO THE FOSSIL RECORD"

J. BUJAK & G. WILLIAMS (GSC), "CENOZOIC PALYNOSTRATIGRAPHY OF THE NORTH ATLANTIC BASIN AND MARGINS"

G. NORRIS (TORONTO), "ARCTIC TERTIARY MARINE AND TERRESTRIAL PALYNOFLORAS: PROBLEMS OF CORRELATION TO LOWER LATITUDES AND PALEOCLIMATIC INTERPRETATION"

C. DEEGAN (IGS, EDINBURGH), "GEOLOGICAL EVOLUTION OF THE NORTH ATLANTIC"

H. J. SULLIVAN (AMOCO, CANADA), TO BE ANNOUNCED

CONTRIBUTIONS ON OTHER TOPICS WILL BE WELCOMED. SEVERAL WORKING GROUPS WILL HOLD MEETINGS DURING THE CONFERENCE, AND SOME OF THESE WILL PRESENT PROGRESS REPORTS. IT IS ANTICIPATED THAT PAPERS DEALING WITH PALYNOMORPHS OF ALL AGES FROM PRECAMBRIAN TO QUATERNARY WILL BE INCLUDED IN THE PROGRAM.

VENUE. ALL SESSIONS WILL BE HELD IN TRINITY COLLEGE, DUBLIN.

PROGRAM. REGISTRATION WILL BEGIN ON SUNDAY, 12 SEPTEMBER. LECTURES, DEMONSTRATIONS, AND WORKING GROUP MEETINGS WILL TAKE PLACE ON 13 - 15 SEPTEMBER, INCLUSIVE. TWO FIELD EXCURSIONS WILL BE HELD IMMEDIATELY AFTER THE MEETING, ONE LOWER PALEOZOIC AND THE OTHER UPPER PALEOZOIC. THESE WILL EACH BE FOR EITHER ONE OR THREE DAYS, DEPENDING ON PREFERENCES INDICATED.

CONFERENCE LANGUAGE. THE CONFERENCE LANGUAGES WILL BE ENGLISH AND FRENCH.

PUBLICATION. ABSTRACTS OF PAPERS WILL BE PRINTED AND DISTRIBUTED BEFORE THE MEETING. PAPERS READ AT THE MEETING WILL BE CONSIDERED FOR PUBLICATION IN PALYNOLOGY, SUBJECT TO NORMAL AASP PUBLICATION PROCEDURES.

REGISTRATION FEE. IT IS ESTIMATED THAT THE REGISTRATION FEE WILL NOT EXCEED £20 FOR PROFESSIONAL MEMBERS. A SUBSTANTIALLY REDUCED RATE IS PLANNED FOR STUDENTS.

ACCOMMODATION. LIMITED ACCOMMODATIONS WILL BE AVAILABLE IN TRINITY COLLEGE. ACCOMMODATION WILL ALSO BE AVAILABLE IN NUMEROUS HOTELS OF VARYING STANDARDS CLOSE TO THE COLLEGE.

SECOND CIRCULAR. THE SECOND CIRCULAR WILL BE CIRCULATED IN EARLY 1981.

ENQUIRIES. ENQUIRIES AND REQUESTS FOR FURTHER INFORMATION SHOULD BE ADDRESSED TO EITHER OF THE LOCAL SECRETARIES: GEOFF CLAYTON, DEPT. GEOLOGY, TRINITY COLLEGE, DUBLIN 2; KEN HIGGS, GEOLOGICAL SURVEY OF IRELAND, 14 HUME ST., DUBLIN 2, EIRE.

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MANUSCRIPTS NEEDED FOR PALYNOLOGY VOLUME 6

BY VAUGHN BRYANT

WE NEED QUALITY MANUSCRIPTS FOR VOLUME 6 OF PALYNOLOGY. AT PRESENT WE HAVE ONLY 3 MANUSCRIPTS THAT HAVE BEEN ACCEPTED FOR VOLUME 6. NORMALLY WE ACCEPT 12 TO 14 MANUSCRIPTS, SO THERE IS STILL ROOM FOR 10 MORE IN VOLUME 6. PLEASE RESPOND TO THIS REQUEST AS QUICKLY AS POSSIBLE BY SENDING US YOUR MANUSCRIPTS. IN THAT WAY WE CAN CONTINUE TO PRODUCE ONE MAJOR VOLUME OF PALYNOLOGY EACH CALENDAR YEAR.

ONE REASON THAT WE NEED MANUSCRIPTS FOR VOLUME 6 IS THAT THE REJECTION RATE HAS BEEN RISING AS WE CONTINUALLY TRY TO UPGRADE THE QUALITY OF THE MATERIAL PUBLISHED IN PALYNOLOGY. WE RELY HEAVILY ON THE ADVICE OF OUR REFEREES CONCERNING THE QUALITY OF SUBMITTED MANUSCRIPTS. THOSE WHO HAVE HAD A MANUSCRIPT REJECTED IN THE PAST SHOULD CONSIDER REVISING IT AND RESUBMITTING IT. IN SEVERAL CASES WE HAVE PUBLISHED QUALITY PAPERS THAT WERE ORIGINALLY REJECTED, AFTER APPROPRIATE REVISION. WITH THESE EFFORTS WE HOPE TO CONTINUE TO PRODUCE A JOURNAL THAT ALL AASP MEMBERS WILL BE PROUD TO CONSIDER AS A SOURCE FOR RESEARCH PUBLICATIONS.

PLEASE REMEMBER: WE ACCEPT MANUSCRIPTS FOR CONSIDERATION THROUGHOUT THE YEAR. THERE ARE NO LONGER ANY DEADLINE DATES. AND, FOR THOSE WHO ARE PREPARING MANUSCRIPTS FOR PALYNOLOGY, PLEASE FOLLOW THE GUIDELINES SET FORTH IN THE "INSTRUCTIONS FOR AUTHORS" SECTION IN THE BACK OF VOLUME 4.


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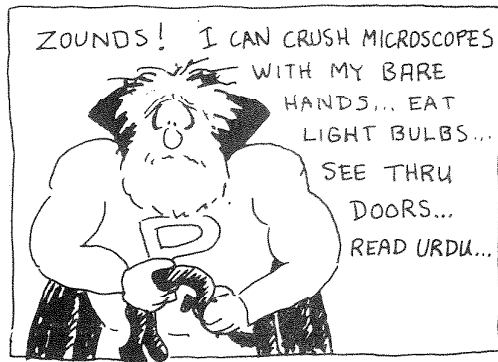
1980 OUTSTANDING STUDENT PAPER AWARD


THE AASP OUTSTANDING STUDENT PAPER AWARD FOR 1980 WAS WON BY JOHN D. SHANE FOR HIS PRESENTATION ON "RECOVERING POLYMERIZED FOSSIL PALYNOMORPH RESIDUES." THE PAPER WAS CO-AUTHORED BY JOHN D. SHANE AND W. DENNIS CLARK. THEIR WORK CONCERNED THE USE OF THE SOLVENT DMSO IN SALVAGING MATERIAL FROM POLYMERIZED MOUNTING MEDIA AND IN THE PREPARATION OF MODERN POLLEN. JOHN, WHO IS A DOCTORAL CANDIDATE AT ARIZONA STATE UNIVERSITY, PRESENTED THE PAPER AT THE ANNUAL MEETING IN KEYSTONE, COLORADO. KUDOS, JOHN!

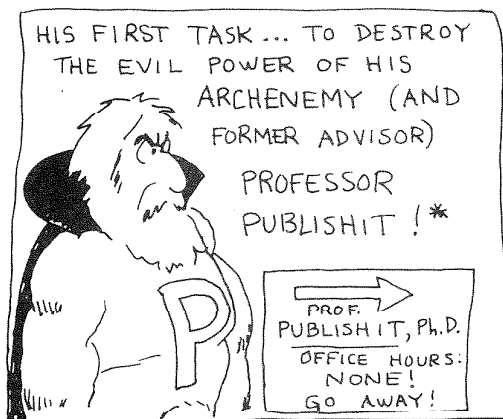
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THE EXPURGATED
ADVENTURES
OF
Pollenman
by T. Ager

PART II:
OUR LONG-SUFFERING SCIENTIST, BEWILDERED
BY AN UNUSUAL ALLERGIC REACTION FROM
A RARE POLLEN TYPE → 
FINDS HIMSELF IN
POSSESSION OF STRANGE AND
WONDROUS POWERS....



CONVINCED OF HIS INVINCIBILITY,
PAUL INMAN ACCEPTS HIS
NEW POWERS AND HIS NEW
IDENTITY AS "POLLENMAN."
HE DECIDES TO DEVOTE
HIS LIFE TO THE CAUSE OF
Academic Justice, 



TO BE CONTINUED....

*ANY RESEMBLANCE BETWEEN PROF. PUBLISHIT AND ACTUAL INDIVIDUALS IS ENTIRELY
COINCIDENTAL AND UNINTENTIONAL... MORE OR LESS.

COSUNA STRATIGRAPHIC CHARTS READY FOR REVIEW

DRAFT COPIES OF MANY OF THE STRATIGRAPHIC CHARTS PREPARED
FOR THE COSUNA PROJECT (CORRELATION OF STRATIGRAPHIC UNITS
OF NORTH AMERICA) ARE READY FOR REVIEW. CHARTS OF REGIONAL
INTEREST WILL BE PRESENTED AT THE FOLLOWING MEETINGS:
AAPG SOUTHWEST SECTION, SAN ANGELO, TEXAS (SOUTHERN MID-
CONTINENT REGION); AAPG ROCKY MOUNTAIN SECTION, ALBUQUERQUE,
NEW MEXICO (GREAT BASIN, ROCKY MTS., AND FORELAND REGION);
AAPG NATIONAL MEETING, SAN FRANCISCO (WEST COAST REGION AND
ALASKA). INTERESTED AASP MEMBERS ARE INVITED TO REVIEW THE
CHARTS AT THESE MEETINGS. COSUNA REGIONAL COORDINATORS WILL
BE ON HAND WITH FORMS TO FILL OUT WITH CRITICISMS. FOR
FURTHER INFORMATION CALL: BARBARA WHITNEY AT (714) 528-7201.

EDITOR CARTOON

A CARTOON DEPICTING A HARRIED EDITOR APPEARED ON PAGE 10
OF THE OCTOBER ISSUE OF AASP NEWSLETTER WITHOUT CREDIT. IT
WAS DRAWN BY DEREK SARTY OF HALIFAX, WHO WAS COMMISSIONED
BY THE GEOLOGICAL ASSOCIATION OF CANADA AND THE ASSOCIATION
OF EARTH SCIENCE EDITORS, AND WHO MADE THE DRAWING UNDER
THE DIRECTION OF G. L. WILLIAMS AND M. P. LATREMOUILLE.
IT WAS REPRINTED FROM AN AESE MEETING ANNOUNCEMENT WITHOUT
PERMISSION FOR ITS USE HAVING BEEN OBTAINED. YOUR AASP
NEWSLETTER EDITOR REGRETS ANY PROBLEMS THIS MAY HAVE CAUSED.

* * * * *

ELIGIBILITY REQUIREMENTS DEFINED FOR STUDENT PAPER AWARD

BY HARRY A. LEFFINGWELL

AASP SPONSORS AN OUTSTANDING STUDENT PAPER AWARD AT ITS ANNUAL MEETINGS TO ENCOURAGE STUDENT PARTICIPATION IN THE MEETINGS. THE AWARD CONSISTS OF A SCROLL ACKNOWLEDGING THE AWARD AND TWO YEARS FREE MEMBERSHIP IN AASP.

ELIGIBILITY REQUIREMENTS HAVE NOT BEEN PRECISELY DEFINED AND CONSEQUENTLY THE AASP PRESIDENT APPOINTED A COMMITTEE TO REVIEW AND RECOMMEND POSSIBLE CHANGES IN ELIGIBILITY REQUIREMENTS. THE COMMITTEE MADE THE FOLLOWING RECOMMENDATIONS, WHICH WERE APPROVED BY THE AASP BOARD OF DIRECTORS AT THE KEYSTONE MEETING. THE GUIDELINES WILL BECOME EFFECTIVE FOR THE 1981 ANNUAL MEETING.

TO BE ELIGIBLE FOR CONSIDERATION FOR THE STUDENT PAPER AWARD, A SPEAKER MUST FULFILL THE FOLLOWING REQUIREMENTS:

- (1) THE SPEAKER SHOULD BE REGISTERED IN A GRADUATE DEGREE PROGRAM, OR IF THE SPEAKER HAS FORMALLY COMPLETED HIS/HER GRADUATE DEGREE REQUIREMENTS, HE/SHE CANNOT HAVE BEEN EMPLOYED MORE THAN 6 MONTHS AT THE TIME THE PAPER IS GIVEN.
- (2) THE PAPER MUST REPRESENT RESEARCH CARRIED OUT DURING HIS/HER ACADEMIC CAREER.
- (3) THE PAPER CANNOT BE COAUTHORED, AND MUST BE PRESENTED BY ITS AUTHOR.

THESE REQUIREMENTS ARE INTENDED TO MINIMIZE ANY ADVANTAGE THAT MIGHT BE GAINED THROUGH RESOURCES AVAILABLE AT POST-GRADUATE, NON-ACADEMIC INSTITUTIONS. IN ADDITION, THE COMMITTEE BELIEVES THAT ORAL PRESENTATION OF RESEARCH RESULTS IS AN INTEGRAL PART OF THE EXPERIENCE THE ASSOCIATION IS ATTEMPTING TO ENCOURAGE WITH ITS AWARD. THE COMMITTEE ALSO RECOMMENDED THAT IN THE INSTRUCTIONS TO JUDGES IT BE MADE CLEAR THAT ILLUSTRATIONS ARE TO BE JUDGED SOLELY FOR THEIR CLARITY AND EFFECTIVENESS, AND THAT JUDGES TAKE INTO CONSIDERATION THE LIMITED FACILITIES AVAILABLE AT MANY ACADEMIC INSTITUTIONS.

THIS YEAR EACH STUDENT SPEAKER RECEIVED A COPY OF THE FORM TO BE USED IN JUDGING PAPERS, AND THEY WILL RECEIVE A SUMMARY OF THE JUDGES' COMMENTS, A PRACTICE WHICH THE COMMITTEE ENDORSED.

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KEYSTONE FIELD TRIP GUIDE AVAILABLE

COPIES OF THE FIELD TRIP GUIDE PRODUCED FOR THE KEYSTONE MEETING OF AASP ARE AVAILABLE AT \$3.00 EACH FROM THE AASP FOUNDATION. THE GUIDE WAS COMPILED BY H. L. OTT WITH ASSISTANCE FROM C. K. CHAMBERLAIN, C. A. DAWSON, P. H. K. GROTH, AND K. R. NEWMAN. THE ROAD LOG HIGHLIGHTS THE GEOLOGY, SCENERY, HISTORY, RESOURCES, AND FLORA ENROUTE FROM KEYSTONE TO DENVER, COLORADO. INCLUDED ARE TWO MAPS IN COLOR AND REPRODUCTIONS OF FOUR HISTORIC PHOTOGRAPHS. THE TEXT INCLUDES ANECDOTES FROM THE EARLY DAYS OF GOLD AND SILVER MINING IN THE AREA AND ACCOUNTS OF ICNOLOGY AND PALYNOLOGY OF LOCAL ROCKS. ORDER FROM: R. T. CLARKE, AASP FOUNDATION, c/o MOBIL R&D CORP., P.O. BOX 900, DALLAS, TX 75221.

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FOCUS

DEPARTMENT OF BOTANY & MICROBIOLOGY
ARIZONA STATE UNIVERSITY

DURING MY EARLIER YEARS ON THE FACULTY AT INDIANA UNIVERSITY (1949-64), MANY OF MY GRADUATE STUDENTS WORKED ON COMPARATIVE MORPHOLOGICAL STUDIES, INCLUDING THE POLLEN OF SUCH FAMILIES AS CANELLACEAE (T. K. WILSON), MYRISTICACEAE (PAT PADEN-PHILLIPS), HERNANDIACEAE (C. F. SHUTTS), LARDIZABALACEAE (A. TAYLOR), AND DILLENIACEAE (W. C. DICKSON). SIMILAR TYPES OF RESEARCH CARRIED OUT DURING THE LATE 60'S AT ARIZONA STATE INCLUDED ANNONACEAE (MAY CHEN), ARISTOLOCHACEAE (T. C. BOWMAN), EUCRYPHIACEAE (T. NEWELL), AND CAMPANULACEAE (O. INCEOGLU). ACCORDINGLY, POLLEN OF THESE NINE FAMILIES IS ESPECIALLY WELL-REPRESENTED IN THE ASU PALYNOLOGY SLIDE COLLECTIONS OF OVER 7,000 VOUCHERED SPORES AND POLLEN SLIDES BELONGING TO SOME 2,500 SPECIES. WE ALSO HAVE SEVERAL HUNDRED SLIDES OF FOSSIL PALYNOFORMS OF VARIOUS AGES IN OUR COLLECTIONS.

EXTANT SPORES AND POLLEN GRAINS OF ALL THE LOWER VASCULAR PLANTS AND GYMNOSPERMS NATURALLY OCCURRING IN ARIZONA WERE DESCRIBED, ILLUSTRATED, AND KEYED BY J. L. WEN IN A M.S. THESIS (1975) INTENDED AS AN INTRODUCTION TO A MODERN SPORE AND POLLEN ATLAS FOR THE STATE OF ARIZONA.

RESEARCH IN PALEOPALYNOLOGY IN OUR ASU LABORATORIES CAN BE GROUPED AS FOLLOWS:

PALEOZOIC: MY OWN STUDIES ON THE DEVONIAN MEGA- AND MICROFLORAS OF ARIZONA WERE INITIATED IN 1968 AND ARE CONTINUING. E. B. BLAZEY'S PH.D. DISSERTATION (1972) CONCERNED THE MEGA- AND MICROFLORA OF LATE PALEOZOIC AGE (WOLFCAMPIAN) FROM THE MOGOLLON RIM OF ARIZONA. KYOKO KREMP (1975) WROTE A M.S. THESIS ON THE PALYNOLOGY OF A LATE PALEOZOIC COAL FROM FOSSIL CREEK CANYON, ARIZONA.

MESOZOIC: ROBERT ROMANS (PH.D., 1969) DESCRIBED THE PALYNOLOGY OF SEVERAL COALS OF UPPER CRETACEOUS (CENOMANIAN) AGE FROM BLACK MESA, ARIZONA. FRED CARTER'S PH.D. DISSERTATION (1975) CONCERNED THE PALYNOLOGY OF THE UPPER CRETACEOUS PINEDALE COAL FIELD IN EAST-CENTRAL ARIZONA. MICHAEL ZAVADA (1977) WROTE A M.S. THESIS DESCRIBING THE PALYNOFORMS FROM THE UPPER CRETACEOUS FRUITLAND FORMATION OF THE SAN JUAN BASIN OF NORTHWESTERN NEW MEXICO.

THREE OF MY CURRENT STUDENTS (JOHN SHANE, JEROME WARD, AND TIM TIMMCKE) ARE COMPLETING THESES ON THE FOLLOWING SUBJECTS: SHANE - PALYNOLOGY AND PALEOECOLOGY OF THE UMIAT DELTA (CRETACEOUS) OF THE NORTH SLOPE OF ALASKA; WARD - PALYNOLOGY OF THE LOWER CRETACEOUS KIOWA SHALE OF KANSAS; TIMMCKE - PALYNOLOGY OF SOME UPPER JURASSIC AND LOWER CRETACEOUS CORES FROM THE NATIONAL PETROLEUM RESERVE NEAR POINT BARROW, ALASKA.

CENOZOIC: ROBERT A. STEWART (PH.D., 1971) DESCRIBED THE PALYNOLOGY OF SOME LIGNITES AND SHALES OF THE WILCOX GROUP (PALEOCENE-EOCENE) OF MISSISSIPPI; CANRIGHT HAS PUBLISHED SOME OF HIS PALYNOLOGICAL STUDIES ON THE MIOCENE COALS OF TAIWAN; CAROL DAWSON (M.S., 1979) DESCRIBED THE PALEOBOTANY AND PALYNOLOGY OF THE OLGOCENE CREEDE FORMATION OF COLORADO.

(FOCUS IS CONTINUED ON P. 8)

OUR PALYNOLOGY LABORATORY IS WELL-EQUIPPED WITH FUME HOODS, CENTRIFUGES, PHOTOMICROGRAPHIC APPARATI, ETC., TO ENABLE STUDENTS TO CARRY OUT RESEARCH ON THE MORPHOLOGICAL, PALEO-ECOLOGICAL, AND BIOSTRATIGRAPHIC ASPECTS OF PALYNOLOGY. BOTH TRANSMISSION AND SCANNING ELECTRON MICROSCOPES ARE AVAILABLE IN OUR DEPARTMENT FOR GRADUATE STUDENT USE. OUR PALYNOLOGY REPRINT COLLECTIONS AND LIBRARY RESOURCES ARE EXTENSIVE. GRADUATE STUDENTS MAY ENTER OUR PALYNOLOGY PROGRAM WITH AN UNDERGRADUATE MAJOR IN BIOLOGY, BOTANY, OR GEOLOGY.

JAMES E. CANRIGHT

UNIVERSITY OF IOWA

THE PALYNOLOGY PROGRAM AT THE UNIVERSITY OF IOWA IS UNDER THE DIRECTION OF RICHARD G. BAKER. IT HAS CONCENTRATED ON QUATERNARY PALYNOLOGY, WITH RECENT CAPABILITY ALSO IN PALYNOLOGY OF PENNSYLVANIAN COALS IN IOWA. THE REFERENCE COLLECTIONS ARE SMALL (ABOUT 1500 SPECIMENS EACH IN THE MODERN POLLEN AND SEED COLLECTIONS) BUT REPRESENTATIVE FOR THE MIDWEST AND ROCKY MOUNTAIN AREAS. PROCESSING FACILITIES AND RESEARCH MICROSCOPES ARE AVAILABLE, AND TRANSMISSION AND SCANNING MICROSCOPES ARE NEARBY AND CAN BE USED BY PALYNOLOGY STUDENTS. RESEARCH IN THE LAB HAS BEEN PRIMARILY ON MATERIALS FROM THE ROCKY MOUNTAINS AND THE MIDWEST, AND INCLUDES THE FOLLOWING COMPLETED THESES AND DISSERTATIONS:

1. MICHAEL BURKART'S DISSERTATION: "POLLEN BIOSTRATIGRAPHY AND LATE QUATERNARY VEGETATION HISTORY OF THE BIG-HORN MOUNTAINS, WYOMING"
2. JUDE GENNETT'S THESIS: "PALYNOLOGY AND PALEOECOLOGY OF SEDIMENT FROM BLACKTAIL POND, NORTHERN YELLOWSTONE PARK, WYOMING"
3. TOM LEGG'S THESIS: "PALYNOLOGY OF MIDDLE PINEDALE SEDIMENTS IN DEVLIN'S PARK, BOULDER, COLORADO" (NOW PUBLISHED IN ALPINE & ARCTIC RESEARCH)
4. KEN VAN ZANT'S DISSERTATION: "LATE AND POSTGLACIAL VEGETATIONAL HISTORY OF NORTHERN IOWA" (NOW PUBLISHED IN QUATERNARY RESEARCH).

SEVERAL STUDENTS AND FACULTY HAVE OFTEN COLLABORATED TO WORK ON PLANT MACROFOSSILS, MOLLUSKS, SMALL MAMMALS, ARCHEOLOGICAL SITES, OR PLEISTOCENE GEOLOGY. ONE EXAMPLE OF POLLEN AND PLANT MACROFOSSIL WORK ON ARCHEOLOGICAL PROJECTS IS THE CHEROKEE SITE, WHICH PROVIDED PALEOENVIRONMENTAL SETTINGS FOR EARLY MAN IN IOWA. THE RESULTS OF THIS PROJECT WILL BE IN A CHAPTER OF A BOOK TO BE PUBLISHED BY ACADEMIC PRESS EARLY IN 1981.

TWO RECENT GRADUATES HAVE LAID AN EXCELLENT GROUNDWORK FOR FURTHER STUDIES IN PENNSYLVANIAN PALYNOLOGY. THE WORK WAS INITIATED BY ROBERT L. RAVN IN COOPERATION WITH A COAL PROJECT SPONSORED BY THE IOWA GEOLOGICAL SURVEY. PART OF HIS EXCELLENT WORK IS PUBLISHED NOW AS TECHNICAL PAPER NO. 66, IOWA GEOLOGICAL SURVEY, "AN INTRODUCTION TO THE STRATIGRAPHIC PALYNOLOGY OF THE CHEROKEE GROUP (PENNSYLVANIAN) COALS OF IOWA." FURTHER WORK IS IN PROGRESS BY RAVN, WHO

IS NOW WITH AMOCO IN NEW ORLEANS. A SECOND M.S. THESIS IS NEARLY COMPLETED BY BARBARA EGNER, NOW WITH AMOCO IN HOUSTON.

THE PALYNOLOGY LAB IS LOCATED IN THE GEOLOGY DEPARTMENT, WHICH HAS 14 FACULTY MEMBERS, ABOUT 60 GRADUATE STUDENTS, AND MORE THAN 100 UNDERGRADUATE MAJORS. B.S., M.S., AND PH.D. DEGREES IN GEOLOGY ARE AVAILABLE.

RICHARD G. BAKER

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