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About the Institute

The Hunt Institute for Botanical Documentation, a research division of Carnegie Mellon University, specializes in the history of botany and all aspects of plant science and serves the international scientific community through research and documentation. To this end, the Institute acquires and maintains authoritative collections of books, plant images, manuscripts, portraits and data files, and provides publications and other modes of information service. The Institute meets the reference needs of botanists, biologists, historians, conservationists, librarians, bibliographers and the public at large, especially those concerned with any aspect of the North American flora.

Hunt Institute was dedicated in 1961 as the Rachel McMasters Miller Hunt Botanical Library, an international center for bibliographical research and service in the interests of botany and horticulture, as well as a center for the study of all aspects of the history of the plant sciences. By 1971 the Library's activities had so diversified that the name was changed to Hunt Institute for Botanical Documentation. Growth in collections and research projects led to the establishment of four programmatic departments: Archives, Art, Bibliography and the Library.

29 May, 1984

Dr. John S. Bridge
Dept. of Geological Sciences & Environmental Studies
SUNY-Binghamton
Binghamton, NY 13901

Dear John:

Glad to have a few minutes with you to bring you up to date on the Oneonta Fm. palynology project. Sorry it was so rushed, but look at the time you saved!

This will also be a reminder re the lithostratigraphic chart you said you'd provide, showing location of samples we've studied so far. Should be invaluable for preparing our abstract and paper for DC.

All the best.

Yours very truly,

Alfred Traverse
Professor of Palynology

AT/et
encl: copy of letter fo Lucy Edwards

(Summary of contents of Traverse, Bridge, Bowers & Schuyler)

Silty rocks from various sedimentary environments, Catskill Magnafacies, south-central New York, are palynostratigraphically placed at the Givetian-Frasnian boundary. Palynoflorules of sediments from different riverine paleoenvironments differ considerably in specific composition, per-gram concentration, and preservation, apparently in complex relationship to sorting, paleoenvironment and diagenesis of the sediments.

Al. Please return a revised? copy
when you have time John.

Bridge

PALYNOSTRATIGRAPHIC ZONATION AND PALEOECOLOGY OF PART OF THE LATE DEVONIAN CATSKILL MAGNAFACIES, SOUTH-CENTRAL NEW YORK

Alfred Traverse (1), John S. Bridge (2), Mark E. Bowers (1) and Andrew Schuyler (1)
(1) Dept. of Geosciences, Pennsylvania State University, University Park, PA 16802
(2) Dept. of Geological Sciences & Environmental Resources, SUNY-Binghamton, Binghamton, NY 13901

21 samples of siltstones, silty claystones and silty sandstones from various sedimentary environments of the non-marine Oneonta Formation of the Catskill Magnafacies were studied palynologically, primarily chronostratigraphically--the rocks are otherwise unfossiliferous. Ten of the samples were moderately to richly palyniferous, yielding palynofloras dominated variously by Geminospora lemurata Balme and other Geminospora spp., Archaeozonotriletes spp., Grandispora sp., Apiculiretusispora plicata (Allen) Streel, Hystrichosporites sp. and Retusotriletes rugulatus Riegel. Also present are many other forms, such as Rhabdosporites langii (Eisenack) Richardson, Samarisporites triangulatus Allen, Dibolisporites farraginis McGregor & Camfield and Chelinospora concinna Allen. The total flora is datable as Givetian-Frasnian boundary, and the floral diversity and richness promise finer chronostratigraphic tuning. Very good information on the sedimentological environments permits analysis of the relation between sedimentary facies and palynoflorules. All ten samples yielding abundant palynoflorules were from channel fills; all eight lithologically promising samples obtained from crevasse channels and crevasse splays, overbank deposits and basal breccias, were barren. Sorting during deposition, preferential preservation of palynomorphs in channels by reducing environments, and destruction in overbank deposits by paleosol development, are probably responsible.

among the factors

deposition processes

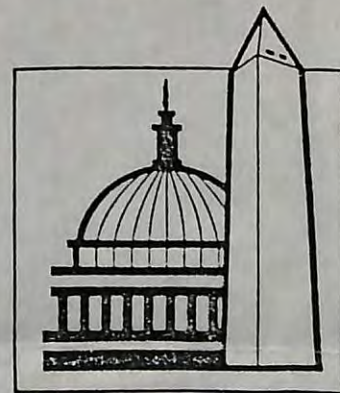
Calicho

1
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3



OFFICIAL ABSTRACT FORM

1984 Annual Meeting
American Association of Stratigraphic Palynologists
October 17-20, 1984
Arlington, Virginia



➤ Title due: May 15, 1984

➤ Abstract due: July 15, 1984 if title received by May 15,
June 15 otherwise!

instructions on reverse

Title: Palynostratigraphic zonation and paleoecology of part of the Late Devonian
Catskill Magnafacies, south-central New York

Author(s) Alfred Traverse, John S. Bridge, Mark E. Bowers & Andrew Schuyler Speaker Alfred Traverse

Speaker's telephone no. (814) 863-3419 home work check if poster preferred

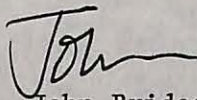
MAIL TO: ➤ Lucy Edwards, U.S.G.S., 970 National Center, Reston, VA 22092
Phone (703) 860-7745

July 31, 1984

The third slide is part of the geological map of New York. The green band in S. W. is the West Falls Group. Around this is a band of purple, the Sonyea Group. The green band around this is the Genessee Group, which mainly comprises the Oneonta Formation. All of these groups in this map area are mainly Catskill Magnafacies and Frasnian in age. That is, the coastline approximately runs down left-hand side of map.

Let me know if you need anything else.

Best wishes,


John Bridge

JB/mr

University Center at Binghamton

State University of New York / Binghamton, New York 13901

Department of Geological Sciences and
Environmental Studies
Telephone (607) 798-2264

July 31, 1984

Prof. Alfred Traverse,
Dept. of Geosciences,
Pennsylvania State University,
Deike Building
University Park,
Pennsylvania 16802

Dear Al,

Just a quick note to discuss abstract and enclosed slides. On the abstract I have numbered three problems:

- 1) The rocks are not unfossiliferous. They contain plant casts and impressions, also trace fossils.
- 2) Should probably read ' ;all ten samples yielding \pm abundant palynoflorules were from channel fills and channel bar deposits; all eight lithologically promising samples obtained from overbank deposits and basal breccias of channel deposits, were barren.' Note that crevasse channel and splay deposits are overbank deposits. Let me know if this is O.K. Incidentally, this distribution of abundant palynoflorules, has interesting implications for preservation potential and timing of diagenesis.
- 3) I don't see how 'sorting during deposition' can be responsible. I wonder if abundance of plants in channel areas is a factor. These points need fuller exploration before we commit an opinion to print.

Enclosed are three slides. One is a generalised geological map of N. Y. State, with the yellow-green color representing Frasnian, and green Famennian. The second is the relevant part of the N. Y. Devonian correlation chart of Rickard, with Catskill Magnafacies shown in red. As you will see, the coastline runs approximately N-S between Deposit and New Berlin for most of Oneonta Formation time.

23 October, 1984

Dr. John S. Bridge
Dept. of Geological Sciences & Environmental Studies
SUNY-Binghamton
Binghamton, NY 13901

Dear John:

Here's the MS as I presented it, plus B&W copies of the (all color) slides--except for two from you that I used. Paper was well received. Chaloner from England came up and said, "Isn't this the project John Richardson was supposed to do?" I said it was, and Chaloner said JR wouldn't care. Hmm.

Also enclosed: xerox of the abstract as per the abstract volume.

Best.

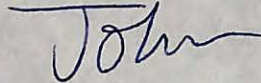
Yours very truly,

Alfred Traverse
Professor of Palynology

AT/et
encl

I'm really looking forward to getting this joint project off the ground, and to having much closer links between ourselves and our students. We should probably talk over the phone about details of the proposal, particularly regarding exactly what the various personnel will be doing and when.

All the best,



John S. Bridge
Associate Professor
of Geology

JSB:kh
Enc.

**University Center at
Binghamton**

State University of New York / Binghamton, New York 13901

Department of Geological Sciences and
Environmental Studies
Telephone (607) 798-2264

March 7, 1985

Professor Alfred Traverse
Department of Geosciences
Penn State University
University Park, Pennsylvania 16802

Dear Al,

Enclosed you will find a revised version of our joint NSF proposal. As you will see I have made rather substantial changes, and more may be in order. Some of the diagrams may require redrafting, and we need to come up with an abstract. Your title sounds alright. You don't need to submit my budget but I have enclosed a copy anyway. At this stage I think it best not to submit the proposal to ACS/PRF. What starting date should we aim for? January 1st, 1986?

You will also find enclosed a list of the samples that we would like run by Travspore, and a location map. As I said, I have \$1000 or so that I can spend on analysis of these samples. Initially I will have a purchase order issued for 20 samples at \$50 per sample (as agreed), and will send further purchase orders as required. While I'm talking business it should be established exactly what is being bought here. My understanding is that, for each sample, I will receive a list of all miospore species present (preferably with relative abundances) and a stratigraphic age that is as precise as possible. Let me know if this differs from your understanding of the arrangement. Also please let me know if you cannot let me have all this data by about mid summer 1985.

Incidentally, I notice that we still do not have full species lists and stratigraphic ages for each of the nine samples that Travspore analysed in 1984. I realise that our joint abstract mentions a variety of palynospecies and gives an overall age as near Givetian-Frasnian boundary. However, these samples cover quite a large stratigraphic interval within the Genesee group, and I would have expected modest differences in miospore assemblages between some of the samples. Am I correct in assuming that Andy Schuyler will be furnishing this information for all of the first 22 samples?

as correspondent

13 - 41 - 85

wp: Mary (cu)
Kid: Stuart (82)

Dr. John S. Bridge
Dept. of Geological Sciences & Environmental Studies
SUNY-Binghamton
Binghamton, NY 13901

Dept. 777
off: ~~607-798-2264~~ : ~~607-798-3960~~
home: ~~607-729-5542~~ ~~777~~ (Prof. Rice
607 shoe place)

Soc. Sec. No. 121-62-7618

36, 28, 42, 34, 2, 24, 3, 26



THIRD INTERNATIONAL FLUVIAL SEDIMENTOLOGY CONFERENCE

Second Circular

Wednesday, Thursday, and Friday
August 7-9, 1985
COLORADO STATE UNIVERSITY
Fort Collins, Colorado

Sponsored by
Department of Earth Resources, CSU
College of Forestry & Natural Resources, CSU
U.S. Geological Survey
Society of Economic Paleontologists and Mineralogists
Rocky Mountain Section - SEPM
Conoco Inc.
Rocky Mountain Energy
Mobil Oil Corporation

Abstract Form

Registration Form

Hunt Institute for Botanical Documentation

**University Center at
Binghamton**

State University of New York / Binghamton, New York 13901

Department of Geological Sciences and
Environmental Studies
Telephone (607) 777-2264

July 24, 1985

Dr. Alfred Traverse
Department of Geosciences
Penn State University
University Park, Pennsylvania 16802

Dear *Al*

This final note is to confirm that we will be meeting in the parking lot of Holiday Inn at SUNY-Binghamton at 8:00 a.m. on Saturday, 3rd August. Those driving to Binghamton on Friday afternoon or Saturday morning will be able to park, close by on the SUNY campus, but must let Liz Gordon or myself have their license plate numbers as soon as possible, preferably over the phone. We will be having a barbecue at my house on Friday afternoon, starting about 5:00 p.m., for those who have arrived by then.

With best wishes,



John S. Bridge
Associate Professor
of Geology

JSB:kh

10 April, 1985

Third International Fluvial Sedimentology Conference
Office of Conference Services
Rockwell Hall, Colorado State University
Fort Collins, CO 80523

Dear Friends:

Dr. John Bridge will be the leader of field trip #1, in conjunction with the abovementioned conference. Dr. Bridge and I have a joint project underway in connection with the subject-matter of the field trip, and he strongly urges a student of mine (A. Schuyler) and me to attend. We cannot because of other problems attend the conference-proper in Colorado, however.

I just talked with co-chairperson Romeo Flores, who feels that there should be no problem with Schuyler and me signing up just for the field trip. I enclose our registration ~~forms~~ and a check for \$340 (please negotiate it promptly or we may lose the \$). The 2nd Circular, under details of the field trip says the fee includes the guidebook. If this is not the case, however, let me know as soon as possible, as we need the guidebook and would pay extra for it if necessary.

Many thanks for your help.

Yours very truly,

Alfred Traverse
Professor of Palynology

AT/et
encl: registration forms and check

REGISTRATION FORM — THIRD INTERNATIONAL FLUVIAL SEDIMENTOLOGY CONFERENCE

Name: Schuyler Andrew
(Last) (First) (Initial)

Affiliation: Department of Geosciences, Penn State University

Mailing Address: 411 Deike Building
(Street)

University Park PA 16802 USA
(City) (State) (Zip) (Country)

Telephone: Business: 814-863-1667 Home: 814-355-9625

Advance Delegate Registration \$85.00 \$ _____
 Advance Student Registration \$65.00 (*) \$ _____
 Late Registration (after July 15, 1985) add \$20.00 to above \$ _____
 Guest Banquet Tickets at \$14.00 each \$ _____
 Abstract Volume and Field Trip Guidebook (1st Set included with registration)
 _____ sets at \$20.00 each. \$ _____

Pre-Conference Field Trips:

Trip 1 \$170.00 \$ 170.00
 Trip 2 \$220.00 \$ _____
 Trip 3 \$270.00 \$ _____
 Second Choice = Cancel or Trip#

Post-Conference Field Trips:

Trip 4 \$95.00 \$ _____
 Trip 5 \$40.00 \$ _____
 Trip 6 \$80.00 \$ _____
 Second Choice = _____ Cancel or Trip# _____

Note: Please register by July 1, 1985 if you plan to participate in a Conference Field Trip.

Civil Engineering Lab Tour - No Cost (enter yes or no) _____

Please check this box if you would like a Colorado Tourist Information Kit

On-Campus Housing:

Arrival Date: _____ Time: _____
 Departure Date: _____ (Check out time is 11:00 a.m.)
 Single at \$20.75/night x _____ nights \$ _____
 Double at \$14.50/night/person x _____ nights \$ _____
 If double, please give name of preferred roommate _____
 (Roommate assignment subject to receipt of forms from both persons)

On-Campus Meals:

Wednesday (Breakfast, Lunch, and Dinner), Thursday (Breakfast, Lunch);
 Friday (Breakfast, Lunch) at \$26.50 (total) x _____ persons = \$ _____
 Total Amount Enclosed \$ _____

Mail registration form to:

OFFICE OF CONFERENCE SERVICES
 COLORADO STATE UNIVERSITY
 ROCKWELL HALL
 FORT COLLINS, CO 80523
 U.S.A.

Method of Payment:

Check/Money Order/Purchase Order
 Visa Mastercard
 Card # _____
 Expiration Date _____
 Signature Andrew Schuyler

(*) Note: To be eligible for Student Rate you must supply a signed letter from the Chairman of your Department on Letterhead Stationary verifying your student status.

REGISTRATION FORM — THIRD INTERNATIONAL FLUVIAL SEDIMENTOLOGY CONFERENCE

Name: Traverse Alfred

Affiliation: (Last) Department of Geosciences, Penn State University (First) (Initial)

Mailing Address: 435 Deike Building

University Park (Street) PA 16802 USA
 (City) (State) (Zip) (Country)

Telephone: Business: 814-863-3419 Home: 814-643-1958

Advance Delegate Registration \$85.00 \$ _____
 Advance Student Registration \$65.00 (*) \$ _____
 Late Registration (after July 15, 1985) add \$20.00 to above \$ _____
 Guest Banquet Tickets at \$14.00 each \$ _____
 Abstract Volume and Field Trip Guidebook (1st Set included with registration)
 _____ sets at \$20.00 each. \$ _____

Pre-Conference Field Trips:

Trip 1 \$170.00 \$ 170.00
 Trip 2 \$220.00 \$ _____
 Trip 3 \$270.00 \$ _____
 Second Choice = Cancel or Trip#

Post-Conference Field Trips:

Trip 4 \$95.00 \$ _____
 Trip 5 \$40.00 \$ _____
 Trip 6 \$80.00 \$ _____
 Second Choice = _____ Cancel or Trip# _____

Note: Please register by July 1, 1985 if you plan to participate in a Conference Field Trip.
 Civil Engineering Lab Tour - No Cost (enter yes or no) _____
 Please check this box if you would like a Colorado Tourist Information Kit

On-Campus Housing:

Arrival Date: _____ Time: _____
 Departure Date: _____ (Check out time is 11:00 a.m.)
 Single at \$20.75/night x _____ nights \$ _____
 Double at \$14.50/night/person x _____ nights \$ _____
 If double, please give name of preferred roommate _____
 (Roommate assignment subject to receipt of forms from both persons)

On-Campus Meals:

Wednesday (Breakfast, Lunch, and Dinner), Thursday (Breakfast, Lunch);
 Friday (Breakfast, Lunch) at \$26.50 (total) x _____ persons = \$ _____
 Total Amount Enclosed \$ _____

Mail registration form to:
 OFFICE OF CONFERENCE SERVICES
 COLORADO STATE UNIVERSITY
 ROCKWELL HALL
 FORT COLLINS, CO 80523
 U.S.A.

Method of Payment:
 Check/Money Order/Purchase Order
 Visa Mastercard
 Card # _____
 Expiration Date _____
 Signature Alfred Traverse

(*) **Note:** To be eligible for Student Rate you must supply a signed letter from the Chairman of your Department on Letterhead Stationary verifying your student status.

TRAVERSE

ALFRED

C 03079

FLUVIAL SEDIMEN

TICKET NO.

HOUSING:

 N/A SINGLE DOUBLE SUITE

ROOM

HALL

COLORADO STATE UNIVERSITY

OFFICE OF CONFERENCE SERVICES
FORT COLLINS, COLORADO 80523
(303) 491-6222

ARRIVAL DATE/TIME

DEPARTURE DATE/TIME

ORIGINAL RECEIPT/CONFIRMATION ONLY (NOT AN INVOICE)
BRING THIS COPY TO REGISTRATION

REMARKS/ROOMMATE REQUEST

NAME: TRAVERSE ALFRED
ADDRESS: PENNSYLVANIE STATE UNIVERSITY
435 DEIKE BLDG.
UNIVERSITY PARK PA
16802

P.O. NO.

CONFERENCE: FLUVIAL SEDIMENT DATE: AUG 7 - 9

CHECK PERSONAL COMPANY NO. 03860690

NO.	REGISTRATION & TECHNICAL FEES ITEMIZED	AMOUNT
	FIELD TRIP #1	170.00

AMOUNT DUE	170.00
PAYMENT	
<input checked="" type="checkbox"/> CHECK	
<input type="checkbox"/> CASH	
<input type="checkbox"/> CR. CD.	170.00
BALANCE DUE	0.00
PAYMENT	
<input type="checkbox"/> CHECK	
<input type="checkbox"/> CASH	
<input type="checkbox"/> CR. CD.	
BALANCE DUE	
CASH REFUND	
TO BE BILLED	
TO BE REFUNDED	

BY BTF 4/30/85
SIGNATURE DATE

BTF 4/30
PAYMENT RECEIVED BY DATE

PAYMENT RECEIVED BY DATE

CASH REFUND BY _____

I ACKNOWLEDGE RECEIPT IN CASH OF THE AMOUNT SHOWN

SIGNATURE DATE

REFUND TO BILL TO

THE PENNSYLVANIA STATE UNIVERSITY
DEPARTMENT OF GEOSCIENCES
PALYNOLOGICAL LABORATORIES
435 Deike Building
University Park, PA 16802
phone: 814-863-3419
fax: 814-865-3191

21 May, 1990

Dr. John S. Bridge
Geological Sciences
Sciences I Bldg., Room 161
SUNY-Binghamton
Binghamton, NY 13901

Dear John:

Thanks for copy of "Final Project Report-98A".

In case you've been trying to reach me, I should report that I've been out of pocket for two weeks, since the end of semester, just when I had been hoping to get on with my work! Reason: had to go to Michigan twice, get my mother taken to St. Louis to a nursing home (near my sister), begin disposition of her property, etc. The good news is that from now on I should be able to cut the annual time investment in Mother's affairs from 2 1/2 months to perhaps a month or so. Keeping up her home, etc., in Michigan was driving me bananas.

As soon as possible I'll get back to working on the samples--Andy has completed the processing. First I must go out to Michigan once again to meet my sister and spend further time on clearing out Mother's house. And I also have a few other personal items that require attention.

Keep in touch! When I retire here, how would SUNY-Bing. like to have a still super-vigorous palynologist on a year-to-year basis?

All the best.

Yours very truly,

Alfred Traverse

AT/et

TO AT

DATE 18 Sept. '90 TIME 3:45

WHILE YOU WERE OUT

M. John Bridge

Of _____

Phone 607-777-4254

TELEPHONED PLEASE RETURN CALL

CALLED TO SEE YOU WILL CALL AGAIN

RETURNED YOUR CALL RUSH

MESSAGE How are you
progressing w. spore
samples? [what samples?]

Signed BT

The Standard Register Company

THE PENNSYLVANIA STATE UNIVERSITY
DEPARTMENT OF GEOSCIENCES
PALYNOLOGICAL LABORATORIES
435 Deike Building
University Park, PA 16802
phone: 814-863-3419; fax: 814-865-3191

20 September, 1990

Dr. John S. Bridge
Dept. of Geological Sciences
161 Science I Bldg.
SUNY-Binghamton
Binghamton, NY 13901

Dear John:

Your phone message reached me, and I tried to return the call, but didn't get an answer.

Regarding the Catskill project here, I got Andy to come in again ~~last~~ last week. We now have all the data and slides, residues, samples, etc., curated and transferred to me. I have determined that the Devonian work must be my research emphasis, probably for most or all of my remaining years as a palynologist.

However, I've got a big problem, as you know. My expectation was that Andy would do most of the microscopy in connection with his Ph.D. thesis. Therefore I undertook and am under contract to Cambridge University Press for another project--editing a book on palynological sedimentation. It is already a year overdue. As a result, I can't devote my attention to the Catskill work until the book is done--sometime in 1991. But I will do it. What more can I say? I know this is hard on you, but it's better to tell the truth.

On the brighter side--I've decided not to retire for at least 5 years (health permitting), despite my recently passed 65th birthday. I have applied for a sabbatical and a Fulbright to study the Catskill materials with Willi Ziegler and his paleobotanist-palynologist, Friedemann Schaarschmidt, in Frankfurt, in 1992. (I should probably try to get some more conodont-possible samples later to work on with Ziegler, as an adjunct to the spores.)

All the best.

Yours very truly,

Alfred Traverse

AT/et

Department of Geological Sciences and
Environmental Studies
Telephone (607) 777-2264

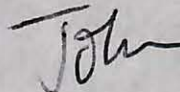
October 4, 1990

Alfred Traverse
Department of Geosciences
Penn State University
University Park, Pennsylvania 16802

Dear Al,

Thanks for your letter of 20th September. I do understand that there are pressures from various directions. It is a shame, however, that the most important and far reaching aspect of our study has been stalled. Perhaps it will be possible for you to work on the samples a little at a time, so that I can have a trickle of data to analyse. Let me know if I can do anything to help. I am still very keen on putting in for a new NSF proposal to continue this work, and especially to search for sections with spores and conodonts (with Kirchgasser?). Anyway, in the meantime, best wishes with your editing project and your sabbatical arrangements. I may see you this Fall, as I need to come down to Penn State to see Rudy. On an unrelated issue, could you please pass on to Paul Richards (and Rudy) that he must reapply for admission to SUNY if he expects to get a Masters degree.

With best wishes,



John S. Bridge
Professor of
Geological Sciences

JSB:kh

THE PENNSYLVANIA STATE UNIVERSITY
DEPARTMENT OF GEOSCIENCES
PALYNOLOGICAL LABORATORIES
435 Deike Building
University Park, PA 16802
phone: 814-863-3419
fax: 814-865-3191

22 October, 1990

Dr. John S. Bridge
Dept. of Geological Sciences & Environmental Studies
SUNY-Binghamton
P.O. Box 6000
Binghamton, NY 13902-6000

Dear John:

Thanks for yours of 4 October, which apparently arrived during the time I was twice out to St. Louis, South Bend, and Michigan, re my mother. She finally died in a hospital in the St. Louis area on 11 October, and was buried in Michigan on 15 October. She was 97 and had been failing since 1987.

As I wrote before, the Devonian project is my no. 1 priority as soon as I get the book project done. As you suggest, maybe even before that I can begin to get cranked up. The termination of constant trips to the Midwest should help. I figure that for the past three years I've spent at least 3 months a year on my mother's problems. I have resolved to attend no scientific meetings until I get back on track.

I'll pass on the messages. Look forward to seeing you if you come. Don't forget you can bunk with us on top of the Mahontango shale (Emsian/Eifelian?--that's what the badly preserved spores seem to say), if you like.

All the best.

Yours very truly,

Alfred Traverse

AT/et

THE PENNSYLVANIA STATE UNIVERSITY
DEPARTMENT OF GEOSCIENCES
PALYNOLOGICAL LABORATORIES
435 Deike Building
University Park, PA 16802
phone: 814-863-3419; fax: 814-865-3191

22 February, 1991

Dr. John S. Bridge
Dept. of Geological Sciences
Science I Bldg., Rm. 161
SUNY-Binghamton
Binghamton, NY 13901

Dear John:

Just to check in again. I have been granted a sabbatical leave for Spring Semester, 1992, and I have a Fulbright. I will be working from late Dec., 1991, to about 1 July, 1992, at the Senckenberg Museum, Frankfurt. Willi Ziegler is the director, and the purpose of my residence there will be specifically to complete work on all the samples that Schuyler and I began in collaboration with you. Willi Z. will be very helpful, and I also can visit Streele in Liège for additional counsel. I predict you'll like the end result. This is a smashing opportunity to do Devonian spores with no teaching, no phone, etc.

Hope you are flourishing.

Yours very truly,

Alfred Traverse

AT/et

THE PENNSYLVANIA STATE UNIVERSITY
DEPARTMENT OF GEOSCIENCES
PALYNOLOGICAL LABORATORIES
435 DEIKE BUILDING
UNIVERSITY PARK, PA 16802
Phone: (814)863-3419; Fax: 814-863-7823

Sent **Faxed to 607-777-2288**

1 October, 1991

Dr. John Bridge
Dept. of Geological Sciences
SUNY-Binghamton

Dear John:

You seem to be about as hard a target to reach, as some people say I am! Have phoned your office, leaving messages repeatedly, and have tried you at home, where I either get a busy signal or no answer. So, I'm resorting to fax.

We are now actually getting some things ready for the sabbatical in Frankfurt, the scientific purpose of which, as you know, is to work up the Devonian materials I've cooperated on with you. I am taking all slides, residues and pertinent literature, etc. Question: are there new developments I should know about, a few additional samples I should process before going, some samples you should send there for me to work on, new data, whatever??

I am still desperately trying to finish the sedimentation of palynomorphs book, get a couple of papers out, prepare a lecture for India (November), as well as to teach my palynology course.

One reason I was trying so hard to reach you is that Betty and I will pass through B. this weekend and could personally pick up things you conceivably might want me to have.

All the best.

Yours very truly,



Alfred Traverse

AT/et

THE PENNSYLVANIA STATE UNIVERSITY
DEPARTMENT OF GEOSCIENCES
PALYNOLOGICAL LABORATORIES
435 DEIKE BUILDING
UNIVERSITY PARK, PA 16802
Phone: (814)863-3419; Fax: 814-863-7823

5 March, 1993

Dr. John S. Bridge
Department of Geological Sciences
Binghamton University
P. O. Box 6000
Binghamton, NY 13902

Dear John:

Yours of 22 Feb. in hand. It's good to have it as a prod. At the moment I'm working on a project from the Bay of Fundy that has been hanging fire even longer--since 1978. I can see the light at the end of the tunnel on that. I should be able to get at your samples soon. Whether in time to help with your current emergency is another question. 200 samples is a lot of samples. OK, of the emergency ones, 106. Also a daunting task.

As you know, I'm not convinced that you have a reasonable idea in thinking that somebody can become a Devonian palynologist by independent study and without either a palynological library, laboratory, or resident palynologist to help him/her. Where do people get ideas like that? It would never occur to you to think that one could do oxygen isotope geochemistry like that.

Anyhow, as far as when it would be convenient for me to confer with you is concerned: doesn't really matter. I have no travel plans until May. In May I could stop in Binghamton to see you all enroute to the Adirondacks. (I will only be spending about 3-4 days up there.)

All the best to you. I am sure you realize that losing Andy was a worse loss to me than even to you. Simply a crushing blow.

Yours very truly,

Alfred Traverse

THE PENNSYLVANIA STATE UNIVERSITY
DEPARTMENT OF GEOSCIENCES
PALYNOLOGICAL LABORATORIES
435 DEIKE BUILDING
UNIVERSITY PARK, PA 16802, USA
Phone: (814)863-3419; Fax: 814-863-7823

11 May, 1994

Dr. John S. Bridge
Department of Geological Sciences, etc.
Binghamton University
P. O. Box 6000
Binghamton, NY 13901

Dear John:

The paper that Andy and I had in press in Pollen et Spores when it went belly-up I revised a bit and reversed the order of the authors (with Andy's consent and understanding) because it became my sole responsibility, and I have had it published in the Senckenberg Courier (Frankfurt a. M.). Unfortunately, as a result of some sort of snafu, I never saw proof. So far I haven't found any big errors that grew out of that, but they did promote Andy to "Dr." Oh, well....

Reprint enclosed. This is a downpayment on the promise to get back to the Devonian one of these days.

All the best.

Yours very truly,

Alfred Traverse

encl

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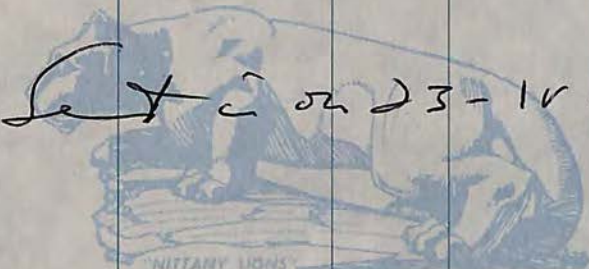
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Those participants not driving to Binghamton should most conveniently fly in and out of Binghamton airport. We intend to provide transport to and from Binghamton airport and SUNY-Binghamton. Binghamton is served well by flights from New York (Empire, Brockway), Pittsburgh (USAir), Boston, Washington and Philadelphia (Brockway). There are two USAir flights out of Binghamton on the morning of August 6, leaving at 8.05 am and 11.30 am, and arriving in Denver (via Pittsburgh) at 11.03 am and 3.17 pm respectively.

The weather in upstate New York in August is fairly warm (in the 80's^o F), and could possibly be showery. As we will not be doing any long-distance walking, I would suggest bringing stout field shoes and light rainwear. It would be advantageous if everyone had a fieldtrip guidebook. For those not registered for the conference these may be obtained at a cost of \$20.00 (includes abstract volume and guidebook) from: Office of Conference Services, Colorado State University, Rockwell Hall, Fort Collins, CO 80523.

Please let me know your travel arrangements as soon as possible, as I must make firm motel bookings very soon. I would greatly appreciate it if, to save time, you could give me this information over the telephone. My office number is 607-777-3960. My home number is 607-729-5542. I look forward to hearing from you soon.

Yours sincerely,

John Bridge

J. S. Bridge

JSB/mr

AL, Please excuse form letter

**University Center at
Binghamton**

State University of New York / Binghamton, New York 13901

Department of Geological Sciences and
Environmental Studies
Telephone (607) 798-2264

*file Bridge
corresp.*

June 25, 1985

Professor Alfred Traverse
Dept. of Geosciences
Penn. State University
University
PA 16802

Dear Field-Trip Participant,

Thank you for showing an interest in our Catskill Magnafacies fieldtrip. Liz Gordon and I are looking forward to seeing you. The purpose of this note is to let participants have more information on the purpose of the trip, travel arrangements, and costs.

Over the three days of the field trip we will be examining the complete range of lithofacies types, and therefore depositional environments, which are represented in the Catskill Magnafacies. Many of the sedimentary features we will be demonstrating have never been described before. We will be emphasising how the depositional environments and deposition rates varied in time and space throughout the Upper Devonian regression, and in particular their extrabasinal controlling factors (tectonism, climate, eustasy). Outcrops will include the classic stream sections at the scenic Catskill Front, and large, relatively new, roadcuts and quarries.

The trip will leave the State University of New York at Binghamton at 8.00 am on Saturday 3rd August and return to Binghamton around 6 pm on Monday 5th August. For those attending the conference, Tuesday 6th August is available for travel to Colorado. Everyone who attends the fieldtrip will be spending two nights in the Catskill Mountains at a motel near Phoenicia. The cost of the motel with two persons per room is approximately \$45 per person for the two nights. Those who are arriving in Binghamton from out of town on August 2nd and are attending the conference will need to spend the nights of August 2nd and 5th in Binghamton. I will make reservations at the Holiday Inn near SUNY-Binghamton, again with double occupancy, at a rate of approximately \$65 per person for the two nights. Travel costs of \$25 per person are also anticipated. Therefore, the actual cost of the trip will vary from approximately \$70 for some people to \$130 for others. Note that these costs do not include meals. Food will be available at reasonable prices throughout the fieldtrip. Those who have registered and paid in advance for this trip will most likely be receiving a refund. Those who do not intend to attend the conference and have not paid in advance for the trip should let me have the \$25 travel costs as soon as possible, and be prepared to take care of their own motel bills.

University Center at Binghamton

State University of New York / Binghamton, New York 13901

Department of Geological Sciences and
Environmental Studies
Telephone (607) 798-2264

November 12, 1985

Professor Alfred Traverse
Department of Geosciences
Pennsylvania State University
University Park, Pennsylvania 16802

Dear Al,

Under separate cover I have just sent you some samples from Davenport Quarry, as promised. The box includes six samples labelled as follows:

1. Carbonate.
2. Immediately above carbonate, to west of quarry.
3. Just below carbonate, to east of quarry.
4. Top of quarry.
- 5,6. Base of quarry (one of these may not actually be from this location, but I'm not sure which).

We are fairly convinced that the carbonate was deposited in a freshwater marsh/lake. Of the samples for palynological analysis, 2 to 4 are from overbank deposits, but samples 5 and 6 are from the top of a channel deposit. The alluvial plain was probably very close to the paleoshoreline. Stratigraphic position is basal Oneonta Formation (?Givetian-Frasnian).

I hope you can look at these samples fairly soon. Also, I am looking forward to receiving the results from the other samples you are working on. Best wishes.

Sincerely,



John S. Bridge
Associate Professor
of Geology

JSB:kh

20 November, 1985

Dr. John S. Bridge
Dept. of Geological Sciences & Environmental Studies
SUNY-Binghamton
Binghamton, NY 13901

Dear John:

Yours of 12 November arrived as Andy and I are flat out (when we're not in class, faculty meetings, etc.) trying to finish the famous 27 samples! One of them is just full of forms we haven't encountered before, and we'll have to study that one in greater detail later. But we should have the basic report very soon.

Now about the 6 samples on their way here--sounds very interesting indeed. However, I have, in this order, to:

1. write up a Triassic project I spoke on at recent AAPG (personal work).
2. do the microscopy on a bunch (125 samples) Travspore undertook for Peabody Museum-Yale: Paleocene-Eocene.
3. process a series of samples from the Triassic of Virginia, contracted from Travspore by Emory University.

To make a long story short, these new samples of yours will be a while, unless:

1. we're funded by NSF for Devonian work--then I can direct the research assistant to process 'em, and it'll happen, or
2. you've got \$ to contract with Travspore, so I can hire a student to process the samples, and pay PSU for lab time and supplies.

One way or another, it'll get done, but if you have \$ for Travspore, it'd certainly expedite things.

Yours very truly,

Alfred Traverse
President

AT/et

18 March, 1986

Dr. John S. Bridge
Dept. of Geological Sciences & Environmental Studies
SUNY-Binghamton
Binghamton, NY 13901

Dear John:

As you may also have heard, we were turned down by NSF. I was stunned, as I thought it a very good piece of work. I fear that paleo, including paleopalynology, is not on an inside track at NSF at the moment. Just in case you didn't get them, ~~here~~ are copies of the reviews. Mostly we got good response. The one snake who knifed us clearly didn't know what he was talking about in saying the work isn't innovative. The palynomorph-sedimentation stuff alone is hot stuff.

What to do? Should we rewrite and send back to NSF. I've done that with success before. Could we do better with ACS? I look forward to getting some encouragement from you, as I find it very discouraging.

The Feb. conference with McGregor went super well, and Andy and I are now digesting the results.

Hope all is well with you. Regards to Mary.

Yours very truly,

Alfred Traverse
Professor of Palynology

AT/et
encl: xeroxes of reviews

3 July, 1986

Dr. John S. Bridge
Dept. of Geological Sciences & Environmental Studies
SUNY-Binghamton
Binghamton, NY 13901

Dear John:

I had a 2 1/2-hour conference with Dr. Orr, "our" guy at NSF, on Monday. He is very concerned that we at PSU-palynological labs are without NSF funding, and was very encouraging about your-mine revised proposal. He agrees with me that it is undesirable that the proposals have to be so specific, but says it's a current fact of life.

I'll be getting to rewrite ASAP.

Yours very truly,

Alfred Traverse
Professor of Palynology

AT/et

23 July, 1986

Profeseor John S. Bridge, etc.

Dear John:

Here it is. I am sending only the parts that you need to review and alger (especially page 3 on old ~~h~~proposal, now pp. 2-4). In other words, not the bibliography (now much enlarged), not the plates, not my vita, not my budget.

However, please send YOUR vita, budget, special statements, if any, and additions ~~thx~~ the literature cited (if any) necessiated by your changes.

We'll put the whole thing gogethere and send it in. Please let us know how many copies you need for your bareaucracy, and I'll have them adde and sent to you.

Cheers,

rec'd 10⁵⁰, 25-VII-86

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4 August, 1986

Dr. John Bridge
Dept. of Geological Sciences
SUNY-Binghamton
Binghamton, NY 13901

Dear John:

Here's one copy of the complete proposal, and 25 copies of the plates (made from the original color plates). You can make xerox copies from the copy, except for the plates. I'm sending in a prelim. copy to Bill Orr at NSF today.

We'll be gone 10-14 August (at AIBS, Amherst, MA).

Hope this is AOK. Best.

Cheers,

Alfred Traverse
Professor of Palynology

AT/et
encl: proposal

Carroll

TO AT
DATE 1-XII-86 TIME _____

WHILE YOU WERE OUT

M John Bridge
of _____
Phone _____

TELEPHONED PLEASE RETURN CALL
CALLED TO SEE YOU WILL CALL AGAIN
RETURNED YOUR CALL RUSH

MESSAGE call Bill over
first. CNSF will
fund project but
only (2/3) of amt.
what to cut.

BT
Signed _____

*returned call, but
still have to reach
Dm.*

THE PENNSYLVANIA STATE UNIVERSITY
DEPARTMENT OF GEOSCIENCES
PALYNOLOGICAL LABORATORIES
435 Deike Building
University Park, PA 16802
(814)863-3419 or (814)865-6393

Dr. John S. Bridge
Geological Sciences
Sciences I Building
SUNY-Binghamton
Binghamton, NY 13901

Dear John:

I look forward to getting the slides (or just xerox copies of originals would be o.k.).

Andy Schuyler will expect to hear from you re sampling and study from one of the long sections.

As promised, here's a list of our absences. The departmental office will have phone numbers, if necessary.

31 May - 10 June	c/o McGregor, GSC, Ottawa; Eagle Bay, NY
19 June - 26 June	Indianapolis, IN; St. Joseph, MI
9 July - 10 August	c/o International Botanical Congress, W. Berlin
11 August	c/o F. Schaarschmidt, Senckenberg Museum, Frankfurt am Main, W. Germany
12 August (back home)	
15-19 August	Devonian Symposium, Calgary

Many thanks for all your help.

Best.

Yours very truly,

Alfred Travers^e
Professor of Palynology

AT/et

THE PENNSYLVANIA STATE UNIVERSITY
DEPARTMENT OF GEOSCIENCES
PALYNOLOGICAL LABORATORIES
435 Deike Building
University Park, PA 16802
(814)863-3419 or (814)865-6393

29 January, 1987

Dr. John S. Bridge
Dept. of Geological Sciences
SUNY-Binghamton
Binghamton, NY 13901

Dear John:

Best laid plans didn't work out. For one thing, Slingerland's baby was born yesterday, and I had big trouble getting RLS to read the abstract.

So, I've had to send it in--but, if anything is big wrong with it, I could send in a revised version. Let me know asap.

Yours very truly,

— Alfred Traverse
Professor of Palynology

AT/et

enclome ; abstr.

ca. 1988

**University Center at
Binghamton**

State University of New York / Binghamton, New York 13901

Department of Geological Sciences and
Environmental Studies
Telephone (607) 798-2264

Dear Al,

Enclosed is a copy of Catskill Magnafacies article for the fieldtrips guidebook, as I promised. It is only the first draft, but final version is not much different.

Molly Miller is currently on sabbatical at Rosaliaer Polytechnic Institute, and is primarily working on the trace fossils in the fluvial to marginal-marine transition of the Catskill Clastic Wedge near Albany, N.Y. She is not seriously involved in ~~stratigraphic~~ facies analysis, and the title of her grant is very misleading. We are, of course, in contact, so she knows what we are doing.

Looking forward to hearing from you regarding joint grant proposal.

Best wishes

John Bridgl

P.S. Hope Andy Schuyler is progressing well with samples I left.

e. Technical Description of Project and Results

A complete summary of the research to date may be found in the paper recently submitted to Pollen et Spores. Therefore, a copy of this manuscript is attached.

You have this already

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b. Publication Citations

- Traverse, A., J.S. Bridge and A. Schuyler 1987. (Abstract)
Palynostratigraphy and paleoecology of parts of the Catskill
Magnafacies of New York and Pennsylvania. 2nd Int. Symposium
on the Devonian System, Calgary, Alberta, Canada - August
17-20, 1987: Program and Abstracts, 229.
- Schuyler, A. and Traverse, A. 1988. Sedimentology of
miospores in the Mid- to Upper Devonian Oneonta Formation,
Catskill magnafacies, New York. (Abstract) 7 International
Palynological Congress Brisbane Abstracts, 148.
- Traverse, A. and Schuyler, A. Fortschritte in der
Palynostratigraphie der "Catskill magnafacies", im Süden des
Bundesstaates New York, USA. (Abstract) Arbeitskreis für
Paläobot. Palynol., 9-12 May, 1989, Krefelt, West Germany.
- Traverse, A. & A. Schuyler. Palynostratigraphy of the
Catskill and part of the Chemung magnafacies, southern New
York State I. (Submitted to Pollen et Spores, 1989).

The palynoflora recovered from the Oneonta Formation is assignable to the late Givetian/early Frasnian (Middle/Late Devonian) boundary. This age corresponds to the Contagisporites optivus-Samarisporites triangulatus spore zone of Richardson and McGregor (1986), which would place the base of the Oneonta Formation lower than that (Frasnian) proposed by Rickard (1975). Based on the palynoflora, the sediments represent no more than four million years of fluvial deposition.

Since evidence suggests that channel bar, channel fill, and overbank environments should have all received spores, it is probable that a penecontemporaneous, but post-depositional degradation of spores occurred in the barren deposits, especially in the overbank deposits. The periods of hot, dry climate during deposition of these sediments, coupled with a lowered water table as distance from the stream channel increased could have produced a sufficiently oxidizing environment to destroy spores.

Concentration could be controlled by a number of factors. Modern palynomorph sedimentation studies indicate that spore/pollen sedimentation in flowing water is governed by the same factors controlling sedimentation of hydraulically equivalent inorganic particles. Although no direct correlation was exhibited between grain size as measured in this study and spore concentration, there is no reason to doubt that concentration would be initially controlled by selective sorting. This would be modified to a lesser or greater extent by the influence of local vegetation on the input of spores into the depositional environment. If the spores that were produced were largely destroyed by oxidizing conditions, then the makeup of the local vegetation would have a lesser role than other factors in the concentration of spores per gram of sediment.

ABSTRACT

The absolute abundance of miospores was studied for twenty-six siltstones from various fluvial depositional environments of the Middle to Late Devonian Oneonta Formation - a part of the Catskill Magnafacies of New York State. Four out of the five overbank samples proved to be barren of spores. Channel bar samples were usually productive and showed a range of miospores/gram of sediment (concentration) from zero up to 4779. Channel fill samples were usually productive but contained less than 700 spores/gram.

Thin sections were made from the samples, and a grain size study was done to determine if present texture was correlated with spore concentration. A statistical regression analysis indicated that no significant correlation existed.

Ferric and ferrous iron concentrations in the samples were assayed to determine if the oxidation levels of the sediments are related to the presence/absence and concentration of spores. Regression analysis indicated that no significant relationship existed between the ferric/ferrous iron value (degree of oxidation) and the presence/absence or concentration of spores.

Attachment a. - Thesis abstract

The Pennsylvania State University
The Graduate School
Department of Geosciences

Sedimentology and Paleoecology of Miospores from the Middle
to Upper Devonian Oneonta Formation: Part of the Catskill
Magnafacies, New York State

A Paper in Geology

by

Andrew Schuyler

Submitted in Partial Fulfillment
of the Requirements
for the Degree of

Master of Science

May 1987

I grant the Pennsylvania State University the nonexclusive right to use this work for the University's own purposes and to make single copies of the work available to the public on a not-for-profit basis if copies are not otherwise available.



Name

NATIONAL SCIENCE FOUNDATION
Washington, D.C. 20550

FINAL PROJECT REPORT
NSF FORM 98A

PART I—PROJECT IDENTIFICATION INFORMATION

1. Institution and Address Pennsylvania State University Department of Geosciences University Park, PA 16802	2. NSF Program Division of Earth Sciences	3. NSF Award Number EAR-8618268
	4. Award Period From 2/15/87 To 7/31/89	5. Cumulative Award Amount \$78,800
6. Project Title Collaborative Research: Palynostratigraphic Zonation and Palynomorph-sedimentation in the Catskill Magnafacies of New York State		

PART II—SUMMARY OF COMPLETED PROJECT (FOR PUBLIC USE)

Our part of this joint project (with John S. Bridge, SUNY-Binghamton) had the primary objective of providing a palynostratigraphic zonation scheme for the Catskill magnafacies of New York State, rocks for which very little other biostratigraphic information is available. Spore assemblages from these rocks, and from some coeval marine Chemung magnafacies sections, were extensively investigated, and correlation with palynostratigraphic schemes based on faunally-controlled sections in other parts of Euramerica was accomplished. Palynologic evidence shows that the sections range from mid-Givetian to mid-Frasnian in age, crossing the Middle-Upper Devonian boundary, a span of about 7 million years. Because the project was carried out jointly with Dr. Bridge's sedimentology group, we had good control on the environment of deposition for each of the 38 sections studied. Channel deposits proved to be comparatively rich, and overbank deposits poor, in spore content, though the concentrations are much less than for comparable Cenozoic sediments.

PART III—TECHNICAL INFORMATION (FOR PROGRAM MANAGEMENT USES)

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c. Data on Scientific Collaborators	X				
d. Information on Inventions	X				
e. Technical Description of Project and Results		X			
f. Other (specify)					
2. Principal Investigator/Project Director Name (Typed) Alfred Traverse	3. Principal Investigator/Project Director Signature <i>Alfred Traverse</i>			4. Date 1/26/90	

THE PENNSYLVANIA STATE UNIVERSITY
DEPARTMENT OF GEOSCIENCES
PALYNOLOGICAL LABORATORIES
435 Deike Building
University Park, PA 16802
phone: 814-863-3419; fax: 814-865-3191

13 April, 1990

Dr. John S. Bridge
Dept. of Geological Sciences & Environmental Studies
SUNY-Binghamton faxed to: 607-777-4000
Binghamton, NY 13901

Dear John:

Here is the material you requested. Will be in touch as soon as
Andy and I have our conference.

Best.

Yours very truly,



Alfred Traverse

AT/et
encl: NSF Final Report and attachments



STATE UNIVERSITY OF NEW YORK AT BINGHAMTON

Binghamton, New York 13901

Department of Geological Sciences and
Environmental Studies
Telephone (607) 798-2264

December 9, 1980

Professor A. Traverse
Department of Geology
The Pennsylvania State University
University Park, Pennsylvania 16802

Dear Sir:

Prior to moving to Binghamton in 1979 I had been engaged in sedimentological research on the Upper Devonian red beds of Kerry Head in Southwest Ireland (see enclosed paper)*. I have now also started looking at the sedimentology of some of the Catskill facies rocks in the vicinity of Binghamton, but in my studies so far have not come across any palynological zonation work on the area. It strikes me that this would be crucial as the primary means of biostratigraphic zonation and correlation in these largely unfossiliferous red beds.

Doug Grierson suggested that you might know of any relevant research completed or in progress. I would also be interested to know if you have any interest in this important yet apparently neglected area. I intend to expand my studies of the Upper Devonian fluvial/marginal marine rocks of this classic area, and in fact already have a graduate student working on some potentially spore-bearing fluvial sequences.

I look forward to hearing your reply.

Yours sincerely,

John S. Bridge

John S. Bridge
Assistant Professor
of Geological Sciences

JSB:kh

* In last issue of Geological Journal for 1980 - will send reprint when they arrive.

file

6 January, 1981

Dr. John S. Bridge
Department of Geological Sciences
SUNY-Binghamton
Binghamton, NY 13901 USA

Dear Dr. Bridge:

Yours of 9 December was forwarded to me here. Good to know of your interest in Catskill sediments--it is an area of considerable interest to me. As you may know, one of my former students (Jim Warg) and I published a paper on some such work quite a while ago. Another student (Bob Wilson) was on the verge of finishing a Ph.D. on that, plus other sediments in central Pennsylvania on up to Pennsylvanian, when he broke our hearts by quitting (to take an oil company job). Another student (John Stolar) did a D.Ed. with a nice thesis on the megaspores--should be published but probably won't be unless I do it. I have now a part-time student (Virginia Mutti) who is working on Middle and Upper Devonian spores, but it goes slowly--eventually she'll get into Catskill. Of course, you know, I am sure, of my paper with Maurice Streel on the Norseshoe Curve section--published about two years ago--I still have reprints at home. Of John Richard's work you must be aware. Also, you probably know of Leonard Eames' work on beds equivalent to Catskill in Ohio (Dr. Leonard E. Eames, Amoco Production Co., P.O. Box 591, Research Ctr., Tulsa, OK 74102).

Off the top of my head, that's about it. Next fall why don't we get together?--it's only a half day's drive between our respective places. (We have a family summer place in the Adirondacks and pass through Binghamton fairly regularly--that is, once a year!).

Best wishes.

Yours very truly,

Alfred Traverse
Visiting Professor

AT/et



STATE UNIVERSITY OF NEW YORK AT BINGHAMTON

Binghamton, New York 13901

Department of Geological Sciences and
Environmental Studies
Telephone (607) 798-2264

May 16, 1983

Professor A. Traverse
Department of Geology
The Pennsylvania State University
University Park, Pennsylvania 16802

Dear Professor Traverse,

It is now over two years since I wrote to you regarding palynological studies of the Catskill magnafacies of New York State. During that time the detailed sedimentological studies of my students and I have progressed very well. I now have a PhD student and three or four Masters students actively working in the area. Unfortunately I have had little success in persuading palynologists (e.g. John Richardson) to participate in this project in a meaningful way. That is to say, I have received expressions of interest but no firm commitments to perform the required work in a reasonable time span.

We are now reaching a stage where biostratigraphic correlation is critical to correlate our measured sections. We have potentially spore bearing gray siltstones; all we need now is someone to work on them. I write to you again in the hope that you and your students might be interested in working on this project. I feel that we need someone in the U.S., preferably as close to the region as possible.

The project is currently funded by the American Chemical Society (Petroleum Research Fund) and Gulf Oil Foundation. I have just requested funding for another couple of years; I may well have graduate student stipends and fieldwork expenses available for 1983/84 and/or 1984/85 depending on the success of these funding requests.

Please let me know if you are interested in any way, and perhaps we can get together and talk^a about it, and possibly see some rocks this summer. I look forward to hearing from you.

Yours sincerely,

John Bridge

John S. Bridge
Associate Professor
of Geology

JSB:kh

make card

1 June, 1983

Dr. John S. Bridge
Dept. of Geological Sciences &
Environmental Studies
State University of New York
Binghamton, NY 13901

Dear Dr. Bridge:

Thanks for yours of 16 May. Good to hear again.

As you sense, there is no lack of interest here---we have a tradition of work in the area (Warg & Traverse, Streeel & Traverse, etc.). As you also obviously understand, the gosh-almighty buck is critical! I have at the moment seven doctoral students (plus a post-doc). All expect the Great Spirit (=AT) to raise money to support them. Teaching assistantships are reserved by the department for others, and, besides, they are drying up.

Now, to be more positive, why don't we: 1) collect some samples together which I could run, or have somebody run, to see how promising the story is; 2) discuss possible ways we could fund a student for a master's or Ph.D. project in collaboration with us. I have, for example, an incoming student in September (M.Sc. from U. of Toronto) who might be persuaded to join the project, if there is a good prospect for an assistantship. I also have a part-time graduate student I might be able to poke up to work on this (she is already working on the middle Devonian around here), and other possibilities exists--(I may be getting a Chinese--PRC--post-doc in September, but you never know until they arrive!). She is very good, and I think this would be an excellent project for her, because it doesn't involve extensive travel.

Summer schedule is filling up. I know I will be in the field (Maine) 17-24 June and (AZ, NM, UT) 27 July-12 August. Under our new semester schedule which starts this year (ugh!), we begin the Fall Semester on 14 August (!). How about a couple of days in mid-July? You name it.

Yours very truly,

Alfred Traverse
Professor of Palynology

AT/et

8 August, 1983

Dr. John S. Bridge
Dept. of Geological Sciences & Environmental Studies
SUNY-Binghamton
Binghamton , NY 13901

Dear John:

Sorry--but the proposed visit of 15 August is washed out--I have to go out to Michigan to care for my mother. I'll call you ASAP to arrange another date.

Best wishes.

Yours very truly,

Alfred Traverse
Professor of Palynology

AT/et

Table 2

Traverse Field No.	Location, etc.	Nature of Residue	Palynoflora and Provisional Age-Fix
T-796 83 - 35	"Otego locality" of E.G.; 1 mi. E of Otego exit, I-88 (Oneonta Fm.)	Richly organic; many wood fragments; well-preserved and numerous palynomorphs	<u>Dibolisporites</u> sp.; <u>Grandispora</u> sp., <u>Cyclogranisporites</u> sp., etc. Generalized Frasnian flora, needs more study. (Early Famennian also possible.)
T-792 83 - 36	As 83 - 35, base of chute channel, ca. 100 m. N of 83 - 35	Richly organic; very richly palyniferous; many specimens severely carbonized	? ^{<u>Belanuspora</u>} <u>Grandispora</u> completely dominates, but there are also <u>Ancyrospora</u> fragments, <u>Archaeozonotriletes</u> , many others. Early Famennian?
T-798 83 - 37	"E. Unadilla locality" of E.G.; under ss ledge, ca. 4 m. above road (SW lane of I-88)	Limited organic residue but very richly palyniferous, well preserved and very numerous spores	Dominated by several species of <u>Archaeozonotriletes</u> and <u>Geminospora</u> . Many of spores in tetrads. (Late?) Frasnian
83 - 38	As 83 - 37, NE lane of I-88, ca. 3 m. above road. Channel fill of lower ss body	Organic matter carbonized; spores very difficult to prepare, not numerous and degraded.	? <u>Cartagisporites</u> !! Lofin!! Buck Frasnian V
83 - 39	"East Guilford locality: of E.G. N of int. of Onango Co. No. 35 & NY No. 8; siltstone layer in ss. Overbank deposits	Very little organic residue; no palynomorphs	-----
83 - 40	As 83 - 39, within channel fill; higher in outcrop	Considerable organic residue, few spores	<u>Archaeozonotriletes</u> spp. and <u>Dictyotriletes</u> . Would guess Frasnian
83 - 41	As 83 - 39, ca. 3 m. above it	Very little organic residue, almost no spores	-----
83 - 42	As 83 - 39, ca. 3 m. above it; conglomerate material	Considerable organic residue, but poorly preserved and few spores	Some <u>Grandispora</u> sp. specimens seen, but age-fix would require study of more sample (another maceration, of larger amount)
T-799 83 - 43	"Unadilla locality" of E.G. on I-88, 30 m. NE of entrance to cemetery,	Considerable organic residue, but spores much broken up, though numerous. Another maceration is worth trying (with modified technique)	<u>Archaeozonotriletes</u> spp., <u>Dibolisporites</u> sp., <u>Ancyrospora</u> sp.; Frasnian

split
to Mark Bower
on 16-J-84

File: J. S. Bridge
over

Report on 9 outcrop-samples collected with John S. Bridge, Elizabeth Gordon and others, 15 October, 1983, in south-central New York

I. Maceration technique: (H₂O washes omitted)

Table 1

1. Crushed to .5 cm.
2. 20% HCl
3. 52% HF
4. Sieve on #3 Schott sintered-glass filter-funnel
5. ZnCl₂ (sp. gr. 2.0) separation
6. Oxidation (1 pt. con. HNO₃, 2 pts. sat. KClO₃ sln.)
ca. ½ hour
7. 10% KOH, 15 min.
8. Sieve as in step 4
9. Mount in glycerin-jelly.

II. Comments:

These mudrocks were mostly \pm palyniferous, samples 35-37 and 43 richly so. The spores are, however, rather carbonized and require special handling for that reason. The spores are, for example, very brittle. The low palynomorph content for 83-42, despite high organic content, is perhaps related to the comparatively high carbonate content of the sample (high CaCO₃ is always bad news). Most of the samples contained very little or no CaCO₃.

The palynofloras of samples 35-37 could be easily studied in systematic detail, providing a very certain stratigraphic fix. Samples 40, 42-43 are also datable, but would require considerable experimentation with the processing technique.

The age of all samples is clearly Frasnian-Famennian, per Table 2. At this writing I am not sure whether the rather different, diverse, and easily studied floras of 35, 36 and 37 bespeak stratigraphic difference or "ecological sorting" (biofacies)--very interesting. I am inclined to believe samples 35 and 37 are latest Frasnian and that 36 is early Famennian, but very careful study at the specific level would be required to pin this down for, say, publication.

1 November, 1983

Dr. John S. Bridge
Dept. of Geological Sciences & Environmental Studies
SUNY-Binghamton
Binghamton, NY 13901

Dear John:

Sorry I forgot about reprints. Am sending a batch of things--
two of direct interest and a few others just to let you know what
sorts of things I do.

Best wishes.

Yours very truly,

Alfred Traverse
Professor of Palynology

AT/et

7 December, 1983

Dr. John S. Bridge
Department of Geological Sciences & Environmental Studies
SUNY-Binghamton
Binghamton, NY 13901

Dear John:

Here is the promised "scorecard". It was my feeling that we need to come up with a prediction-scale for field use, to prevent wheel-spinning. This card could even be so used? It costs too much money and time to collect, transport and process worthless samples.

Do you have any general comments I could have on why you think it turned out this way? I must say sample 37 was no surprise as #1-- just the sort of fudgy siltstone that has often been a "winner". But much of the rest of it is puzzling. Can we use a lithologic-predictor?

Yours very truly,

Alfred Traverse
Professor of Palynology

AT/et
encl: board

23 January, 1984

Dr. John S. Bridge
Dept. of Geological Sciences & Environmental Studies
SUNY-Binghamton
Binghamton, NY 13901

Dear John:

Just a news report--I have a senior undergrad doing his
required senior paper on "our" samples. Thought you'd be interested
as in evidence of our continuing commitment to our mutual palynostratigraphic problem.

Best as always.

Yours very truly,

Alfred Traverse
Professor of Palynology

AT/et

P.S. What did you think of the little "chart" of productive lithology?

27 January, 1984

Dr. John S. Bridge
Dept. of Geological Sciences & Environmental Studies
SUNY-Binghamton
Binghamton, NY 13901

Dear John:

Just to confirm that Andy Schuyler will see you at 10:00 a.m. on 10 February. Andy was the top student by far in my intro-palynology course in Fall Semester. I emphasize this as he is very quiet and might not greatly impress you on first meeting.

So Andy and Mark Bowers will both be working on your-our samples!-- great.

Keep in touch. Best to Mary. Also to Ms. Gordon if she hasn't backed off a cliff yet.

Yours very truly,

Alfred Traverse
Professor of Palynology

AT/et

8 May, 1984

Dr. John S. Bridge
Dept. of Geological Sciences & Environmental Studies
SUNY-Binghamton
Binghamton , NY 13901

Dear John:

As you will probably recall, we discussed my presenting a paper at AASP meetings (17-20 Oct., in DC) on our joint efforts in the Catskill sediments. The title was due this week, so when I discovered that you are in Nebraska, I decided I'd have to fire a title in without your advice. I enclose a copy of the letter. The next deadline is the abstract, due by 15 July. We can change the title, order of listing of the authors, and whatever else, when we do the abstract. My two students, Bowers and Schuyler, have done a good job (copies of their papers to you later), and my next step is to confer with McGregor over slides, etc., probably in early June. Schuyler probably will be admitted as a Master's Candidate, and I want him to work on this project for the thesis, so we need to discuss that too.

Best wishes.

Yours very truly,

Alfred Traverse
Professor of Palynology

AT/et
encl

TO AT

DATE 15 May '84 TIME 10 a.m.

WHILE YOU WERE OUT

M. John Bridge

of _____

Phone 607-798-3940

TELEPHONED PLEASE RETURN CALL
CALLED TO SEE YOU WILL CALL AGAIN
RETURNED YOUR CALL RUSH

MESSAGE Told him you
would call right
back.

worked on Calamus
River & Webster modern

Signed BT model

The Standard Register Company