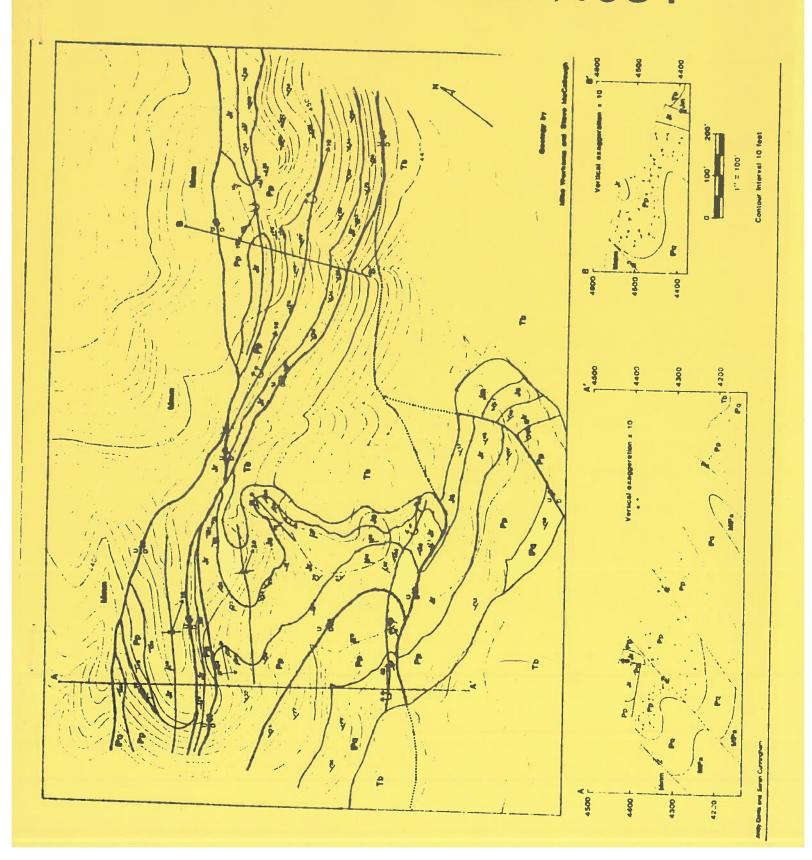
GVSC GEONEWSLETTER VOLUME 5—FALL, 1981



GREETINGS

Since the last newsletter in the spring of 1980, the Department of Geology has been on an economic-emotional rollercoaster - up when we had the good fortune to attract Gary Jacobs here from Penn State to fill the geochemistry position, down when administrative blunders and a weakening state economy encouraged Gary to leave Grand Valley for a job in industry, up again when we received permission to rehire, and now down again when that permission has been withdrawn. The short range outlook then is for us to go with four faculty members into a future made uncertain by the continuing slump in the Michigan economy. The irony for us is that the gloomy local forecast contrasts so vividly with the bright outlook of the profession. We survive by focusing on the latter rather than the former.

Despite the disappointment about the geochemistry position, the Department remains in fundamentally good health with 50 majors engaged in courses, research and social activities as before. We have a growing awareness of our alumni as your numbers grow and as the news of your accomplishments and your visits back here remind us of the rich heritage in geology that was established here by faculty and students. Current faculty and students find in you both a sense of pride and reasons for pressing onward when the going gets tough. So stay in touch; we need you.

DON'T FORGET THE CHRISTMAS PARTY, SATURDAY, DECEMBER 26th. 8 p.m. - midnight

About the Cover Illustration

The geological map on the cover is part of a senior research project completed by Mike Werkema, '81, and published in the 1981 Montana Geological Society Guidebook, p. 183. It is a detailed plane table-alidade map of a right-reverse fault zone in Jefferson County, Montana in the transition zone between the Central Montana Structural Salient (McMannis, 1965) and the South-western Montana Zone of Folds and Thrusts (Rupel, 1981).

Mike Werkema is currently a graduate student at Western Michigan University pursuing the M.S. Degree in geology.

This Newsletter is Dedicated to the Scholarship Fund Donors of the Department of Geology

One of the most positive ways that former students, faculty and friends have benefited the Department of Geology is through contributions to the Edward L. Tremba Geology Scholarship Endowment. We pause here to recognize these donors and to say a sincere "thank you" for your support.

Edward L. Tremba, Jr.	Bill Neal
Mr. & Mrs. Edward Tremba	Tom Hendrix
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The endowment has a current balance of \$3200. with the first award (\$300.) made to Craig Swanson. Our goal is to reach the \$4000. mark by the end of the academic year. If you would like to help us reach that goal, please make your checks payable to:

Edward L. Tremba Geology Scholarships and send them to Dr. T. E. Hendrix, Department of Geology, Grand Valley State Colleges, Allendale, MI 49401.

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"ABOUT THE FACULTY"

As usual, both past and present geology faculty seem to be excessively busy. So much so in fact that the following rather incomplete collection of faculty sketches is indeed "sketchy". As you will notice, there is a considerable time span covered in the "current" messages from faculty that appear below. Nonetheless, it should all be "news" because none of it has appeared in earlier GVSC Geonewsletters. Because it was my (Norm's) responsibility to collect and organize the input from other faculty, I hope no one is offended by what has been omitted, but on the other hand, I hope any omissions will only prompt more complete input from faculty for future Geonewsletters.

"From Bill"

Since the last newsletter, I've been hither and yon. From July '80 to July '81 I was in residence at Duke University continuing work on the preparation of citizen's guides to barrier islands. Together with Orrin Pilkey and expert coastal geologists for the various Atlantic and Gulf Coast states, we hope to produce a series of ten to twelve volumes. Right now the score remains at one. The project continues under the support of the Federal Emergency Management Agency after earlier funding from NOAA's Coastal Zone Management program through Sea Grant. For me its been an opportunity to return to writing and field visits to the coast in North and South Carolina, Virginia, Georgia, Alabama and Mississippi.

In August of 1980 I attended a three-week intensive short course on Depositional Systems at the University of Southern California. We spent approximately five days in the field which was the highlight of the course for me. The net result is input into our "soft-rock" courses. My backlog of interests suggests that I'll have no trouble keeping occupied with geology for some time to come.

I've especially enjoyed seeing our alums in my travels, at the GSA meetings in the last two years, and those of you who stop by the department to visit. Your continued interest and the various ways many of you have shown support to the department are important to its future. The Administration's failure to fill the geochemistry position is a major set back to our curricula and depth. It is difficult to stay on our feet at times, but we're doing our damdest! Best regards

It seems like its been such a long time since the last newsletter - maybe that's because it has been. The blame is mostly on my shoulders, these things seem to be such bears to get out. I pleaded sabbatical so that I could get out of overseeing this one. Well, here's the abbreviated story of my life over the past 12-2 years. Hope you appreciate it because, afterall, I am supposed to be on sabbatical.

Looking back on it now, last year (1979-80) seems pretty dull. That may sound terrible in light of the two major field trips and one regional GSA meeting I attended, not to mention the East-Central Section NAGT meeting we held here on campus (see separate account of the latter). But, everything is relative (Rinstein, 1905) and my sabbatical experiences of this year loom larger at the moment. The two trips were to the Upper Peninsula (Mineralogy) and the Smokies (Petrology) For those of you who remember El Firestation de Negaunee, that's where we stayed on the U.P. trip. Sad to say, that was the last year it will be available to college groups due to the high heating costs due to the encroaching glaciers. On that trip we also camped one night at Copper Harbor. The Smokies trip over Spring Break took us across the Smokies and as far south as Murphy, N.C.

This year - Fall Semester sabbatical - lots of things have happened. I attended LABCON-81 at O'Hare Exposition Center where I ran into Brenda VanderVelde. My trip to O'Hare started at 2 a.m. in a car and ended when I returned at midnight. Brenda, travelling for Sun Chemical, flew over from Muskegon in 40 minutes and was home by 5 p.m.! She was kind enough to buy an old prof lunch which made me feel a little better about it.

Other meetings that I attended were one on Space Technology at Central Michigan University, the Detroit Mineral Show, and the national GSA in Cincinnati. There's another account of the GSA trip in the newsletter but I should mention how pleased I was at the turnout for the FIRST GVSC cocktail party at a national convention. Tom Bee had a dealer's room and display at the mineral show in Detroit which he was kind enough to share with me (at his expense) for two nights lodging. My only worry was that I might roll over in the night and take out three expensive pseudomorphs in the process. Are you still wondering how I could afford all this travel?

I've also played student this term in order to get the recharge thats so important for a teacher's continued enthusiasm. Sitting in a Digital Electronics course taught by Harold Larson in Physics, has been my humble attempt to "get into" microcomputers. To further that aim I also attended a NSF Chatauqua on microcomputers in Memphis. There is a real need to begin introducing these in our curriculum where there are so many two and three-dimensional applications.

I also enjoyed a course on small particle identification at the McCrone Institute in Chicago. We didn't get to work on the shroud of Turin (McCrone did, though) but when it was all over I had learned a number of new techniques in microscopy and had gained an appreciation for all those little small particles out there - yes, even pollen, wiseguy(s).

Interspersed with all of this has been the Craters of the Moon research. Most of that is in the writing stage and its been slow - and painful, but oh so necessary.

As an aside, I even took on a creationist from MSU in a debate. It demanded what seemed like an inordinate amount of time and added a few gray hairs but I think I'm a better geologist and teacher for it.

Sandy is still at H & H Plastic and has found personnel work both interesting and demanding. Two of the little (!?) Lefebvres are at Grand Valley and one is a junior in high school. We have a new deck on the back of the house so when you're around the area, come try it out. Best wishes to all of you.

"From Tom"

SELECTION SENSON

One month ago when my 1971 Oldsmobile (157,000 miles) gave me signals that it might not last much longer, I headed for the car lots, consoled by the knowledge that at last I would be doing something concrete to help the failing Michigan economy. First I checked the prices of new cars. One week, two bottles of aspirir and three bourbon bottles later, I returned this time with greatly diminished expectations. A "new" 1978 Oldsmobile is now in my garage and a very clear understanding of why Michigan is in such sad financial shape is now in my head. A revitalized oil and gas industry is one of a very few bright spots in the Michigan economy.

Fortunately our toils in the basement of Loutit Hall remove as much of the day from the cares of the business world and we seem to have enough to do in the department to keep us happily engaged. My own activities since the last newslette, include teaching 100, 111, 112, 311 and 490, a stint in Montana with the Indiana University Geologic Field Station, publication of four scientific papers and one abstract, consulting work with the Montana Bureau of Mines and Technology, continuation of my work with the U.S. Geological Survey as Executive Secretary of the NAGT-U.S.G.S. Cooperative Summer Field Training Program, and director of the NAGT Summer Field Course Clearinghouse Service. The last job is a new one designed to put students looking for a suitable field course late in the spring in touch with camps still seeking students. The vigorous response (110 requests) suggests it is filling a real need.

Last summer (1981) I took the summer off for the first time in my 22+ year teaching career and, among other things, revised the 311 structure practicals. This year's class was so appreciative that the bruises, puncture wounds and other scars will hardly be healed by the beginning of the Winter Semester! Three point problems remain a mystery to students, however, no matter how I arrange them. Where have I gone wrong, Marland?

I have been pleased to see that over sixty percent of our students last year elected to go to graduate school and that all of them eventually received financial aid of some sort. It's too early to know what this year's group will do but early signs suggest that at least sixty percent will try the graduate school route.

"From Norm"

I'm still continuing (supposedly finishing) phase one of my North Alaska Range Project — a 5-year program of mapping and dating the glacial record of the north-central Alaska Range in order to define the best geological settings for discovery of early man sites. The project has been exciting and challenging, but also excessively time consuming, so I'll be satisfied to "wind it down" this year. Thus far the project has produced M.S. theses for three students at Southern Illinois University, including GVSC grads Al Werner and Chris Waythomas. Several other students, including GVSC grads Ann Bijkerk and Scott Bowen, have also participated in the project. When the papers are finished for the NARP, I'm looking forward to some smaller-scale mapping projects in the Brooks Range for the Alaska State Survey.

On the "home front", our most exciting event of the year was the purchase of some land on the north shore of Hamlin Lake, near Ludington. (Hopefully, I'll continue to pull in enough consulting projects, such as the work I'm doing on the Alaska natural gas line and hydro projects for the Alaska Power Authority, to afford building a cabin in the near future.) In any case, we really look forward to boating, fishing, hunting, and good family times on "our land" in the near future.

Without further comment on the present, I'd like to include my last two "historical" preparations for the Geonewsletter — why waste all that writing effort? In any case, I hope you find the following to be entertaining, and I wish you the best for the holiday season.

Ten Brink's "Update"

For once I had something ready in advance! When Dick requested a note on "current activity" for an abbreviated Geonewsletter, I had the following "ramblings" all pre-typed and ready to hand to him -- the surprise of such promptness darn near made Dick faint dead away. Of course the "current" status of my contribution could be questioned. I wrote the following "ramblings" for a planned 1979 newsletter (which never quite happened). When the 1980 newsletter was compiled (during my sabbatical leave) my ramblings were irretrievably buried in the paper stratigraphy of Bill's office. Nonetheless, when Bill finally unearthed my old letter, I had fun re-reading what I was thinking and predicting about the department two years ago I hope it may have some memory-jogging entertainment value for some of you as well.

Some Rambling Thoughts About GVSC, Geology and Me. Norm Ten Brink, 1979

As I've pondered and mused over what interesting, humorous, intellectual and profound thoughts should comprise this missive to you veterans of foreign and domestic campuses, two lines of thought have gradually evolved. First, this letter will be at least as interesting, humorous, intellectual and profound as any I've eve written; i.e., it hopefully will not be so dry and boring as to prevent the dedicate from reading all the way through it. Secondly, my mind keeps autosuggesting a strikingly new and novel organizational structure for an annual newsletter letter -a chronological approach, dealing first with changes in the department during the past year, then current activities, and finally some prophetic utterances on the future. How's that for originality? (I wonder if I've been working on glacial chronologies for too long?) Because it seems too complicated for my writing style to handle, I'll forego the proper stratigraphic procedure of putting the oldest event at the bottom and the youngest event at the top of this letter, and I'll begin instead with a few comments about changes during the past year.

One thing that hasn't changed is my absolute sense of punctuality. In fact, it's only 5:15 p.m. and I have until 6:00 p.m. tonight to submit this masterpiece to the newsletter staff. (If you are reading this, I was obviously granted special dispensation.)

The biggest and best change of the year is undoubtedly the addition of Tom Hendrix as the "new" (actually slightly used) structural geologist on our faculty. Tom has only been here a short time, but he already has contributed more positive ideas, attitudes, suggestions, organization and enthusiasm than the "average" faculty member could muster in a full year (meaning non-GVSC geology faculty members by "average", of course). On top of that the guy has the experience and

wisdom to know what he's talking about as well as the sense of humor to make it enjoyable. (Such talents, combined with those of Wild Willy and Not-So-Docile Dick do make me dread department meetings, however — I can't win many arguments anymore, and as recorder I have to compile a small book after every meeting). Seriously, Tom's arrival represents a giant step toward our goal of excellence in undergraduate geological education.

Well that takes care of the change(s) during the past year. If you're lucky, I'll be equally selective about current events and prognostications for the future. On second thought, there have been many important changes during the past year which I should mention. For example, everything in the department (at least everything I use) was inventoried, cataloged and neatly stored in appropriate places during the summer. The result of such commandable effort is that everything has changed places with everything else (no new storage space being provided, of course, just reshuffling of the old space) so I haven't been able to find anything since I returned from Alaska this fall. Now that's change! Well, I did find the pocket stereoscopes in a drawer marked "Paulin Altimeter", and by expeditious use of our index file card system I was able (in a mere 2 hours) to locate the overhead transparencies neatly tucked away on a shelf labeled "Field Trip Guidebooks," Eastern U.S.". Enough on changes (except to mention that the paper stratigraphy in Bill's office has grown by approximately one Era) and on to current activity.

After a few moments of careful deliberation, I've decided that I really don't have a thorough enough knowledge of what's going on around here to give fair coverage to all of the really interesting things that other people are doing. Therefore, to avoid offending anyone with inadequate press, I'll "modestly" tell you what I'm doing and you can read the rest of the Newsletter to find out what "they" are doing.

Basically I am knee-deep in the midst of doing what I most enjoy — arctic glacial geology. Last summer was undoubtedly the most rewarding and productive field season I've had since I joined the department. The entire 3-month field season was spent mapping and stratigraphically describing the glacial record along a 150-mile wide section of the north flank of the central Alaska Range, centering on the Mt. McKinley National Park area. By means of helicopter, Super Cub plane, 4 WD and shanks mare my 4-man team, including GVSC senior Chris Waythomas, was able to reconstruct much of the glacial and related history of one of the most beautiful areas in North America. (Besides that, the salmen fishing was great and I found time for a successful moose hunt in early September.) If there's any profession other than geology in which I could be paid as well for doing what I love most, I'd sure like to find it!

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Turning directly to the future (on the same altruistic and modest note of the preceding comprehensive summary of current activity), I'm going back to Alaska next summer. Even if the hardrockers don't like "dirt" geology, the National Geographic Society and National Park Service do. Of course, I didn't put the salmon fishing and the moose hunt in my report to them, but they're happy enough with the geologic results of last summer to foot the bill for another project (including GVSC junior Ann Bijkerk and senior, Al Werner).

After I've written up the results of the entire 3-year North Alaska Range
Project during my sabbatical next year, I'll include a more serious and informative
summary for the Geonewsletter. (Actually, it's a 2-year project because the first
1977 year was an epic Lewis and Clark style scientific disaster led by an archeologist on horseback - right, Scott?) At any rate, it is now my own glacial geologic
project, the aim of which is to reconstruct the glacial and related history of the
North Alaska Range in order to (a) define the best potential early man sites and
(b) reconstruct the glacial-climatic environments at the time(s) early man entered
and lived in interior Alaska. Before this gets too serious I'd best get on to some
concluding prophesies. (Oh, I almost forgot a momentous current event — I bagged
a deer with my bow and arrow on October 15th at 4:05 p.m. in a pouring rain. My
4-year old, Andy, cheered, Dick hissed and booed, and my wife said, "oh my gosh, th
freezer is already full of moose.")

The following prophesies are listed in obfuscating order of linear importance:

- 1. Wild Willy (scurrilously known as "Heavy Mineral Hubert") will rediscover the Precambrian basement underlying the stratigraphic column of paperwork in his office within one year after giving up (screaming "no" to) the chairmanship.
- Richard the Rockhard will at last be able to teach "the complete" petrology course when we change to the semester system and he institutes two new 10-hour courses titled igneous petrology and metamorphic petrology.
- 3. Within one year of pandimonium after switching to semesters, someone in higher administration will discover that it would have been more sensible to correct the quarter-system problems by curriculum revision than to have created more new problems with a whole new semester-based curriculum. (We might even discover that in the geology department).
- 4. "Too Late Ten Brink" will finally write a geomorph lab manual during winter quarter 1979 because the publisher advertised its release for summer 1979.
- 5. A new young geochemist will be selected and arrive by fall 1979, and he or she will inherit the role of departmental recorder.
- 6. I'll be in Menlo Park, California at the USGS Branch of Alaskan Geology on sabbatical next year (probably the year that the San Andreas Fault hits an 8.5 on the Richter Scale).

- 7. Some day Bette Weerstra will tell the administration to put their .75 cents an hour secretary 19 ratings in their collective ears and retire to the rigors of her woodland resort.
- 8. If we all work with the greatest possible enthusiasm and dedication at the geologic professions we love so dearly, we may be as lucky as John Lucke. We can retire from our lousy jobs and see the world!

"From Johnny"

The following letter from John Lucke was written in response to Dick's request for newsletter input last spring. I didn't quite dare hit Johnny for new input so soom after failing to use his previous effort, so, with my apologies, Johnny, I've included the following.

Hurrah for your coming "Newsletter", but I wonder what happened to Bill's "History of the Geology Department" planned a few years ago and for which I contributed mucho!?

Anyway - have you seen my "Impressions of a Naturalist"? It is a great effort to stimulate interest in the very young - probably sparked by good old Mt. St. Helens. Too bad you had to miss Atlanta G.S.A. especially because you thereby missed the super exhibit by the U.S.G.S., both movies and stills.

What about Cincinnati 2-5 November? Grand Valley should have a large delegation there because the G.S.A. will probably never (in this generation of students) again meet so near their home base!! If there should be any interest in having me talk to students and/or general college group either enroute to Cincinnati or return therefrom, we can probably arrange such aerial detour, but let us know as early as you can. The enclosed list is my major "activity" and I love doing it, but I wouldn't want to keep too busy and, God knows, travel is not getting cheaper,

Very best to all.

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"From Jack"

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Jack Henderson is continuing his work in the far north for the Canadian Geological Survey. He plans to return to the arctic this coming summer to begin new mapping projects. One or two of our students will again join Jack as field assistants (contingent on funding). In addition to his continued interest in running, Jack has been practicing his carpentry skills with the addition of a greenhouse to the family home in Ottawa.

Personally, 1980 was the year of "survival". We made it through 2 automobile accidents without serious injuries. The last one was quite severe (approximately \$3000 damage to our 79 pick-up). Presently, we (Rose, Chris, Todd, Brett, and Jason) are fully occupied with house painting, feeling well, and enjoying each other.

Professionally, I am immersed in Eniwetok Atoll studies once again. We are presently having some seismic reflection data tapes reprocessed following preliminary computer processing by the fielding organization, Fairfield Industries. They collected the seismic data in January-February, 1980, so we are pretty much on schedule.

I wish everyone well, especially all those students (hopefully former students) with whom I shared a great experience. The faculty and Bette must be working under excessive stress now that the state has tightened its financial squeeze.

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"From Gary"

Karen, Lucas, and I are all doing fine out here in Kennewick, Washington. We are expecting another child in late March so we should have a busy summer. In the fall, Karen will probably either go back to work or perhaps do some graduate work.

I am Senior Geochemist for the Basalt Waste Isolation Project of Rockwell Hanford Operations. I am involved in determining the geochemical behavior of radionuclides in the basalt - groundwater environment. It is an interesting challenge, and I enjoy applying geochemistry to a somewhat different problem.

Karen and I both miss Western Michigan and Grand Valley in particular. We really enjoyed our stay in the area even though it was short-lived and not exactly smooth-sailing at all times. We both wish the best for Grand Valley and hope it can reach the potential we think it has as an educational institution.

"From Bette"

There haven't been any career changes for me in the past 11 years. I'm still sitting in the same office, at the same desk, and enjoying it just as much as in the beginning. I especially enjoy it when the alums come back to visit and pop in 201 to say "hi". My best to you all.

RECENT FACULTY PUBLICATIONS

As a new item in the Geonewsletter, we have decided to list "current" publications by the existing GVSC faculty. Please forward your own reprints or titles, and next year we'll start an alumni publication list, which should be quite impressive by now.

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Edward Tremba Geology Scholarship Endowment

Since the spring 1980 newsletter over \$1000, has been donated to the Edward Tremba Geology Scholarship fund, bringing the total to over \$3200. and allowing the department to award the first Tremba Scholarship to Craig Swanson ('82). With your continued generous contributions we can make this an annual award. We are shooting for \$4000. by the end of the current academic year. Won't you help us reach it? Section 12

Students in Geology Holding Scholarships, 1981

- Tremba Scholarship Craig Swanson
- II. GVSC Honors Scholarship Lauryl Lefebyre Gregg Swayze
- III. GVSC Upper Level Merit Scholarship Janet Tower Ingrid Verhagen
- GVSC Grant Mark DeKruyter
- V. Geology Scholarship

Lorraine Alcott Susan Bol Rich Christensen Susan DeBoer Mark DeKruyter Lauryl Lefebvre

Jerry Naski Ron Sheets Gregg Swayze John Tweddale Ingrid Verhagen Mark Wallinga

- VI. Michigan Competitive Scholarship Gregg Swayze
- NAGT Summer Field Course Scholarship Ingrid Verhagen VII.
- NAGT-U.S.G.S. Cooperative Summer Field Training Internship Gregg Swayze VIII.
 - Tulip City Gem and Mineral Society Scholarship Lorraine Alcott IX.

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Geology Majors, Fall Semester 1981

Alcott, Lorraine	Massulo, Laura
Bartnik, Pat	McCollough, Steve
Bilsky, Larry	Melchert, Gary
Bol, Susan	Naski, Jerry
Campbell, Blaine	Prusinowski, Sally
Campbell, Judy	Roussin, Carolyn
Christensen, Richard	Sheets, Ron
Cousineau, Tim	Slaughter, Dana
Covert, Paul	Sorvari, Judy
Dean, Brian	Swanson, Craig
DeBoer, Sue	Swayze, Gregg
DeKruyter, Mark	Thomas, Pam
Freeland, John	Tower, Janet
Gallagher, Michael	Tweddale, John
Gilbertson, Curtis	VanderMeulen, Dean
Henderson, Robert	VanderPeyl, Leonard
Hunsberger, William	VanFarowe, Brian
Jones, Bruce	Verhagen, Ingrid
Knop, Joe	Versluis, Chad
Lefebvre, Lauryl	Viger, Suzame
Leonard, Tambria	Wallinga, Mark
Linder, James	Wilson, Gregg
Lyons, Billie	Wood, Sally
Mark, Joe	Youngs, Rosemary

	Field Camps - Summer 1981	
Name	Summer Field Camp	Site
Pat Bartnik	University of Alaska	Alaska
Andy Siersma		
Dean VanderMeulen		
Susan Bol)	Oklahoma State University	Colorado
Nancy Demorest		
Suzanne Pearce	Ball State University	Black Hills
Judy Sorvari	Northern Arizona University	Arizona
Ingrid Verhagen	Indiana University	Montana

1981 Graduates - Their Destinations

The department lost eleven talented, emergetic majors to graduation since December 1980, and will send an additional two on to better things this December, 1981. As before, a majority of our graduates have set graduate school as their immediate goal with eight of the graduates or soon-to-be graduates enrolled or committed to graduate work in 1981-82.

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Larry Flynn holds the distance record as a graduate student at the University of Alaska, Fairbanks. Larry is following a "hard rock" program at U.A. and last summer served as the T.A. in the U.A. summer field course. Steve Aungst, a December 1980 graduate is now living in Denver, Colorado where he works as a mudlogger for Exlog Company. Jeff Coleman also works for Exlog out of Houston. Jeff was here in October to recount his experiences in the Texas gulf coast region with Exlog. Nancy Demorest has opened a new GVSC chapter at Boston College where she is learning more about sedimentary rocks, proper eastern ways, and eastern men, not necessarily in that order. Suzanne Pearce and Craig Shoemaker have joined Sheryl Hoving, Chris Waythomas and Rick Stolarz at Southern Illinois University in Carbondale, Illinois to form the largest GVSC contingent in any graduate school. As winter descends on Western Michigan the SIU group reports of weather still in the 60's. Thanks folks!

Dawn VanderZouwen has become a Texas Aggie where she is pursuing a geophysics program. Dawn was co-author of a paper on quartz grain shape analysis at the GSA meetings in Cincinnati in November. Way to go, Dawn! Mike Werkema, now a graduate student majoring in structural geology at Western Michigan University has also been in print recently as co-author on a paper about a right-reverse fault zone. This paper was published in August in the 1981 Montana Geological Society Guidebook. Recent word has it that Mike has been awarded a fellowship at WMU for the Winter Semester 1982. Pete Versluis is also working for Exlog in their offshore-gulf operations. Joe Chase, after a short stint with an independent oil company in Ohio, is currently a victim of the recession. Anyone have a spot for a good oil man?

Bruce Geldersma is in a holding pattern working for a party store in Grand Rapids and looking for geological employment in Western Michigan.

GVSC Geology Club News

The 1980 Geology Club officers were Steve Aungst, Suzanne Pearce and Lorraine Alcott. When Steve graduated in December, Suzanne took over as president. In early October the Club sponsored a Baby Picture Contest. Club members were asked to bring in baby pictures of themselves and everyone had fun trying to figure out who was who. Prizes were given to the person who did the best job of matching pictures with names and also the sexiest and cutest baby. In case any of you are wondering who the winners in those two categories were, it was Nancy and Ingrid respectively.

The annual Christmas party, held on December 27 at the Allendale Meadows Clubhouse, was a great success, and I believe everyone had a good time. In March the Geology Club sponsored a Cosmathon. On two consecutive Saturdays, the entire sequence of Carl Sagan's Cosmos was shown. Spending six hours sitting in Loutit viewing Cosmos resulted in a few sore rearends, but in between shows everyone got up, ate popcorn, and stretched their legs. Door prizes of minerals were given out and Suzanne happened to win the grand prize of native copper. You never did tell me how you managed to rig the contest, Suzanne!

Throughout the year the Club held many parties but the grand finale was held at Susan's in early May. The usual gag gifts were given out to the graduating seniors, but this year the seniors decided to get even and give gag gifts to the professors. All the professors seemed to be pleased with their gifts, but Norm's gift was something he can really use. He was given a customized hunting coat, and believe me Norm certainly will be noticed in the field! One highlight of the evening was the song "We are Geologists" sung and composed by none other than Mike Gallagher. Later on in the evening, around a great campfire, all the goodbyes were made. Thanks Susan for having the party at your place; it was a nice ending for a good year at Grand Valley.

6th ANNUAL GEOALUMNI CHRISTMAS PARTY

Another highly successful Christmas party was held on December 27, 1980. major changes were the time and place. The closing of the Campus Center between Christmas and New Years made it difficult meeting in that convenient time slot. To solve this dilemma, Hal Byram offered the party room at Allendale Meadows Trailer Park. We accepted and had no regrets - as a matter of fact, we intend to repeat it this year.

Seventy-four attended, 26 of whom are alumni of the Grand Valley Geology Department, At least a half-dozen other alumni who are friends of the department or spouses/friends of geology alumni also came to help us celebrate our 6th Annual GeoAlumni Christmas Party. Those who attended are listed below. If your name was omitted it was inadvertent but write and tell us and we'll list you twice next

Lorraine Alcott

Dave Anderson

Steve Aungst

Larry and Mary Austin

Tim and Mary Jean Baker

Tom Bee

Wals

Rhoda Burgess

Chris and Bonnie Byle

Hal Byram and guest, Karen

Eric and Elaine Christrup

Jeff Coleman

Sue DeBoer

Leslie Degnon

Nancy Demorest

Larry and Mary Kay Fegel

Larry Flynn

Shirley and Simon Francis

Mike Gallagher

Jack and Barbara Hall

Tom, Nina, Susan and Lori Hendrix Al Werner

Sheryl Hoving

Paul and Julie Kampa

Monica Lack

Dick and Sandy Lefebvre

Lauryl Lefebyre

Marlene and Don Leistico

Nancy Mackiewicz

Joe Mark and guest, Mary Golub

Linda Martin and guest, Bill Burgess

Dale Mason

Steve McCollough

Mike and Carol Morris

Bill and Mary Neal

Ginny Peterson

Dave and Glenda Rogers

Craig Shoemaker

Andy Siersma

Rick Stolarz

Mike and Carol Swayze

Norm and Shirley Ten Brink

Ron Tem Harmsel

Doug Thorpe

Jane Tower and guest, Joby Robinson

Patty Videtich

Jim and Bonnie Walters

Bette and Jack Weerstra

Mike Werkema and wife

Lynn Wolfe

Jeff Wollette and wife, Mandy

1981 Run for Funds

"Now, here, you see, it takes all the running you can do, to keep in the same place. If you want to get somewhere else, you must run at least twice as fast as that."

from Jabberwocky by Lewic Carroll

Committee To be to

Scholarship fund past \$3000. by running 1/4 mile laps for an hour in Lubbers
Stadtum on April 11, 1981. On that fateful Saturday, we met with other campus
groups - round and round we went while the music played on and our energy played
out. With the help of the many contributors listed below, \$201.13 was added to
the fund which goes toward the education of promising geology students.

The Tremba Scholarship Fund now stands at \$3441.70, thanks to the following students, staff, families, friends and geoalumni.

Dick Lefebyre

Sponsors:"

Ron Tem Harmsel Craig Schriber Patty Videtich Mark Bishop Mike Morris Michael Matthews Dan Verwoert

Lauryl Lefebvre

Sponsors:
Shirley Francis
Linda Martin
John Dombrowski

Jerry Naski

Sponsors: Gerald Naski David Anderson

Craig Shoemaker

Sponsors:
Diane Pyatt
Randall Shoemaker
Clinton Shoemaker

Ronald Sheets

Sponsors:

Cindy Paul
George King
Patti Harteg
Robert Miller
Karen Stahley
Stanley Stromswold
Henry Bjorkfelt
James Mumm
Elton Sheets
Jeff Horwood
Schroeder Insurance

Gregg Swayze

Sponsors: Al Werner Lorraine Woodard

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1981 East-Centrel NAGT Meeting

On May 15-17 the GVSC Geology Department acted as the host institution and organizer of the 1981 East-Central NAGT meeting. As any of you who have been involved in such an undertaking are well aware, a major effort was required of all of us to successfully conceive, plan and carry out such a task.

Approximately 75 college and secondary school teachers, geological survey people and students attended the meeting Saturday with a full complement of 40 on the Sunday field trip. The following page is included in the newsletter to give the alumni who did not attend the meeting at least a brief overview of the meeting events.

The meeting focused on the "Valders Problem" and it indeed is gratifying to have helped bring together the current researchers who are involved in resolving the outstanding glacial-stratigraphic problems of the Great Lakes region. Despite the heat of the arguments between symposium participants, a significant bit of light actually was focused clearly on resolution of the "Valders Problem".

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1981 EAST-CENTRAL NAGT

SYMPOSIUM ON THE VALDERS PROBLEM

16 May 1-5 p.m.
123 Manitou Hall
Grand Valley State Colleges
Norman W. Ten Brink, Coordinator

¥.		Agency into any I'm Life
1:00-1:30 p.m.	Original Interpretations and Age Assessments of the Two Creeks Forest Bed and Valders Till	
1:30-2:00 p.m.	Glacial Crand River Terraces and Relationships Between the Glenwood Shoreline and "Valders Till" — Initial Definition of the "Valders Problem"	Donald F. Eschman VUniversity of Michigan
12. 12. 12. 12. 12. 12. 12. 12. 12. 12.	and the second s	ALL THE TANK OF THE PARTY OF TH
2:00-2:30 p.m.	Proposed Resolution of the "Valders" Problem" — Definition of the	Feurga ourserger's
Edean mother sever	.Greatlakean Substage	. e. 3 %.
2:30-3:00 p.m.	Till Stratigraphy in Eastern Wisconsin and its Implications for Resolution of the "Valders Problem"	Darid W. Wickerson
3:00-3:30 p.m.	Coffee Break	
3:30-4:00 p.m.	Mineralogy of Glacial Tills and Lacustrine Sediments Under Lake Michigan and the "Valders Problem"	Herbert D. Glass Illinois State Geological Survey
4:00-4:30 p.m.	Late Wisconsin Till Sheets and Clay Mineralogy, East Shore of Lake Michigan	Lawrence D. Taylor Albion College
4:30-5:00 p.m.	Alternative Views of the "Valders Problem"	*W. Hilton Johnson Univ. of Illinois & *Jerry A. Lineback Illinois State Geolog- ical Survey

5:00-?p.m. Questions and Discussion

^{*}Jerry Lineback will be the symposium participant. Hilt Johnson was very recently disabled by a heart attack from which he is still recovering.

The Department of Geology at Grand Valley has arrived! It threw its first cocktail party at GSA. No, you won't find this historic event on the official social calendar of the Cincinnati GSA meetings, but 16 former and present faculty and students found their way to Dick Lefebvre's and Bill Neal's motel room in the Holiday Inn on Monday evening, November 2nd to renew acquaintances and to swap lies about the past. Present at the party were:

Ginny Peterson Ingrid Verhagen Dick Lefebvre Bill Neal Dale & Lynn (Wolfe) Mason

Suzanne & Elliot Pearce Steve McCollough Tom & Nina Hendrix
Jerry Naski Jack Henderson Jack Henderson Chris Waythomas Ken Wiley Dave Bedson

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One of the highlights of the evening was a late night ride with Dale Mason (in a U. Wisconsin-Milwaukee van) through the back streets of Cincinnati in search of a restaurant. After several interesting failures, the group wound up in Kentucky at a Big Boy restaurant - gourmet dining at its finest.

Other GVSC alumni at the Cincinnati meeting but not at the cocktail party were Johnny and Dot Lucke, Dawn VanderZouwen, Jack Hall, Linda Martin, and Ron. Ten Harmsel. Dawn VanderZouwen ('81) was on the technical program as co-author of a paper on grain size analysis and Tom Hendrix chaired the annual meeting of the NAGT-USGS Cooperative Summer Field Training Program Committee. See you next year in New Orleans.

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ALUMNI AND FRIENDS

The following news is a melange of information from the responses for the Spring '81 newsletter that never quite made it to press, letters to the department, visitors, chance meetings, word of mouth, and rumors for which the editors take no responsibility! Some of the comments are in reference to 1980, but even old news is worth sharing.

Anderson, Boyd Group Science, 1975

Anderson, Dave Geology, 1980.

After returning to Michigan (Big Rapids) for a short time in the final phase of his training with Dresser Atlas, Dave has returned to Texas. Dave visited the department this summer and reported that he's very busy out there in the oil patch.

Antonides, Roger Geology, 1972

Roger and Linda's family is growing! Their second son was born in July.

Arnold, Mark Geology, 1975

Atwell, William Earth Science, 1974

Austin, Larry Geology, 1974

Larry is a geologist for Williams and Works, Inc. He attended the N.A.G.T. meeting on campus last spring and brought us up-to-date on his work in glacial and hydrogeology.

Baker, Tim Geology, 1977

Tim is with Dart Oil, Mason, MI, well-known for their deep exploration program in the Michigan Basin. Tim helped recruit Mark Bishop to Dart, and the company employed student Gregg Swayze this past summer. If you wonder what geologists do in their spare time, read the feature article in the November 15 Grand Rapids Press Wonderland section. Tim joined a group of divers to explore for sunken "treasure" in Lake Michigan! Their primary exploration tool was a magnetometer.

Boldwin, Tom Geology, 1979

The latest word is that Tom has taken a job in Houston (Amoco?). It's time to check in Tom. Dr. Neal wants to know when you're going to finish your thesis at Wright State!

Bedsun, Dave Geology, 1978

Those in attendance at the recent G.S.A. meeting in Cincinnati were pleasantly surprised to see Dave, all the way from Albuquerque. Dave continues working for the Air Force, but he's also going to work toward a Master's in Civil Engineering (soils).

Having just completed the third year in business - Topaz Mineral Exploration - I find that each year I gain more success. I am becoming very well known for my main specialty - pseudomorphs and am entering new fields of specialty including rare minerals, sulfosalts, and native elements. Also, this past summer I did some field work in oil-gas exploration and look forward to more work in this field. Over the last year I have been fortunate as far as my own field collecting (minerals) is concerned. It would appear that I have found at least three minerals never found before in Michigan. My collecting area centers around Keweenaw County and the many old copper mines found there. Although a paper is in the "works" for publication, I find that my business and other extracurricular activities keep me from any work on it.

Bierlein, Wendy (see Thompson)

Bijkerk, Ann (see Kauffman)

Bishop, Mark Rarth Science, 1974

Mark returned to Grand Valley and took some additional course work before going to work for Dart Oil. During the past few months he's been learning the company's operations. He and his wife, Jeanne, were expecting their first child which we expect has arrived and is causing sleepless nights as well as joy.

Booker, William Geology, 1970

Bill is a geologist with the Michigan DNR. He was quoted in the Grand Rapids Press this past summer in an article on the future of petroleum development in Michigan.

Bowden, Doug Geology, 1974

Doug is a geologist for American Selco.

Bowen, Scott Geology, 1978

Scott wrote recently (August '81). He's enjoying the oil business and marriage. His wife, Cleo, has a degree in geology and teaches high school science.

Bowles, Harry (Bud) Earth Science, 1972

Bud is an earth science teacher at East Kentwood High School.

Bravender, Lynn (attended 1975-77)

Lynn recently stopped by the department with another visitor in tow --- Mark Jordan. It was a scene from the Pleistocene!

Erintnall, Art Geology, 1970

I have been working the past 10 years in land surveying for Prein and Newhof, a local prominent engineering firm. If all goes well I will, hopefully, be registered in land surveying within the next 2 months. I have a family consisting of wife, Caryl Lynn; son, Ryan Paul, age 3; daughter, Robin Christine, age 9 months; father, me. We are settled in and enjoying life. Hope everyone else is too.

Broughton, Jill (see Pedden)

Brown. Leo

Byle, Chris Geology, 1977
Chris works for Tooke Engineering out of Gaylord, MI. He completed his Master's degree at Duke University this past year. Bonnie and Chris now have four children.

Burgess, Rhoda
Rhoda left Williams and Works and is now employed as a legal secretary in Grand
Rapids. She reports that her children are getting older, taller, and smarter
everyday, and that Sarah is threatening to become a geologist! Please don't
tell Rhoda that these are all signs of old age.

Cates, Delores TJC (Geology), 1977

Christrup, Eric Earth Science, 1974
2137 Melita, N.E., Grand Rapids, MI 49505
I'm back teaching at Coopersville - this time at the helm of a 5th grade class.
Have been taking classes to further my degree - no use stagnating. Elaine is still (unfortunately) working.

Cline, Cathy Geology, 1978

Corbett. Larry Earth Science, 1973

Larry teaches at East Kentwood High School. Curtis, Tom

Covyeau, Sally (Markley) Group Science, 1973

As always, I enjoyed reading the newsletter very much. The most surprising thing was reading the list of graduates. I had no idea I was such a pioneer. Being a Geology Department graduate and female graduating from GVSC in 1973 definitely made me either a pioneer, a minority, or crazy. (I'm instantly reminded of having to prove to Dr. Clark on the ANGUS that women, me in particular, were not along on the voyage to "take down data". I wanted to hang Nansen bottles too!) Ah, the good old days. Currently I am working as an analyst for the Navy automating and maintaining the budget for the AEGIS shipbuilding project. I noticed in the last newsletter that one of my fellow alums works at the Navy's China Lake Center (Frank White). China Lake's budget is included in the budget that I work on, and I prepare the tasking document which releases funds to them. By the time the next newsletter comes out there may be quite a change in my work. My husband, Rich, and I are in final negotiations for setting up our own tennis club. When things are final, I'll fill in all the details. I'm so glad the Geology Department keeps in touch. The Club we are planning is in the midwest, so hopefully, I'll be back in the area to visit soon.

Decker, John Geology, 1979

Degnon, Leslie (attended 1975-76)

Back to school for me, hopefully! Other than that, I'm still an assistant manager for McDonalds and moving up; If you're out on Plainfield Avenue, dress in to see me.

DenBesten, Clare (Rollings)

Dexter, Jim Geology

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Reagan's cuts slash the NURE Program so things are in a tizzy here. Projects slated for this fiscal year are probably safe tho; hopefully, I'll be helping to conduct a small study of the Harney Peak Granite (S. Black Hills). My family and I were miraculously not wiped out in a head-on collision last August. Mary Ellen will be on crutches for at least six more months, due to the foot injury she incurred at the time. All others have recuperated (I don't know what happened to the woman who was driving in our lane). Things are slow getting back to normal. We now drive a Subaru 4 WD and have been enjoying driving on two-tracks through the Morrison in search of dinosaur remains. Have also been collecting azurite 'rosettes' from near LaSal, Utah - very pretty. Let me know if the GVSC collection could use any and I'll send you a bunch. (Ed. note: YES) Am looking forward to the newsy newsletter. Take care and Drive Defensively!

Dombrowski, John Geology, 1973

The ranks of GVSC alumni on the west coast are growing. Have been in contact with Roger Haskins who is now in Sacramento (with wife, Sue) as a BLM geologist for the state of California. I'm still at Texaco in L.A. and enjoying the current boom in exploration activity. Was glad to visit with my old friend and advisor, Bill Neal, when he was at U.S.C. this summer and extend my hospitality to any other faculty, students or alumni who find themselves in the area. Keep up the good work - this is the easiest exam I've ever taken (The update from John is that he's engaged to be married on from GVSC. February 20. His fiance is a geophysicist, the daughter of a geologist, and a far distant relative of the mineralogist Dana. We expect future Dombrowskis may be a super-race of geoscientists!)

Dornbos, Del Earth Science, 1976

Doublestein, Jeff Earth Science, 1979

Fegel, Larry Earth Science, 1973

I am still teaching at City High in Grand Rapids, Mary Kay and I now have two children; Matthew is 2 years old and Kristina Louise was born 9/25/80.

Feyen, Al Earth Science, 1972

Filymer, Dick TJC, 1978

Fink, Ray Group Science, 1971

After graduation 1 joined the long ranks of unemployed teachers. (Whatever happened to all those jobs for male elementary teachers?) Subsistence dictated that I take a temporary job as night stacker for Meijer, Inc., and I've been there ever since. (Ever notice how great the dog food aisle looks at the Alpine Thrifty Acres?) I share a five-acre farm in the Marne area with one wife, four cats, and (usually) twenty chickens. I've dropped by the Geology Department a few times but no one was home. My favorite hobby is collecting choice specimens during vacations. This spring I plan to go international - we're leaving for the British Isles in April.

Francis, Shirley (Friend of the Department)

Fultz, Larry Geology, 1977

I just got back from a tour of disseminated gold mines in Nevada and California. I'm presently working in . precious metals as a project geologist for Lacana Mining, Inc. (a Toronto based company) out of their Reno office. Things out here have been pretty exciting. The increase in gold prices over the past few years has caused a flood of geologists combing every rock in the province. Within the next few years Nevada will become the largest producer of gold in the U.S. I'm glad I made the move out here. My work has rejuvenated my enthusiasm for geology.

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Gebben, Dennis Geology, 1969

Geology, 1978 Green, Ron Department of Geophysics, University of Utah, Salt Lake City, Utah 84112 I have recently concluded my sojourn with geophysics and have undertaken meaningful (part time) employment with the USGS. But, the cultural shock and identity crisis associated with a working position in society is driving me back to academe. Hence, a path of fear and loathing in hydrology at U of Arizona (Tucson) awaits our arrival come autumn. Many regrets on our missing the Christmas party but it coincided with a family gathering this past year. Hope that all is going well at GVSC and the Geology Department. Grodecki, Steve Geology, 1975

Hall, Jack Geology, 1977

Jack has started on a Ph.D. program at Ohio State. We enjoyed visiting with him at the recent G.S.A. meeting.

Ham, Tom Psych/Hst/Earth Science, 1979

Harshfield, James Geology, 1972 402 Coachman Dr., #3C, Troy, MI 48084 No. X C. Company of the Company of t

Hartsock, Gary Geology, 1979

All the other Grand Valley students that used to work for the Defense Mapping Agency here in St. Louis have abandoned me. If people are looking for jobs, they should talk to the deserters before applying here. I'm biased for the place. Ronald Reaguns federal hiring freeze does not affect the defense department so our plant is still hiring cartographers. The working level is going to be G.S. 11. That means starting as a five or seven, you advance every year and add a number to an eleven position (5 7 9 11). As far as I know, I'm the only GVSC grad left here. I can give more details to any prospects. 22 1 124 142 1

Haskins, Roger Geology, 1973 and Sue (nee Marcus) TJC, 1973

Roger and Sue visited the department during the summer of 81 but they found the place abandoned. Thanks for the calling cards and the notice for students on the employment board -- much appreciated!

I am working at Amway Corporation as a production and material planner. My function is to assume responsibility for the manufacturing of all the internationally distributed literature. Living and working in West Michigan is The fantastic! we stand a few feet of

Hewlett, Julie (see Kampa)

Filer, James Earth Science, 1974 and the same of the same

Eoving, Sheryl Earth Science, 1977

Well, I finally got away from Grand Valley (Dick told me that they wouldn't allow me to stay another year.) I'm part of GV's contingent at Southern Illinois University now. Grad school is going well. The TAing down here is much more enjoyable than teaching junior high. I'm glad I decided to go for an MS degree in Geology. Hello to the friends I don't get to see anymore hope to visit with you at the Christmas party one of these years.

Rull, Doug Geology, 1977

Funt, Herb Geology, 1969

Huyser, Dave Group Science, 1968

Johnson, David Geology, 1974

Jordan, Mark Geology, 1977

Mark visited the department in November. He is working as a groundwater geologist for the state of Arizona.

Kaminski, Mike Geology, 1974

I have been involved in Geotechnical Engineering, particularly in arctic regions since my arrival in Alaska in 1975. Am presently managing an ongoing project connected with the proposed Alaska Natural Gas Pipeline. The project is conducting monthly field trips along a 750 mile route through Alaska for the purpose of collecting shallow ground temperature data and ground water data at 336 remote sites. The data we collect for our client is incorporated into their design of a "cold" pipeline in areas of intermittent permafrost. And the second of the second

Fampa, Paul and Julie (nee Hewlett)

Julie is a geologist with Bowser-Morner of Toledo, Ohio

Kauffman, Ann (nee Bijkerk) Geology. 1980

> Greetings to all GVSC folks, past and present. Sorry we had to miss the Christmas party. We just couldn't scrape up enough money. Also, Mark can't get much time off. Maybe next year. Everything's going quite well down here. I'll find out how well in a few weeks when this semester is finally over. It sure has seemed endless - quite a shock after 10-week terms. But I really like it here. I've learned an awful lot. The professors are very good - more are tops in their field. They're generally quite friendly and easy to get along -29

with too. I'm also quite impressed by my fellow students. There are some very sharp people here. They're a really friendly group too. It's an awfully big department, though. I miss our close-knit group at Grand Valley. Mark is doing really well too. He got a job with Radio Shack. He's the computer service manager for the Tucson area! We'd sure like to hear from some of you. You can either write us at the Dept. of Geosciences at the U of A or our home address. (Ed. note: Mark and Ann visited the department this past summer. Ann has started a thesis project on a highly tectonized metamorphic core complex in Paleozoic and Mesozoic rocks.)

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Kelly, Diane Biology, 1978

Kimball, Greg Geology, 1978 Korving, Geri Earth Sciences. 1973

I enjoy the newsletter - glad you tracked me down. I know I've been away from GVSC too long when I get a letter addressed to Mr. Geri Korving. I'ts hard to believe its been almost ten years since I regularly frequented the first floor of Loutit Hall. It was lots of good times, good memories, good people. I'm alive and well and living in Minneapolis. I never thought I'd really leave Michigan let alone live in a big city. It just goes to show that we shouldn't have too many preconceived notions about what lies ahead for us. Minneapolis is a neat place, I really like it here. My life is filled with blessings; God has really been good to me. 202 377

Lach, Pat (Packer) Group Science, 1969

Lack, Monica Geology, 1979

I started working for the Michigan Geological Survey (DNR) last July as a regulatory geologist in Gaylord. My job involves regulating oil and gas drilling rigs drilling Antrim Shale for natural gas and the Niagaran pinnacles reefs for oil and gas. With drilling being allowed in the Pigeon River State, Forest and possible groundwater contamination from brine (brought up during drilling and production) the job doesn't get boring. The hard-hat and steeltoe boots I wear in the oil patch are unusual accessories I've added to my - No added to wardrobe.

Leistico, Marlene Geology, 1979

Started working for Michigan DNR in July 1980 as a geologist involved in hydrogeological investigation of groundwater contamination problems.

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Losey, Tim Geology, 1968

Lugthart, Doug Geology/Anthropology, 1969

Grad school here in northern Illinois is just peachy keen. If my advisor isn't deported back to New Zealand, I'll spend this summer in Glacier Bay, Alaska, wet and frozen (he says) dodging calving glaciers while trying to extract grab samples from the fjord. (It will hardly be comparable to the Mediterranean). Teaching is an enlightening experience. GV gave me an excellent background but you guys never told me such things such as our knowledge of the creation of the moon comes from data such as preCambrian fossils and the ancient writings of preCambrian man. Hey, aren't you guys up on the literature? And to think I have to learn these things from my students. (Ed. note: Nancy didn't get to go to Alaska but there is still hope. Nancy recently visited the department and arranged for her advisor, Dr. Ross Powell, to visit also and present two seminars on his Alaskan research.)

Marcus, Sue (see Haskins)

Markley, Saily (see Covyeau)

Martin, Jeff Geology, 1975

Jeff left WMU to go to work for an oil company. we need an update on news and address.

Martin, Linda Geology, 1979

First snowstorm of the season today with ten inches already! I'm dreaming of a White Christmas with lots of skiing here in Vermont. School is going well and keeping me very busy. Next summer I'll be back to S. Quebec to finish up my field work. If all goes well I should be finished here by Christmas '81. (Ed. note: Linda was at the November G.S.A. meeting. Everything is progressing according to her plan.)

Mason, Dale Geology, 1980

I am attending UW-Milwaukee as a grad student. My field of interest is sedimentary and depositional models. I am unsure of my thesis areas as yet but it probably will involve beach environments. (Ed. note: We cross paths frequently with Dale and Lynn Wolfe, now Mr. & Mrs. Mason - Congratulations! Dale presented his 499 project at the poster session of the 1981 Michigan Academy of Science meeting. He's doing his Master's thesis on river and beach sands in West Michigan. Lynn and Dale were also at the November GSA and are rumored to have led a late night field trip that ended in Kentucky with the celebration of Ingrid Verhagen's birthday!)

Matthews, Mike Geology, 1970

Morris, Mike Geology, 1970

Have been with Omni since October '80. Since then I've been working or developing prospects and supervising well site drilling and completions in the capacity of petroleum geologist. We're looking for the "Big One" so that Carol and I can get this 30 footer (sailboat, of course!) beckoning us from Saugatuck. Then, we might go on a permanent sabbatical and cruise the Virgin Isles. (You have to be a dreamer to be in the oil field!)

McComber, Margaret (Friend of the department)

Olsen, Ken Earth Science, 1973

I'm now working for Union Bank and Trust Company. Left Old Kent about 3 months ago. Certainly enjoy the newsletter. Sorry I missed the Christmas party. Please advise when the next Geology Club party will be held so I can make plans to attend. Old Geology Club Presidents never die, they hardly even erode away.

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Page, Richard Geology, 1971

Pedden, John and Jill (nee Broughton)

Perry, Lyle Geology, 1977

Peterson, Virginia Geology, 1980

Ginny attended the GSA meeting in November and was part of the first GVSC geology reunion at GSA which may someday be an annual event. Ginny is progressing well at the University of Massachusetts where she claims she has never fallen asleep in class.

Plomp, Pete Geology, 1978

Pete has been seen at football games at Grand Valley so we know he's out there. Stop by and see us Pete.

Reck, Don Geology, 1974

Rogers, Dave . Geology, 1969

Dave is now senior scientist at DBA in Florida working with video and laser tracking systems.

Rutherford, Julie Geology . .

Sartoris, Doug Geology, 1976

Satterfield, Gloria Group Science, 1971

Schriber, Craig TJC, 1978

Finally graduated with my MS degree (Washington State). Started work in Battle Mtn., Nevada; looking for barite. Has anyone seen any? If so, please tell me I've been looking for a whole day now and haven't had much luck! The job seems like it's going to be fun. My field area is in a region of thrice-folded-metasediments!! Battle Mtn. is kind of the pits, but the company office will soon be moving to Reno where there is skiing in the winter. Well, I have to go out and find some barite. Take care.

Schulz, Jim Geology, 1977

Jim prepares those beautiful cars you see in the Chrysler advertisements on IV. Do a good job Jim --- Michigan needs to sell several million of those cars!

Schulz, Bob Geology, 1975 Bob visited the department recently and filled us in on the recent history of the Schulz brothers, the original free spirits. Bob has returned to the petroleum business as operations manager for GX Consultants, a geoscience extension of XCO, out of Denver.

Sharpton, Buck Geology, 1979

The big news is that Buck and Sue have a new son, Thomas Jefferson Sharpton! Buck coauthored a paper in GEOS entitled "A Cosmic Catastrophe?". These two events are not necessarily related.

Shoemaker, Craig Geology, 1976

Craig returned to Grand Valley, took some refresher courses, and began a Master's program this fall. Craig married Diane Pyatt, a Grand Valley graduate, this past summer. Diane is also beginning Master's work at SIU.

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Sief, Carl Geology

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Sims, Fran Geology. 1978

Sinke, Robert Earth Science, 1973

Smith, Greg Earth Science, 1976

Smith, R., C. Earth Science

Spruit, Jeff Geology, 1975 Jeff completed his thesis at Western Michigan University and has joined Conoco. Send us your address Jeff, and thanks for the barite.

Stolarz; Rick Geology, 1980

Presently I am struggling through graduate school at Southern Illinois University and searching for a thesis topic. (Ed. note: Rick is doing a thesis in the Ouachitas and is headed for the oil business.)

Suntken, Loval Anthropology, 1976

We've heard rumors that Loyal is heading for the alter. Is this true? Don't forget to send your old advisor an invitation.

.Swayze, Mike Geology, 1980 The there was proper to the green group to the

Mike is back in Allendale while his wife finishes school. Currently he's managing Campus View Apartments.

Ten Harmsel. Ron Geology. 1979

Ron visited the department this fall. He's finishing his Master's thesis at Eastern Kentucky University on fault activity in Eastern Kentucky. Ron is another alumnus about to go to work. The last we heard the Ten Harmsel's were expecting. -33Thompson, Wendy (nee Bierlein) Geology, 1977

It's been quite some time since my days at Grand Valley. I sure would like to make it back for the Christmas party, but hopefully next year. My husband's name is Phil and we are now living in what is known as the Tri Cities. We met in Idaho while I was working down at Raft River Geothermal. His family owned a ranch there. We now farm up here. I'm working as a geologist for Rockwell out in the Hanford Reservation. I'm involved with a program known as the Basalt Waste Isolation Project. This is an attempt to become licensed as a National repository for the permanent disposal of high level nuclear waste. Right now we are in the middle stages of a deep core drilling program and hydrological testing of basalt flows which appear to be at least 13,000' thick in an area known as the Pasco Basin. At present, the program has also mined into a ridge of basalt, installed equipment for measuring the effects of heat and radiation in the basalt, and will be placing spent fuel rads inside. Our overall goal is to drill a shaft to about 3,000' for a disposal system in a flow which is 200' Thorpe, Doug Geology. 1974

Doug and Deborah Shideler were wed on October 10. Best wishes! Tondu, Joe Geology. 1973

VanderLaan, Steve Group Science, 1974

Verseput, Tim Geology, 1978 Tim is a geologist with ARCO in Bakersfield, CA. We've also heard a rumor that Tim has wed. Send details!

Verwoert, Dan Geology, 1970

Videtich, Patty Geology, 1976

Patty completed her Ph.D. at Brown University and joined Conoco. See the past year's Journal of Sedimentary Petrology for some of Patty's work.

Vrona, John Geology, 1977

John is a geologist with Sun Production Company.

Waggoner, Guy Geology, 1976

My studies continue to go smoothly. I anticipate finishing up my Ph.D. next year. My cruise to South Africa and South America was a very enjoyable experience and I anticipate going on another one sometime next year.

Walters, Jim Geology, 1970

Not much to say since the last newsletter, but we really did enjoy reading it. We were glad we were able to attend the Christmas party, talk with old friends, meet some new people, and learn what's going on in the department. Just thought of a couple of things: we had an addition to the family last August; a baby toy named Kyle; I'll be going to Alaska again this summer for the Park Service and in July I'll be teaching a geology field course in Colorado, Another busy summer.

Ward, JoAnn Geology, 1975

Waythomas, Chris Geology, 1979

Things are great down here at Southern. Working with Dale Ritter is very enjoyable! Besides course work, thesis, Alaska project, work and running, I haven't had time to do much else. I wish all my old friends and acquaintances well in your endeavors, geological or otherwise. (Ed. note: Chris won the spring 1981 St. Louis Marathon! Congrats. Chris was part of our alumni contingent at the November GSA meeting, and was in the department last summer working with Norm on his Alaska project.)

Werner, Al Geology, 1979

Al is now a geologist with Shell Oir.

White, Frank, Geology, 1969

I continue to work for the Department of Defense as a radar crew chief with radar and electonic countermeasures duties. Bought a house last year, but still a bachelor. Camping and fourwheeling, cooking and hi-fi occupy my pasttime. Last year I set up a 19 foot diameter, satellite television receiving station in a nearby town. That was a fascinating project.

Wiley, Ken WJC (Geology), 1979

Ken began a Master's program at Wright State University this fall. He was working at GSA in Cincinnati in November.

Williams, Richard Earth Science, 1973

Woerns, Rolf Geology, 1970

Wolfe, Lynette Geology, 1980

I'm working in a bookstore near Marquette University, taking violin lessons, and night classes in Spanish. (Ed. note: See Dale Mason. Lynn and Dale were recently wed. This makes newsgathering easier for newsletters when we find an alumnus and an alumna studying the same stone.)

Wregglesworth, Dana Geology, 1978

Dana has worked for Texaco, and GTE's mining division since graduating. He's currently employed by an Engineering Ore Processing Equipment Company and is thinking about returning to graduate school.

Zeider, Dave Geology, 1977

Dave's sister is a freshman at Grand Valley and gave us a brief update on Dave. He left Monaco Engineering to start his own partnership in which he continues to do well-site geology. Their office is in Denver, but much of their work is in Wyoming and they're considering opening an office in that state. Dave is married and father to two daughters.

Zuidgeest. Robert Group Science, 1975