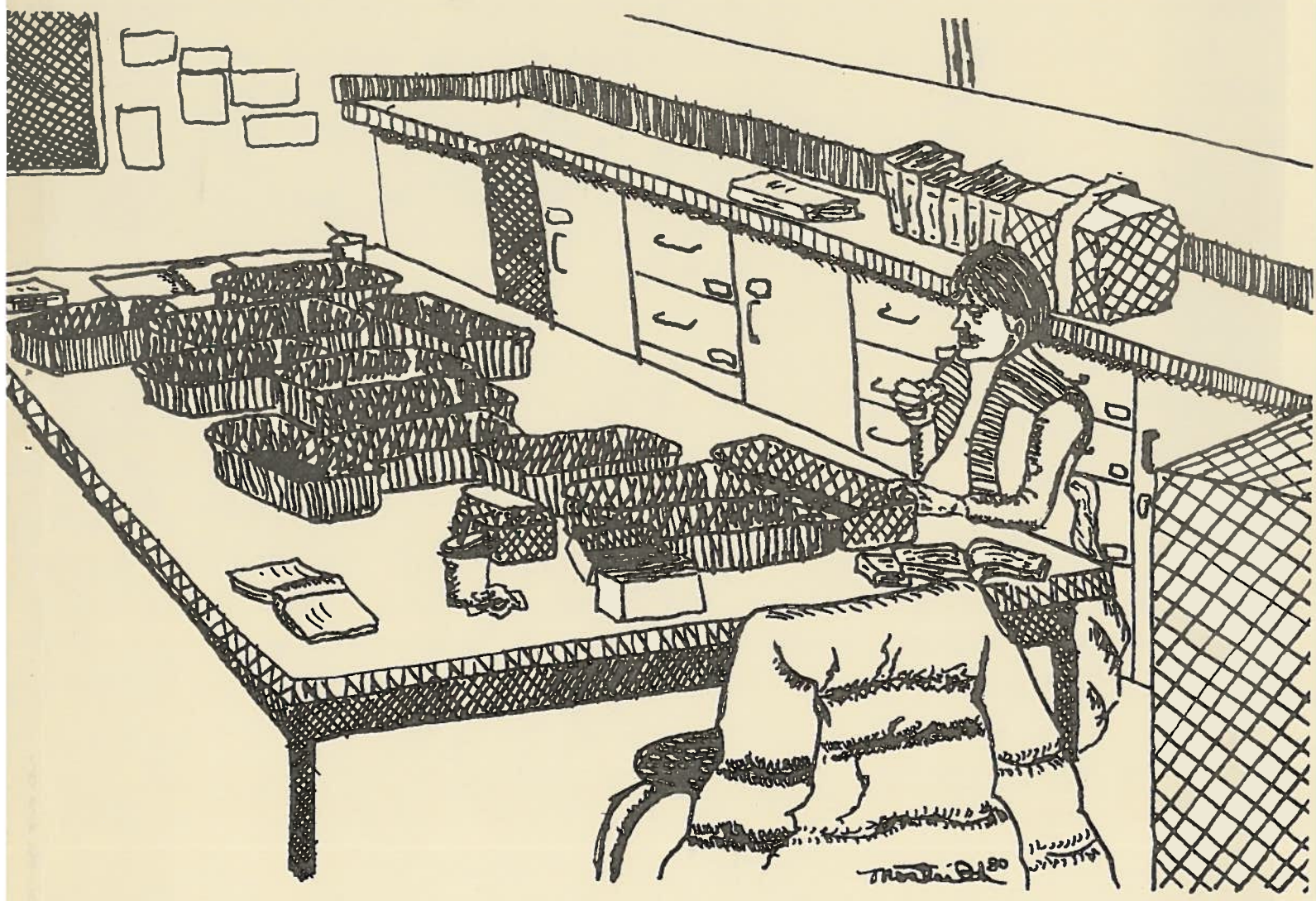


GVSC GEONEWSLETTER

VOLUME 4

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PRODUCED BY THE STUDENTS AND STAFF
OF THE GRAND VALLEY STATE COLLEGES'
GEOLOGY DEPARTMENT

Greetings

The promise of spring is in the air in Western Michigan and with the stirring of new life we are inspired to renew our ties to our alumni and friends. It's been two years since you've had a Newsletter from the department and I'm sorry for the communication hiatus. We will try to be more consistent in the future.

I am pleased to be able to report that the Department of Geology is in vigorous good health with sixty active majors on hand, four faculty tending store with a fifth faculty member due to join us next year, and lots of interesting and exciting things going on. One of those exciting things is the excellent response we have received to our request for alumni news. Much of that news will appear on the pages of the Newsletter. If somehow you aren't a part of this Newsletter, I hope you will let me know of your activities so we in turn can let your colleagues and friends know where you are and what you are doing. Dick Lefebvre, Bill Neal and Norm Ten Brink join me in hoping that you will enjoy this news of your department.

Cordially,



Thomas E. Hendrix, Chairman
Department of Geology

This Newsletter is Dedicated to

GVSC's First 100
Geology Department Graduates

- PRESENTING -

The Century Club

If you count the alumni listed in this Newsletter you'll find that one hundred students (more or less) have suffered (nay - triumphantly marched) through the many geology classes, seminars, senior research projects, summer camps, and other requirements to earn a BS degree in Geology or Earth Science teaching at Grand Valley since its inception. The whereabouts of 14 (therefore 14% - who needs calculators?!) of those graduates has escaped us (let's hope only temporarily). Fifty-two percent of all graduates are presently employed in the "sciences" and another 20 are presently in graduate school seeking an MS or PhD in the Earth Sciences or (3) continuing with more undergraduate courses. Of the 52%, 12% are in oil or oil-related industry (one has even started his own oil exploration company), 6% in mining, 22% in geological-hydrogeological-environmental or other science/engineering-oriented industry, and 12% are teaching, three at the college level. Fourteen percent of all graduates have decided to pursue other vocations. The 14% in other vocations range from art to police work, sales to farming, and even includes one who has his own minerals-for-sale business and three who are back at Grand Valley taking more courses.

If tables are your preference, here it is summarized:

Oil	12
Mining	6
Science-related (including engineering)	22
Teaching	12
Presently in Graduate School (or taking more undergraduate courses)	20
Other	14
Unknown	14

100 Geology alumni graduated
from 1968 through 1979

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ABOUT THE COVER: Mineralogy - known to have caused a phobic reaction to green trays for some - is the subject of Mike Monteith's drawing gracing our front cover. Some say Mike, a sophomore geology major, had all the time in the world to complete his drawing because Gregg Swayze (the subject) also a sophomore geology major, was known to maintain this pose for days (and nights) last fall without moving.

ABOUT THE FACULTY
PAST - PRESENT - FUTURE

Jack Henderson (former faculty, 1970 - 1977) Geological Survey of Canada, 601 Booth Street, Ottawa K1A 0E8

I've completed the field work on the Foxe Fold Belt in east-central Baffin Island; thanks in large part to the superb assistance of Ron Green (1978) and Steve Aungst and Ginny Peterson (1979). This summer Mariette and I will be on separate projects; she is going to do some detailed mapping in western Quebec, and I will be assisting another geologist responsible for mapping a region straddling the Thelon Front (Slave-Churchill Province boundary) in the upper Back River (otherwise known as the "Great Fish River") about 300 miles NE of Yellowknife (105-107°W, 65-66°N). Mariette and I recently returned from a two-week bike tour of the French Riviera, but I must say that we didn't pay much attention to the rocks, except those on the road! The National Capital Marathon is May 11th; I plan to come in under 3:30 this year. Are there any runners at Grand Valley, or in the ranks of the alumni? Let me hear from you (even if you don't run).

Tom Hendrix

About half way through my recruiting visit to the Geology Department at Grand Valley in March, 1978 I began to feel that I had been here before even though I knew perfectly well I hadn't. The informal but well-prepared setting, the easy, first-name rapport between students and faculty, the genuine interest that permeated the place reminded me of my undergraduate experience at Franklin and Marshall College a quarter century ago. I decided right then that if this is what you had going for you, I wanted to be a part of it. So here I am. The only important ingredient that seems to be lacking is a little creative hell-raising, but I sense a good potential for this in the current crop of students.

Excellence in teaching and learning, interesting research that involves students, and involvement in the life of the college are my goals at Grand Valley. I sense a strong commitment in the department for at least two of these three goals. In the first area I believe Grand Valley must make itself known throughout the state of Michigan as a place of excellence in undergraduate geology. This will be little more than an extension of the work begun by John Lucke and the current faculty, plus important contributions from recently departed faculty members, Ed Tremba and Jack Henderson. The new summer introductory geology course in Montana should help get us known better state-wide as will the scholarship program funded through central administration.

My research is and will continue to be analysis of the geometry and kinematics of Laramide structures of southwestern Montana. A paper on one spectacular example of these structures - The Sandy Hollow Collision Structure - will appear in the Montana Bureau of Mines within the year and another paper on regional aspects of the Laramide structure of the SW Montana structural recess is in progress with a former student now on the faculty at Northern Arizona University.

My first year at Grand Valley (1978-79) was spent largely in new course preparation or revising old courses for the (abominable!) quarter system, and getting to know the college and the Grand Rapids area. During that year the Hendrix family was rather fragmented. While I "batched it" in Allendale, my wife (Nina) and two daughters (Susan 19 and Lori 17) stayed in Bloomington where Nina finished a job in the Office of Continuing Studies for Women, IU, Susan started college at Indiana University and Lori finished high school. Mike (21) was (and is) a forestry major at the University of Montana. This all changed in November 1979 when we were reunited in a new house 7 miles west of the college.

This year has seen the duties of the chairman added to teaching and research chores, plus service on several college-wide task forces and a new job with NAGT as Executive Secretary of the NAGT-USGS Cooperative Summer Field Training Program.

All in all, it has been a very busy but pleasant year. Perhaps the most pleasing event has been the hiring of a geochemist to fill the slowly fading footprints of Ed Tremba. The new man is Gary Jacobs, a Penn State Ph.D. who loves metamorphic rocks, snow and rural settings in about that order. We feel extremely fortunate to have secured Gary's services because all reports from out east tell us he is one of the best geochemists to come out of Penn State in recent years.

Also this year we have been fortunate to have the teaching services of Carolyn Rutland, a Texas A.M. graduate in petrology-geochemistry to handle introductory geochemistry and to help out in petrology and the introductory courses. The ever-increasing female population of our majors group has been particularly pleased to have Carolyn as a teacher as well as a role model. Carolyn will also be involved with Grand Valley this summer as Associate Instructor of 111-112, the introductory honors course we will be offering at the Indiana University Geologic Field Station in Montana.

Gary Jacobs (future faculty)

At last it will be like the good old days when we were at full force - next year we will be joined by Gary K. Jacobs. Gary is finishing his doctoral program in Geochemistry and Mineralogy at the Pennsylvania State University. His dissertation topic is "Experimental and Thermodynamic Analysis of Metamorphic Devolatilization Equilibria". He comes to us with outstanding recommendations and has been awarded a number of honors and fellowships from his undergraduate days at the University of Vermont on through graduate school. Not that we are expecting Gary to fill both Jack's and Ed's shoes - that would be impossible - it will, however, be good to have someone cover the metamorphism and geochemistry areas of expertise once again. Welcome to Grand Valley, Gary.

Dick Lefebvre

I've been working for the past five years (with some USGS geologists) on the Craters of the Moon volcanic field and we are just about ready to bring that data together in several publications including a map of the area. We've been using a helicopter in order to get into inaccessible areas and a backhoe around the edges of the field looking for soil samples to date by radiocarbon methods. The collection includes dozens of radiocarbon samples which seem to bracket the age of the flows between 2,000-15,000 y.b.p.. Many of these are still being analyzed as are several hundred rock specimens which we collected from each flow in the volcanic field. I'll be staying at Grand Valley this summer rather than going in the field in order to complete the first phase of this work. Wouldn't you know - I won't be out there for easy access to Mt. St. Helens! We have completed the Wilderness Bulletin and a 1:100,000 map of the field thus far. I'm now writing the text for the back of the new Craters of the Moon topographic quadrangle and hope to also be involved writing a Craters of the Moon Geology pamphlet. I'm particularly interested in doing these two because it offers an opportunity to make a geologically interesting area more understandable to visitors, many of whom are geology summer field camp participants.

Here at Grand Valley things are settling down a bit. I'm very pleased to have Tom join us and we're looking forward to having the staff rounded out at five next year with the addition of Gary Jacobs. Our student body is still doing great and I'm particularly proud of the fact that 60% of our graduates are now going off to graduate school. The problems our earlier students had getting through the math courses seems to be a thing of the past (almost!).

I've just been elected vice-president (1980-81) president-elect (1981-82) of the east-central section of the National Association of Geology Teachers (covering Michigan, Ohio, Indiana & Kentucky). I should add that my name was the only one on the ballot and it would have taken a write-in campaign to defeat me - Neal and Hendrix considered it awhile but ultimately decided to let me go ahead and make a

fool of myself. They really thought the benefits to Grand Valley might outweigh the potential embarrassment because we will host the spring 1981 NAGT meeting here on campus. Hope some of you can make it.

As for the other Lefebvres, Sandy is learning about Personnel Management. She has worked for about a year at H & H Plastics as an assistant personnel manager and is keeping very busy and somewhat frustrated in that position. Lauryl is now at Grand Valley as a geology major! She took Tom's Montana course this past summer and it was one of the highlights of her life. She is a member of the GVSC crew team and they just beat U of M and Notre Dame - take that Neal! Jeff and Curt seem to be growing at the rate Mid-ocean ridges spread, and have officially made Sandy the shortest person in the family - for life I might add. Jeff is working at McDonalds and taking karate under Dale Mason. He and I biked to Mackinac Island last summer. Curt joined me in Arco last summer and the two of us stayed there in a motel suite and took a white water trip down the Salmon River. He's "into" woodworking and computers as of late.

A final word to all of you alumni out there, let us know where you are and what you are doing. Come to our picnics and particularly the Christmas party. Finally, consider our scholarship fund for the encouragement of people like you so that they may have the means to carry on in your footsteps.

John Lucke (Professor of Geology, emeritus) The Anchorage E-24, 15 Pleasant Street, Harwich Port, Massachusetts 02626

Enjoyed TransCanal cruise of Royal Viking Sky as "Enrichment Lecturer" last October. Spoke on 1) Geology and how we date rocks and fossils; 2) The Glomar Challenger and the floor of the ocean; 3) Island Arcs, faults and the Ring of Fire; and 4) Coral reefs; especially Great Barrier Reef. We thoroughly enjoyed being guests of the line! Best to all.

Bill Neal

After several false starts in the last two years, our annual (?) Newsletter has finally come together, thanks to the efforts and prodings of several people, but with the final push coming from Dick Lefebvre. Thanks to him, and to all the alumni who responded to the mailing. It was one of the best information responses we've had, and I hope you find the Newsletter a worthwhile reward. We take a great deal of pride in all of our alumni, including those of you who are following careers outside of geology.

My activities are split three ways, between department, professional activities, and keeping up with the women of my family. In the department I'm still winging it in Environmental, Historical, Paleontology and Stratigraphy. I'm hoping my colleagues will make a smooth transition into the semester system next year during my absence.

My sabbatical of 1976-77 paid off in both an old and a new research area. The results of my Hatteras Abyssal Plain heavy-mineral study were part of a paper presented at the 1978 International Sedimentology Congress, and may ultimately appear in a future paper. The work also was an entry point into becoming involved in a similar study in the Western Mediterranean (see article by Nancy Mackiewicz). Perhaps more important is my moving into studies of coastal land use and coastal hazards. Our North Carolina work was published in 1978 as "From Currituck to Calabash, Living with North Carolina's Barrier Islands" (Available from North Carolina Science and Technology Research Center, Research Triangle Park, North Carolina, 27709 for the bargain price of \$3.95). In late 1979, Orrin Pilkey and I received a grant from NOAA-Sea Grant Program to do similar books for barrier islands from New York to Texas. Last summer we began field work on Long Island and the New Jersey shore. From July '80 to June '81 I will be on research appointment through Grand Valley, but based in Durham, N.C. to spend full time on the coastal work. (c/o Dept. of Geology, Duke Univ., Box 6665 College Station, Durham N.C. 27708).

On the home front it seems that my family has grown up, and the birds are leaving the nest. Jean is a French major at Marquette University in Milwaukee. Julie may be headed for the University of Notre Dame in the fall. Leaving Heather, who has recovered nicely from her health problems, and is enjoying the pursuits of a sixth grader. Last summer Jean took Tom Hendrix's Montana geology field course (falling in love with Montana and its colorful bars), and Julie will be doing the same this summer. What better way to be introduced to college, and cut their geologic teeth? Mary continues working at Grand Valley, after a brief interruption to work in the soap-opera world of St. Mary's Hospital. Among her many duties are alumni relations, so when you hear from the Alumni Office please cooperate. It's helping to feed your old professor! On the other hand, when you're ready to donate your bucks, you can come straight to the geodepartment and avoid the middleman (we need help in reaching our goal for the Tremba Scholarship Fund).

We've another good crop of majors. We will soon be back up to full faculty strength. In general, we continue to make good progress. The measure of our success is ultimately in the success of our graduates, as earth scientists and as constructive individuals in many walks of life. To date, you all have "done us proud". Keep it up, and keep in touch.

Norm Ten Brink

All continues to go very well here at Southern Illinois University. I totally enjoy the freedom from usual obligations and the opportunity to really think about what I'm doing instead of just rushing around doing it. Whatever happened to "the life of the mind" in the development and acceptance of "faculty duties"?

We've gotten a tremendous amount accomplished on the Alaskan project, but there is an even greater amount still to do, and I'm beginning to feel a bit nervous about the July 15 deadline for the report. Research is never really "finished" anyway, and I'm sure there will be more than an adequate amount of results by June to keep the funding agencies happy. One of the most exciting developments is the potential for relatively precise relative dating (it's all relative) that appears to be offered by using the SEM on heavy minerals.

Hornblende etching was being looked at as a relative age index by Bill Locke when I worked with him on Baffin Island, and his results were recently published in the August '79 issue of QR. Bill had used conventional microscope techniques, and I had Chris Waythomas ('79) working on the same method for Alaska (as you know), with the results coming out very nicely after we finally learned how to separate out and identify the amphiboles and pyroxenes--loose grain mounts are a pain! While Chris was working on the heavy mineral etching, I was taking advantage of the new SEM to look at quartz and garnet grain textures of sediments from deposits of questionable origin, and in the process the idea hit me that we might get much faster and more accurate results on the heavy mineral etching with the SEM. Lo and behold, LeMont Scientific had even developed a program to calculate the surface roughness of individual grains! We are now in the process of testing out that program, and if it works as well as it promises to, we should have a really powerful tool for relative dating and correlation of the glacial deposits in the Alaska Range that can't be directly radiocarbon dated. We should also have a brand new method of relative age dating that will be of significant interest and wide application for a number of Quaternary problems. It actually is a spinoff of the project, but I'm at least as excited about it as the other results.

In regard to the Alaska Project, I'll either enclose or send separately a copy of the proposal for next year. The 2½ week marathon of planning and writing the thing for 12 to 16 hours a day appears to have been worth it -- I got a call yesterday that full funding of the geological phase is being recommended by the NPS, and that NGS will put in the necessary money if the NPS can't come up with all the funding. I was genuinely concerned when I sent it in, as you can tell by the

cover letter, because the budget exceeded the funds that had been indicated to be "available" by about \$30,000. Even at \$71,000 it is a true "bare bones" budget, but it should let us carry out a complete project and result in theses for both Chris and Al Werner ('79) as well as a one year RA for each of them at SIU. (It also will give me a chance to stay home for most of the summer and get some papers written while still keeping the research going.)

Editor's note: A PBS special "starring" Norm, entitled "The First Americans", was aired on Easter Sunday at 8:00 p.m. It was the first in a new series called "Odyssey", which replaces or continues the Nova series.

Ed Trenba (former faculty, 197 - 197) University of New Mexico, C.E.R.F., Campus P.O. Box 25, Albuquerque, New Mexico 87131

Personally, I have been enjoying my new family, Rose and four boys who range from 5 to 13 years in age. My life is suddenly more than full. Rose has a Masters Degree in Adult Education but has been managing our household and apartment complex. Professionally, our division at the New Mexico Engineering Research Institute has renamed itself Applied Geology. We are heavily involved in the geotechnical siting requirements for several missile systems. Dave Bedson ('78) has done a superb job characterizing numerous Nevada valleys for potential MX missile deployment. I have also enjoyed teaching Geology 101 at the University of New Mexico evenings, although it doesn't compare well with the total GVSC scene.

Bette Weerstra

Last but certainly not least is Bette who keeps it all humming. Right now, however, it may fall apart because Bette has taken an early summer vacation! Well, it's not quite what it sounds like. Bette had to have surgery (it all went smoothly) and will continue her sick leave into her normal summer leave (you know, the hazy, lazy days of summer bit that she pulls every year). She did type 99% of this newsletter before she got away though ---maybe that's what sent her to the hospital. Perhaps her new sign says it all "How can you soar with eagles when you work with turkeys?"

SCHOLARSHIPS

Edward Tremba Geology Scholarship Fund

In October, 1978 geology faculty and students established the Edward Tremba Geology Scholarship Fund to recognize the work of a former faculty member and to accept gifts that Ed, his family, faculty and former students had given the department over the course of the past several years. Starting from a modest \$600, this fund has now grown to \$1799.76 and shows promise of topping the \$2000 mark by the end of the current academic year.

Our plans for this fund are to place the monies in an interest-drawing account this spring (1980), and one-year hence to begin to use the interest for an annual Edward Tremba Geology Scholarship to a deserving geology major. To be effective we need to keep the capital building beyond the \$2000 level. Toward this end, won't you consider joining us by making a donation to the Edward Tremba Geology Scholarship Fund? Any amount is welcomed, and of course, your contribution is deductible.

Students in Geology Holding Scholarships, 1979-80

Twenty geology students, or roughly one-third of our majors, held scholarships or grants based primarily on merit during the current academic year. We are very proud of this record of achievement of our students and salute them for their outstanding work.

- I. GVSC Presidential Scholarship - Janet Tower
- II. GVSC Honors Scholarship
 - Jeff Coleman
 - Robin Fouchey
 - Paul Gray
 - Lauryl Lefebvre
 - Joe Mark
 - Gregg Swayze
 - Dawn VanderZouwen
- III. GVSC Upper Level Merit Scholarship
 - Ann Bijkerk
 - Ginny Peterson
- IV. GVSC Grant
 - Steve Aungst
 - Andy Siersma
 - Rick Stolarz
- V. Geology Scholarship
 - Lorraine Alcott
 - Susan Bol
 - Jeff Coleman
 - Robin Fouchey
 - Lauryl Lefebvre
 - Joe Mark
 - Jerry Naski
 - Ron Sheets
 - Rick Stolarz
 - Gregg Swayze
 - Dawn VanderZouwen
 - Peter Versluis
- VI. Michigan Competitive Scholarship
 - Jan Lawrence
 - Nancy Mackiewicz
 - Gregg Swayze
- VII. NAGT Summer Field Course Scholarship
 - Rick Stolarz
 - Dawn VanderZouwen
- VIII. Tulip City Gem and Mineral Society Scholarship - Ginny Peterson

STUDENT ACTIVITIES

Spring 1980 Majors

Name	Degree Date		
Alcott, Lorainne	5/81	Mackiewicz, Nancy	6/80
Anderson, Dave	12/80	Mark, Joe	5/82
Aungst, Steve	6/80	Mason, Dale	6/80
Bartnik, Pat	12/81	McCullough, Steve	5/82
Bijkerk, Ann	6/80	Miller, Brian	5/82
Bilsky, Larry	6/80	Monteith, Mike	5/82
Bloemendaal, Julie	5/81	Naski, Jerry	5/83
Bol, Susan	12/81	Pearce, Suzanne	5/81
Byle Susan	5/83	Peterson, Ginny	9/80
Byram, Hal	5/81	Roys, Jeff	5/81
Chase, Josef	5/81	Sief, Carl	5/83
Clarke, Jim	5/83	Sheets, Ron	5/83
Coleman, Jeff	5/81	Siersma, Andy	5/81
Cousineau, Tim	12/81	Sorvari, Judy	5/82
DeBoer, Susan	5/83	Stolarz, Rick	6/80
Demorest, Nancy	12/80	Swanson, Craig	5/82
Dulaney, Patrick	5/83	Swayze, Gregg	5/82
Evankovich, Joe	5/82	Tower, Janet	5/81
Flynn, Larry	5/81	VanderLaan, Philip	5/82
Fouchey, Robin	5/82	VanderMeulen, Dean	5/82
Freeland, John	5/81	VanderPeyl, Leonard	5/82
Geldersma, Bruce	5/81	VanderZouwen, Dawn	5/81
Hawley, Mark	5/82	Versluis, Peter	5/81
Hepburn, Thomas	5/83	Werkema, Mike	5/81
Hoving, Sheryl	6/80	Wolfe, Lisa	5/83
Lawrence, Jan	5/83	Wolfe, Lynette	5/81
Lefebvre, Lauryl	5/83	Verhagen, Ingrid	5/82
Lyons, Billie	5/81		

FIELD CAMPS - SUMMER '80

Name

Summer Camp Attending

Mike Werkema	Miami University, Ohio
Gregg Swayze	Indiana University, Montana
Sheryl Hoving	University of Nevada, Las Vegas
Jerry Naski	University of Illinois, British Isles
Larry Flynn	University of Alaska, Alaska
Pat Bartnik	University of Nevada, Las Vegas
Lorraine Alcott	North Carolina State University
Pete Versluis	University of Illinois, British Isles
Jeff Coleman	North Carolina State University
Janet Tower	North Carolina State University

1980 Graduates -- Their Destinations

The department's 1980 graduates are continuing the graduate school-employment pattern of earlier years. Of eleven graduates, six are entering graduate school and five are entering the job market, either permanently or with a longer term goal to eventually do graduate work.

Bill Hazard graduated in midyear. He had originally planned to continue school and work on a MBA-degree, but then opportunity knocked, and Bill accepted a job with Amway to launch his business career. Mike Swayze, also a midyear graduate, has accepted a job with Chevron Geosciences Co., Denver, Colorado, as a geophysical technician. Mike will be engaged in seismic processing and analysis, putting his computer skills to work. Dave Anderson, Larry Bilsky, and Lynne Wolfe are candidates for spring graduation and plan to seek employment.

Graduates heading for graduate school this fall include Ann Bijkerk to the University of Arizona as a teaching assistant (Ann was the 1930 Honors Senior for Geology); Sheryl ("Shurl") Hoving to Southern Illinois University as a teaching assistant; Nancy Mackiewicz to Northern Illinois University as a teaching assistant with fellowship; Dale Mason to the University of Wisconsin, Milwaukee, as a teaching/research assistant; Virginia Peterson to the University of Massachusetts as a teaching/research assistant; and Rick Stolarz to Southern Illinois University as a teaching assistant. The department is proud of the fact that everyone who wanted to go to graduate school was accepted, and everyone is receiving support.

Although there were no Earth Science majors graduating this year, the department was graced with three anthropology seniors minoring either in geology or earth science. Joe Bolach is seeking admission to graduate school midyear 1980-81. Mike and Lark Murphy have been accepted into graduate school at Western Michigan. We wish our minors well, and hope they find opportunity to apply geology in their chosen fields.

Geology Club News

For the past two years the Geology Club has served its traditional purposes. Under the Club, the annual picnics, Christmas parties, and baseball teams were sponsored.

This year's fall picnic turned into an epicurean's delight. It was a potluck and everyone was surprised to find out there were so many excellent cooks among us. We were disappointed that no alumni showed up, however, their attendance at the Christmas Party made up for their absence at the picnic. Ann Bijkerk and her crew did an excellent job preparing the party. Her success was undoubtedly partly due to Linda Martin, whom she helped in preparing last year's Christmas party. Everything went well, except for the 14 quarts of beer that Dick overbought. (And we wondered why he was so happy in Petrology for the first 3 weeks!)

Last season's softball team "Those Guys Who Are Geologists" kept up the ole tradition by losing pathetically, but still having fun on the field. Of course we all missed Ron Green in his sexy orange silk shorts running on the field, not catching pop flys, but chasing Tidwell. This new season will yield a new team, with new enthusiasm and a new name. The team name will be voted in the same manner as last years, but Tom Baldwin won't be there to give his Steve Martin imitations. Hopefully, the team won't be as drunk as they were when they chose the last name.

Interviewing for the geochemist position has had many geologists speaking in the department, and hence the busy schedule has made it unnecessary for a club sponsored speaker. Next year, with all the positions filled, we hope to see a club speaker.

Some of the extra activities sponsored by the club have been the organization of the GSA trip to Toronto in 1978, a weekend canoe trip on the Pine River last summer, the printing of departmental T-shirts, and many, many parties.

Last year's officers were Buck Sharpton as our fearless leader, Bill Hazard as Vice Pres., Nancy Mackiewicz as Sec./Treas. This year's President is Nancy Mackiewicz, the Vice-Pres. is Ann Bijkerk, Ginny Peterson is the Sec./Treas., and the representatives at departmental meetings are Dave Anderson, Dale Mason, and Suzanne Pearce.

Field Camps, 1979

Once again Geology field camps beckoned to GVSC's geology students during the summer of 1979. Nine students, Dave Anderson, Larry Bilsky, Bill Hazard, Nancy Mackiewicz, Dale Mason, Rick Stolarz, Mike Swayze, Lynn Wolfe, and Dawn VanderZouwen went to the west and southwest. In the field they braved mystery meat sandwiches, blisters and endless trip caravans in order to put their classroom knowledge to the test.

Dave Anderson attended the University of Toledo field camp in Rapid City, So. Dakota; Larry Bilsky and Dale Mason were also in Rapid City with Eastern Illinois University's field camp; Bill Hazard was in Oregon at the University of Oregon field camp; Nancy Mackiewicz and Mike Swayze attended the University of Nevada-Las Vegas field station in Nevada; Lynn Wolfe was in Jackson, Wyoming at the University of Michigan's field camp; while Rick Stolarz and Dawn VanderZouwen were in Montana at Indiana University's Field Station.

Sheryl Hoving listened very attentively in seminar as these students told of their exciting summer experiences. When it was over she informed everyone that she decided that she liked the sound of the Michigan camp best - said it was something about the way they packed their lunches.

Other Summer Field Experiences

1978

Sleeping under sunny skies, while sailing in the deep blue salty seas of the Mediterranean. Seeing the sun rise and the sun set, whales spouting just an arms throw away, and porpoises playfully leaping about the bow.

These are just a few of the things I experienced during the summer of 1978 while working on the EASTWARD, Duke University's research vessel. Of course, the cruise wasn't all pleasure. Some of the other things I experienced were long hours trying to stay awake, hard exhausting work, an abundance of mud and grease (mostly on me), and breathing obnoxious fumes while monitoring electronic instruments, all while the ship rocked back and forth and back and forth...

The overall objective of the cruise was to study turbidity-currents of the Balearic Abyssal Plain deposits, particularly their relation to basic geography. One of the more specific objectives of the cruises was to explore for a turbidite generated in a 1954 earthquake which occurred near Orleansville, Algeria. There were three two-week cruises, running from mid-June to early-August. The area of study ranged from east and southeast of Spain to west of Sardinia in the Western Mediterranean. I sailed on the third cruise which covered the area east of Spain.

Besides the 14 crew members, I worked with seven other girls and seven guys, mostly from Duke University and Smith College. Surprisingly, their areas of study ranged from one girl who was doing her Masters thesis in Geology to another who had a Political Science major.

We were split into two crews and worked eight hours on and eight hours off. The work consisted of piston coring, describing and sub-sampling cores, and monitoring electronic depth recording instruments. The work was physically hard, but when we weren't working, the atmosphere was extremely relaxing.

After leaving Barcelona and the EASTWARD, I travelled around Europe staying in youth hostels, night trains, and camping on the shores of mountain lakes. I saw parts of England, France, Italy, Austria, Germany and Switzerland (which I quickly fell in love with). I met many interesting people from all over the world, and had many adventures.

Last summer gave me invaluable experiences while working on the EASTWARD and travelling. For me, the most important thing I gained was the experience of working on the ship and knowing what it's like to be a marine geologist. ---Nancy Mackiewicz

(During the summer of 1978, Bill Neal, Dale Mason, and Nancy Mackiewicz each participated in separate legs of the three two-week EASTWARD cruises, sampling the deep-sea sediments of the Balearic Abyssal Plain.)

1979

The Arctic, contrary to some opinion is not a barren desert, but rather a beautiful living wilderness. Two Grand Valley students, Steve Aungst and Ginny Peterson discovered this while working for Jack Henderson on Baffin Island this summer. Jack was finishing up a several year project which involved mapping of the Foxe Fold Belt on Baffin Island. The 1979 field party mapped a large area on the east coast of the island. Mapping was done by daily helicopter setouts from one of three base camps. The area was located in the Canadian Precambrian shield and was mainly comprised of archean-aged basement gneiss and Aphebian-aged meta-sediments. The rocks had been subject to four periods of deformation which produced many interesting structures for mapping.

The combination of hard work, interesting geology and beautiful surroundings made 1979 one summer that neither Ginny nor Steve will forget.

1978 GSA Meeting (No, it's not a "Typo"--it really means 1978!)

The annual GSA meeting of 1978 was held in Toronto. It was attended by seven Grand Valley geology majors and two of the faculty. The students attended two and one-half days of the five day long convention, and found the experience very rewarding.

The students, Ann Bijkerk, Nancy Mackiewicz, Linda Martin, Buck Sharpton, Ron Ten Harmsel, Al Werner, and Lynn Wolfe attended the meetings along with Tom Hendrix. We left early Sunday morning, October 22, in a school van and arrived in Toronto seven hours later that afternoon.

Everyone was very impressed with Toronto. The city is clean, well planned, and Lynn was fascinated with the trolley cars that ran along the city streets. Beautiful examples of modern architecture are displayed in the buildings and squares, and Yonge Street bustled with native Canadians and visiting geologists. Above all this stands the CN Tower, the world's tallest free standing structure.

While walking through the city on Sunday, we encountered a large outcrop of immature red arkosic sandstone. It has a general east-west strike and steep dip close to 90. Baffled, but not defeated, we attacked the outcrop with brunton but hammerless, and found it to exhibit exfoliation, vertical striations on large cylindrical columns, and intricate carvings. The strange occurrence of the outcrop was well explained when somebody noticed it wasn't an outcrop at all, but Toronto's old City Hall.

To a petrologist's delight, the city is also richly endowed with numerous varieties of granites and marbles which composed walls, buildings, and courtyard sidewalks.

The convention started out with a welcoming party thrown at the Royal Ontario Museum, Sunday night. The Museum was packed with geologists which made it quite difficult to find anyone. Nonetheless, several students ran into past friends from field camps and we bumped into each other from time to time. When we weren't looking for Tom Hendrix, Norm Ten Brink, Jack Henderson, or Ed Tremba (who incidentally we never found) we were visiting the galleries of the Museum. Among its geological exhibits are a paleontology and mineral collection with extensive collections of unique and beautiful specimens.

The next two and one-half days were busily spent attending sessions, movies, exhibits, and walking to and from the two hotels which shared the convention.

The Sheraton Centre is a large, modern hotel with five confusing floors and numerous convention rooms all centered around a landscaped courtyard garden which houses imported oriental pheasants.

The York Hotel is situated about three blocks away. It is obtainable by a concourse that tunnels its way underneath the city, stretching along its route, an array of richly studded shops.

Although older and smaller than the Sheraton, the York is equally impressive. The era of its construction gave it a different atmosphere. Large chandeliers hung low, a spiral staircase wound its way up to the lobby, and deeply colored rugs covered the marble floor (whose fossils I happened to overhear two geologists discussing).

The sessions were assorted between those that were extremely interesting; those not so interesting; those being very informative; and others that went completely over your head. Some of the interesting sessions attended were those concerning structural geology, glacial, sedimentary petrology, extraterrestrial geology, paleontology, experimental mineralogy and the Womens Geoscientists booth.

As the students were busy running from ballroom to ballroom, deciding which talk to miss and which one to hear, the Profs. had their hands full also.

Norm was quite busy interviewing candidates for the geochemist position. Every so often, several students would check in to see how the interviews were going. We usually found him worn out, but still smiling.

Tom Hendrix also helped with the interviews, and gave a talk Monday afternoon, assessing the results of a questionnaire he and Lee Sutner composed for geology field camps. The talk had a warm and friendly touch much like his class lectures.

Jack gave a talk on Wednesday morning concerning the nature of polyphase deformation in the Foxe Fold Belt, which is the area he is presently working in. The tone of his talk was also much like his lectures. It was an excellent informative talk. Needless to say, Jack sparked the enthusiasm in us all again.

Ed attended many of the talks with us and spent Monday at lunch giving us one of his pep talks. I think a few minds were a little more settled, and a little less confused. Thanks Ed!

After a full day we would assemble in the Sheraton lobby and venture out for a night of cocktail parties and dining. Chinese food was on the menu Monday night as our party of 14 ventured through Chinatown. Tuesday night was Italian food, after first being turned away from a posh restaurant because of their dress code, and our dress. After dinner we made an attempt to travel up to the top of the CN Tower but again our dress didn't conform to the code.

All in all the trip was a success. Fast and efficient organization helped, along with agreeability and cooperation. The students enjoyed Toronto, the convention, and seeing Ed, Jack and Mariette.

1980 Spring Ozark Trip

Tom Hendrix showed 16 GVSC geology majors through the Ozark-Ouachita region over Spring Break this year. We travelled in 2 vans, communicating by CB radio, for 10 days, through Indiana, Illinois, Missouri, Arkansas, Oklahoma and Tennessee.

We looked at the karst topography of southern Indiana and the fluorspar district of southern Illinois. In Missouri we saw the geology of the Taum Sauk area, Viburnum trend, Pilot Knob iron deposits, and more karst features. We studied the physiography of the Ozark Plateau and the structure of the eastern Ouachitas. Other activities included a visit to the Magnet Cove igneous complex in Arkansas and collecting Eocene fossils in Tennessee.

Some of the highlights (?) of the trip were crawling on our bellies, through water and mud, in a cave in southern Indiana (no showers afterward), visiting the Viburnum lead/zinc mine, climbing Pilot Knob, seeing the Magnet Cove igneous complex, seeing real outcrops (!), with folds (!!!), and, of course, collecting 5 tons of rock samples. People looked skeptical when we explained that there were few outcrops in Michigan.

We got very excited when we were able to camp at a place with cold running water. We could hardly contain ourselves when, after 7 days on the road, we found a campground with hot showers!

The weather was good most of the time - it got down to 16° F. one night, however. That was a little too cold to be comfortable. And, Cheerios with frozen milk for breakfast was no fun either. Evenings were spent in town and usually got everyone enough "antifreeze" to remain warm on subsequent cold nights.

Most of the people down south were very friendly (had a strange way of talking, tho'). A few weren't; one man wanted to shoot our driver for using his lawn as a driveway. Another lady wanted us to pay \$25 per van to look for fossils on her property (we didn't look). Many Arkansan people were surprised to learn that the Ouachitas are in Arkansas.

Tom and the 16 majors who went got to know each other better (too well in some cases?), and all came back with a renewed enthusiasm for geology - enough so that starting spring term classes the day after we returned didn't seem all that bad.

CHRISTMAS PARTY
1979

Another Christmas party was a resounding success. Sixty persons attended, 17 of whom were alumni dating back to 1968. Several attending alumni are not geology graduates but are either married to or "friendly with" geology alumni. Unquestionably the food and decorations were the best ever (and since the lounge was like an icobox, the food kept well - and then Dave Anderson showed up and we didn't have to worry about spoilage anymore). Ann Bijkerk and her food committee made up of Ginny Peterson, Janet Tower, Suzanne Pearce, Dave Anderson and Andy Siersma spent from 10 a.m. til party time and beyond bringing us the fanciest, most luscious goodies imaginable. Several guests, who shall have to remain anonymous (but not unthanked) since we didn't keep records, brought more goodies to the party. The decoration committee headed up by Nancy Demorest and staffed by Steve Aumgst, Dave Anderson, Rick Stolarz and Susan Bol did a fantastic job making the lounge beautiful and festive. The only sour note was to see Steve (alone) at 2 a.m. cleaning up and Nancy (again alone) at 11 a.m. also cleaning up. Next year let's have a cleanup committee! NOW FOR THE GOSSIP! Dave Rogers, '69, was there with his wife Glenda (Math) '68. They seemed to revel in making a point of the fact they preceded yours truly at Grand Valley. Joe Mark brought a friend. Larry Fegel, '73, brought Joe and, not secondarily, his wife, Mary Kay. Once he got her away from the phone where she was checking up on their babysitter's progress, everything settled down and they seemed to have a fine time. Dale Mason brought Lynne Wolfe and they didn't fight once the whole evening - they have the strangest way of showing their affection - would you believe Karate? Of course, Bill Neal brought Mary but she managed to get away from his boring stories by interviewing and photographing alumni for alumni relations (whatever that is). Monica Lack, '79, came from St. Louis where she's employed by the D.O.D. in matters so secret they won't even tell us what the initials mean (we can thank Dave Rogers for the jobs Monica, Gary Hartsock and Cathy Cline have gotten at the St. Louis location working with aerial photography for Uncle Sam's DOD - whatever that is!). Ken Olsen, '73, never showed up (even though he said he would), but Barb Scribner did, or at least part of her! Ron Green, '78, and his favorite roomie, the captivating Debbie Doan, came all the way from Utah to see us. Tom Baldwin, '79, was happy to see all his old friends - he sat with him and conversed for a full five minutes. Stick Rolarz was there, flush from just having made a killing in the market - he and Larry Bilsky sold all their Christmas trees before the needles fell off. Craig Shoemaker, '76, brought his friend, Diane Pyatt. Shirley and Simon Francis enjoyed it so much their goodbyes lasted a full hour. Chris Waythomas arrived late, looking lonely - not knowing whether he was thankful to the Ayatollah or not. Scott Bowen (77-78) said he'd grace us with his presence but probably wised up and stayed in Texas. Marlene Leistico, '79, said she didn't bring her spouse because the last time he was standing around all night holding her coat - and she wasn't ready to leave such a gala event. Rhoda Burgess kept staring at Hal Byram all night saying "I don't believe it, I don't believe it!" Hal just pushed in his dimples further, gave is curls a little twist and smiled. Bill Hazard smiled too but that was for another reason. So that they shall not remain nameless, several other friends were there e.g., Nancy Mackiewicz's friend Ann Applegate was there - or was she Hal's friend? I never did figure that out. Jeff Coleman brought his friend and Suzanne Pearce hers, Susan Bol (or is it Sue)? Eric Christrup, '74, without Elaine, who was ill, came looking for a poker game. Would you believe he had no wife to nag him and Tom Bee, '74, forgot his penny jar? Loyal Suntken (Anthropology) '76, hasn't changed a bit except he's discovered girls as evidenced by "Millie from Texas" on his arm. Tom Hendrix and Nina attended their first Christmas party - he was overhead saying, "why didn't you bring me to one of these before I accepted the job?" Of course, the Lefebvre's were there almost in force. Sandy at the piano and the punch bowl - Lauryl this time as a bona fide geology major. And finally, if I've inadvertently missed anyone, please accept my apologies. The only reason I was sure I was there was because when our house cats clomped across the carpet the next morning it almost drove me out of bed and up the wall.

VISITORS TO THE DEPARTMENT

The Department has had so many visitors since the last Newsletter it would be impossible to list them all. Many of them gave talks for which we will be forever grateful. Some of the speakers were candidates for the two most recently filled positions in structural geology and geochemistry. Some were from alumni such as Roger Haskins ('73) who presented an outstanding lecture on geophysical techniques as applied to mineral exploration, and Doug Thorpe ('74) who gave an interesting account of his Master's thesis project in the Squaw Peak Area, Maricopa County Arizona. Both Jeff Martin '75 and Jeff Spruit '75 presented papers at the Michigan Academy of Arts and Sciences held on the GVSC campus back in March, 1979. They too discussed their Masters thesis work at Western Michigan University.

Some other outstanding visitors included two U.S. Geological Survey geologists who helped us celebrate that organization's Centennial year. Mel Kuntz from the Central Environmental Branch of the USGS in Denver visited on April 20, 1979 and gave an account of his work on the Snake River Plain, Idaho. He and Dick have collaborated on the Craters of the Moon investigations as well. Richie Williams from the EROS program office of the USGS in Reston, Virginia visited on April 24 and gave a talk on his environmental studies in Iceland using LANDSAT imagery. On February 4, 1980 Chris Schmidt of Western Michigan University told us about his recent investigations of resurgent faulting in Montana.

OTHER DEPARTMENT ACTIVITIES

The Geology Department hosted the Michigan Academy of Arts and Sciences Geology-Mineralogy section in March, 1979. Norm Ten Brink and John Warren gave talks at that meeting as well as the two alumni mentioned above. The Department also hosted the last two Michigan Earth Science Teachers Association spring meetings in 1978 and 1979. A good turn out of students and teachers attended the talks and field trips which followed. Norm Ten Brink, Bill Neal and Dick Flanders gave the lectures on topics relating to the local geology and archaeology. Both faculty and geomajors acted as field trip leaders.

ABOUT GEOLUINI AND OTHER FRIENDS

Anderson, Boyd Group Science, 1975

I got married August '78 to Annemarie Schoenborn (CMU '74). We managed the Side Door Party Store in Holland until we moved to G.R. (summer '79). I'm now a territory Sales Manager for Burroughs Corporation in G.R.

Antonides, Roger Geology, 1972

We have a little boy (1 year) named Joshua. Roger works at the "Wood Stove Place" in Allendale.

Arnold, Mark Geology, 1975

After working for an engineering company for four years, I left for a job with the government. Wouldn't you know it, funding got cut and now I'm out looking again. Linda and I are expecting our second child anytime now.

Atwell, William Earth Science, 1974

Presently I am a mechanical design engineer at Bendix Autolite Corporation in Fostoria, OH.

Austin, Larry Geology, 1974

Geologist, Williams & Works, Inc. Primarily groundwater occurrence, movement and quality investigations. Also glacial geological and hydrogeological investigations. Getting married in April to Mary Homrich. Presently involved in design and pre-construction engineering of a passive-solar earth sheltered house.

Baker, Tim Geology, 1977

Business address: Dart Oil Company, 600 Dart Road, Mason, MI 48854

I'm currently with Dart Oil and Gas of Mason, MI as an area engineer and am involved in the evaluation and exploration of petroleum, specifically in Michigan. (My area is in Northern Michigan). I will be moving to the Lansing area in the next couple of months as field work is over and I will be in the office from now on!

Baldwin, Tom Geology, 1979

I'm doing fine. You know what I'm doing, so why do I have to answer this? Oh well, I'm currently a grad teaching assistant at Wright State University working towards my Masters degree in Nuclear Physics. Really, I'm anxiously awaiting the day when I can put all my vast knowledge to work for some fine oil company. What do you think of that Ron Green? This response may need editing, please feel free to do so. (Editor's note: if we had, you wouldn't be hearing these half-truths from Tom Baldwin.)

Bedsun, Dave Geology, 1978

I'm in Albuquerque working for Ed Tremba. I've just finished a report on 20 MX valleys in Nevada for the Air Force. What an ordeal! I'm currently studying for a Masters in C.E. (soils). Should take 4 years at 1 class/term.

Bee, Tom Geology, 1974

Tom has started his own mineral business - Topaz Mineral Exploration - in Grand Haven. He particularly likes to deal in pseudomorphs.

Bierlein, Wendy Geology, 1977 (married name is Thompson)

Where are you Wendy?

Bishop, Mark Earth Science, 1974

Mark is now teaching 5th grade at West Elementary in Grandville after spending the last 5 years in South America.

Booker, William Geology, 1970

Whereabouts unknown

Bowden, Doug Geology, 1974; MS, Michigan Tech.

Sue and I are still in Salida, Colorado enjoying the mountains and x-country skiing (out our back door!). I'm also still wandering through the mountains looking for base and precious metals in high grade metamorphic rocks. Stop in if you're out this way; we're in the phone book.

Bowen, Scott (1976-78); BA from Oberlin before attending Grand Valley
Department of Geology, Rice University, Houston, Texas 77001

Things are going well here in Houston. I have recently accepted a position as exploration geologist with Shell Oil Company - should start sometime in June. About that time I hope to have completed my defense and should be working on the final draft of my thesis. I was in Corvallis, Oregon in March for the Cordilleran section of the GSA where I presented a talk about my work in Nevada. If anyone is wondering about schools or jobs down here, don't hesitate to contact me. Houston is still a "boom" town - and there are a lot of jobs available. Good luck to everyone.

Bowles, Harry (Bud) Earth Science, 1972

7326 Thorncrest, Ada, MI 49301

Teacher - Earth Science - at East Kentwood High School. This is still the best job I ever had.

Bravender, Lynn (1975-77); BS Biology, Kalamazoo College, 1971

300 Paris SE, Grand Rapids, MI 49503

Lynn and Patricia have a new son, Donny.

Brintnall, Art Geology, 1970

Married, 1 child and another on the way. Working for Prein & Newhof Engineering for the past 9 years in surveying.

Broughton, Jill - see Pedden

Brown, Leo Geology, 1972

Whereabouts unknown

Burgess, Rhoda (1976-77)

Secretary for the Federal and State Marketing Department at Williams & Works.

Eyle, Chris Geology, 1977; MS, Duke University

Chris completed his work on New York Devonian microfossils, and is currently on the job market.

Cates, Delores TJC (1977)

I'm working in Nevada for the BLM writing reports on the geothermal resources of the Winnemucca District.

Christrup, Eric Earth Science, 1974

I'm on layoff at Coopersville and am installing lawn sprinklers and looking for another teaching position.

Cline, Cathy Geology, 1978

Cathy is at Grand Valley taking additional courses and hopes to get teacher certification soon.

Corbett, Larry Earth Science, 1973

I am teaching Physics and Biology at East Kentwood High School and have done so for 7 years. I also coach junior varsity football and enjoy it greatly. I earned a Masters Degree in Educational Leadership in 1978. I would like to get back into Earth Science again, however, it may be a while.

Curtis, Tom Geology, 1969

Are you still in the Air Force Tom?

Covyeau, Sally (nee Markley) Group Science, 1973

Married last April. My tennis pro husband and I reluctantly left our 150 year old cabin in Ohio for big city living. Richard and I live in Rockville, Maryland and I am employed as a systems analyst for Systems Consultants, located in Georgetown, D.C. Part of my duties include writing Technical Instructions for contractors and Naval activities in the Navy's largest ship-building effort, and I'll be studying Information Management Systems at Georgetown University. Marriage, working and living in Washington, D.C. area are marvelous. P.S., I'll be happy to serve as tour guide to the local Lafayette Plateau/granite and marble monuments for any old friends in the area.

Decker, John Geology, 1979

2A, Oaks Motel, Brooksville, Florida or Southwest Florida Water Management District, 5060 U.S. Highway 41 South, Brooksville, Florida 33512

Geologist - Gamma Ray and resistivity water well monitoring. This position seems to be the type of work I was looking for. I sure like the warm climate and the ocean. Tell Mike Swayze to stop at the above address when he comes to Florida.

Dexter, Jim Geology;

Collection and evaluation of data for the National Uranium Resource Evaluation (NURE) program is being carried out by the Dept. of Energy and its prime operating contractor, Bendix Field Engineering Corp., my employer. My job involves writing geologic descriptions of "control areas", areas where both geologic and economic information is available. The other half of my job entails eliciting information from principle investigators. Each P.I. is responsible for evaluating 8,000 mi² quadrangles for environments favorable for the occurrence of at least 1 uranium deposit of 100 tons or more at a grade of at least .01% U₃O₈. Occasionally, there can be some field work, for example, I recently spent some time in Spokane, Washington and Gunnison, Colorado. A good and interesting job for someone with a family. I still have to finish my thesis (everything's done except the writing) to get my MS from Western. Mary Ellen is working as a teacher in a pre-school. Myles is in 1st grade and Daniel is in kindergarten so we're all pretty busy. We plan to spend about 1 week in Michigan (G.R.) this Christmas so hopefully we'll see you all at the annual 1980 Xmas get-together.

Degnon, Lesley (1975-76)

I don't know what I will be doing besides working for McDonald's Corporation, should my broken ankle ever heal. Otherwise I will be homebound for another 2 months with another cast. In the fall I hope to return to Grand Valley as a part-time student.

Den Besten, Clare (see Rollings)

Dombrowski, John Geology, 1973; MS, Washington State University
6275 Canterbury Dr. #206, Culver City, California 90230

Marital status: still single and screening qualified applicants. Professional status: in my 5th year with Texaco here in L.A. Current assignment: exploration of natural gas in Northern San Joaquin and Sacramento valleys of California. Active in Pacific Sect. of AAPG (Treas. of L.A. Basin Geol. Soc.) Hobbies: working very hard this year on improving my skiing ability. Hope to visit you at GVSC sometime this year!

Dornbos, Del Earth Science, 1976

Last we heard he was headed toward Calgary, Canada, to teach. Does anyone have an address?

Doublestein, Jeff Earth Science, 1979

Jeff is teaching at North Port High School. He is their lone science teacher and has been teaching physics, chemistry, biology and physical science since he started in the fall.

Emelender, Lon Business Administration, 1978

Lon is working for Anderson Automation in Grandville. He majored in Geology in those early years and he and Dick bump into each other occasionally.

Fegel, Larry Earth Science, 1973

Larry is teaching science at City High School in Grand Rapids and is the proud father of Matthew Joseph (11/20/78). He and Mary Kay are expecting their second child.

Feyen, Alan Earth Science, 1972

Al attended an electronics school in Grand Rapids and has since moved out of town. Where are you Al?

Fink, Ray Group Science, 1971

Does anyone know if Ray is still teaching in the area?

Francis, Shirley Anthropology, 1974

Although I only took a few courses in Geology, it has made a more profound effect on me than any other subject. For what is more basic - what other foundation do we have than Mother Earth! For the past two years I have been Health Coordinator for Kent C.A.P. Head Start Program, which serves 700 preschoolers and their families in 18 centers throughout G.R. and Kent County. Looking forward to your Newsletter!

Fultz, Larry Geology, 1977; MS, Michigan Technological University

I have recently started working for Geophysical Services, Inc. (subsidiary of Texas Instruments) as an entry level Processing Geophysicist here in Denver processing seismic data for oil and gas exploration. Otherwise - doing a little skiing and just taking it easy. Looking forward to reading the Geo-Newsletter. Take care!

Gebhard, Dennis Geology, 1969; MS, Western Michigan University

I've been employed by Williams & Works in G.R. for the past 8 years. In recent years most of my work has been in hydrogeologic evaluations of landfill sites, land application wastewater treatment sites, and groundwater contamination problems in various soils. Other areas of involvement are the location and design of large municipal wells, surface water hydrology and EIA's. In April of 1979 I finally received my Masters from WMU. Nine and 1/2 years to finish a Masters degree must be a record of some sort.

Green, Ron Geology, 1978

Ron is working on his Masters degree in Geophysics at the University of Utah. His thesis area is in southwestern Utah where he's involved in a geothermal study.

Grodecki, Steve Geology, 1975

I never thought I could leave Michigan and like it, but Oklahoma has treated me well. After a two year stint as a mud logger, I was hired by Curtis Turney, a locally famous geologist. I still log wells for him but about half my time is spent drawing maps and working up deals, and some glorious day in the near future, I will be able to claim responsibilities for some new production! There are jobs out here if anyone is looking. Contact me at this address and I'll see if I can help.

Hall, Jack Geology, 1977; MS, University of North Carolina

Hope everything is going well at GVSC. Well, I am at Univ. of North Carolina at Wilmington teaching geology and geography. I will be here through 1981. My MS was on Conodonts of M. Dev. of Central N.Y. and I will begin Ph.D. work in the fall. Take care! Hello to all.

Harshfield, James Geology, 1972

Currently employed as a marketing financial analyst for the Ford Motor Company. After leaving GVSC, I spent 4½ years in the Navy, most of it in Hawaii. I was separated from the service in October, 1976 and enrolled in the Business School at Western Michigan where I received my BBA in Economics in June 1978 and MBA in Finance in August of 1979.

Hartsock, Gary Geology, 1979

I'm working as a cartographer in St. Louis for the Department of Defense. I like the job but it's not for everybody. For further details, write me. I think they will be hiring in June.

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

Roger's business address is U.S. Dept. of Interior, BLM, Sacramento State Office, 2800 Cottage Way, Sacramento, CA 95825

Effective 2/24/80 Roger will be State Geologist for the Bureau of Land Management, Sacramento, California. Roger will be responsible for the state's (Federal lands) geothermal, oil and surface mining programs. Susan will be transferred to Folsom effective 6/15/80 to work as a geologist for BLM in the Mother Lode of the Sierra Nevada!! This involves mining law and trespass work, mainly in Au and W minerals. We will be in Riverside until June, 80 and then move up the the Folsom area.

Hewlett, Julie (see Kampa)

Hiler, James Earth Science, 1974
Where are you Jim?

Hoving, Sheryl Earth Science, 1977

Sheryl taught junior high science for one year then decided to switch careers to keep her sanity. She has been taking geology courses at GVSC this past year (79-80) and will be attending graduate school next year, working toward a MS in Geology.

Hull, Doug Geology, 1977

c/o Geology Department, Bowling Green State University, Bowling Green, Ohio
43403

I'm in the very last stages of finishing my Masters. I've just handed my second draft to my advisor (Charlie Kahle) and it looks to be in very good shape. I start work for Phillips Petroleum, March 10 so I will not be able to give my defense before I leave, not enough time! I'll have the thesis professionally typed at Phillips and fly back for my defense as soon as I can. I'll send a copy to the GV Geology Dept. when finished! It's taken me a while but I'm almost there. Take care.

Hunt, Herb Geology, 1969

Herb has been on the Walker Police Force since graduation. He says he especially enjoys revisiting with GVSC faculty as they pass through Standale at 41 mph.

Huyser, Dave Group Science, 1968

Where are you Dave?

Johnson, David Geology, 1974

Dave moved to a farm in Newaygo never to be heard from again.

Jordan, Mark Geology, 1977

I'm well into my 2nd semester at Arizona State University - pursuing an engineering geology MS program. Presently we're undergoing heavy flooding and rain - hard to believe it's a desert here - Best wishes to all - see you (maybe in the summer)

Kaminski, Mike Geology, 1974

Williams Brothers Eng. Co., P.O. Box 4-2473, Anchorage, Alaska 99509
Current assignment: Project Manager of Ground Temperature Monitoring Program for 800 mile-long gas transmission line, Prudhoe Bay to the Yukon Border, Alaska

Kampa, Paul and Julie (nee Hewlett) Geology-Anthropology, 1977

Paul is working for Gladd Industries in Detroit, an industrial equipment manufacturer, doing everything from cost-estimating to project-engineering. He is also being certified as an EMT person for the Clinton Fire Department Reserve Squad. Julie is finishing her Masters in geology at the University of Michigan. Thesis topic is heavy mineral analysis of cave sediments from Lebanon & Greece. She's also assisting Dr. W.R. Farrand with the Michigan portion of the New Quaternary Map of the U.S. Rebecca is 3½ and is driving everybody crazy with questions.

Kelly, Diane Geology, 1978

Naturally, I'm close to deadline per usual. Well, after approximately 1½ years of "discussing with Records", I've finally gotten them to agree that I've passed Calc (imagine, only 1½ years!) Now if I can just convince them that I need my diploma -- After field camp, summer '78, I've been working for a survey-engineering firm in Taylor - I enjoy it. I did work for a material consultants firm for a while, but it was kind of boring so I left (and returned to surveying). Future plans? I don't know as of yet, whether I'll stick around Michigan, go out west and get a job, or go to grad school.

Kinball, Greg Geology, 1978

Lost in Wisconsin somewhere - anyone know where?

Korving, Geri Earth Science, 1973

Lost in Grand Haven?

Lach, Pat Group Science, 1969

Pat, do you still teach in the Grand Haven area?

Lack, Monica Geology, 1979

I'm presently employed as a cartographer by the Department of Defense at Aerospace Center in St. Louis, Missouri. I'm also taking engineering courses at Washington University in St. Louis. In August I hope to return to school full-time at the University of Missouri at Rolla and receive a second bachelor of science degree in civil engineering with an emphasis in hydrology.

Leistico, Marlene Geology, 1979

Chemist-Quality Control Lab, Herrud & Company. Run analyses of meat products which determine percentages of protein, fat, moisture, salt, collagens, etc. Maintain a home and family. Daughter Ann, age 15, 10th grade, was elected to the National Honor Society.

Losey, Tim Geology, 1968; Ph.D., Anthropology, University of Alaska

Box 204, Tomahawk, Alta, Canada TOE 2H0

Since 1974 I've continued teaching Archaeology Methods in the Dept. of Anthropology/University of Alberta in conjunction with research on historic fur trade sites in Alberta. My wife, Jenny, and I now have three children (boys) and we continue to lead a rather quiet lifestyle in our log house, 70 miles west of the city (Edmonton). Aviation continues to be my most active "sport"; Jenny's first love is still horses (then me).

Lugthart, Doug Geology/Anthropology, 1969

Someone said Doug is an artist in Grand Rapids - are you Doug?

Marcus, Sue - see Haskins

Markley, Sally - see Coveau

Martin, Jeff Geology, 1975

c/o Geology Dept., Western Michigan University, Kalamazoo, MI 49001

Jeff, have you graduated yet?

Martin, Linda Geology, 1979

UVM, Dept. of Geology, Perkins Geology Hall, Burlington, Vermont 05405

Hello! Graduate school at UVM is going well. In the midst of spring term now. I'm enjoying my teaching and school work. Will be TA'ing a field trip to Newfoundland, Quebec, Nova Scotia, etc. during May and June. Looking forward to that! Probably will be doing my thesis in S. Quebec but am not certain about that yet. Enjoying Vermont - managed to get a bit of x-country skiing in during this snowless winter. Hope you receive this on time. Can't wait to see this long-awaited Newsletter!! Take care.

Matthews, Mike Geology, 1970

I'm the project manager of the development of a \$1/2 million dollar resource recovery project which will recover methane gas from solid waste. Presently I am in the middle of this project's geologic and soils investigation. Investigating and correcting illegal hazardous waste dumps are also part of my activities as an environmental engineer with the Tennessee Valley Authority. My wife, Susie Jo,

is actively developing a computer-oriented land use plan for the city/county Planning Commission. My wood working and our house take up most of my spare time. On the weekends, we frequently tour the Appalachian regions of the south.

Morris, Mike Geology, 1970

Olsen, Ken Earth Science, 1973

2106 Prospect NE, Grand Rapids, MI 49505

Ken is with the Mortgage Department of Old Kent Bank. He ran into (over) Dick in the Old Kent River Bank Run (25 km) last spring.

Page, Richard Geology, 1971; MS, Univ. of Texas, El Paso

1245 Napier Crescent, Oakville, Ontario L6H 2A5

We think Dick is still employed by the Ontario Geological Survey.

Paden, Jill (nee Broughton) Geology, 1975

Since Jill and John's wedding, we haven't heard from them (?!?!)

Paden, John Geology, 1975

Where are you and Jill?

Perry, Lyle Geology minor, 1977

I liked Marquette so much during our field trips up here that I couldn't stay away. I'm working on an English Masters at NMU after having spent two years in Zaire with the Peace Corps. The teaching assistantship at school and the 40-odd hours a week as a janitor in a local bank are keeping me pretty busy. Tell Steve Aungst that's why I haven't written him in so long - Hello Steve! Somebody write; I'd love to hear from anyone.

Plomp, Pete Geology, 1978

Pete has been seen around GVSC every now and then at social events, not classes!

Reck, Don Geology, 1974

I am just finishing my thesis for a Masters degree from Sul Ross University. I have a few job prospects in Midland and Houston, Texas but will probably end up at Midland. I currently am publishing my thesis and presenting it at a meeting of AAPG Permian Basin Section in El Paso.

Rogers, Dave Geology, 1969

Dave must have figured that since he consented to grace us with his presence at the Christmas party he didn't need to write too! He's still with DOD in St. Louis keeping our defenses up and our graduates employed.

Rollins, Clare (nee Den Besten)

George W. Rollins and I were married 28 December 1979. He is an officer of the line in the U.S. Navy Submarine Force. He did his undergraduate work in electrical engineering at Univ. of Kansas and is currently working on his Masters in Communication Engineering at Naval Postgraduate School, Monterey, California. We'll be here until mid-June. After that, we go to Connecticut and he goes to sea. I'm learning how to be a career officer's wife, which is a challenging career in itself.

Rutherford, Julie Geology, 1972-77

Married Jack Bruinsma April 7, 1979. Just got "official" project manager status - first girl at Williams and Works. Chairman (person) of the G.R. Public Museum Planning Committee, Geology Task Force. I'm giving a talk at the MI Chapter AWWA meeting on Mackinac Island this fall. I figure it took me two years to get broken in at W & W - it will take at least that long to acquaint myself to the kitchen. Egg rolls are all I know!

Sartoris, Doug Geology, 1976

Work for Salisbury & Dietz, Inc., a geologic consulting firm as a project geologist. Just completed a two-year project which will be published probably in the next year. Sartoris, D.J., Gilmar, E.H., Salisbury, W.G., McKee, C.J., 1980, Uranium Resource Evaluation Butte Quadrangle, Montana: in preparation to be open filed.

Satterfield, Gloria Group Science, 1971

Where are you Gloria?

Schriber, Craig TJC, 1978

c/o Dept. of Geology, Washington State University, Pullman, Washington 99164
Hope things are going well for all and the spring finds you busy making plans for the upcoming field season! I'm out here in the beautiful(?) Pacific Northwest working on my MS degree in structural geology. Talk about Polyphase!!!
Wow, nice Rx. out here! I'm living in Idaho (just across the border in Moscow) and playing a lot of music. I'm in a country band and a jazz combo. Life is good out here. Take care.

Schulz, Bob Geology, 1975

Hard to keep up with the Schulz's. They spent a good part of last summer in a tent trailer at Spring Lake. Later they were reported to be back in the west. Where are you?

Schulz, Jim Geology, 1977

See above (That's right Jim. As a twin, all you get is "see above" until we hear some news from you!)

Sharpton, Buck Geology, 1979

It's not hard to find something to do here at Brown. In fact, I've had to cut back on my coffee breaks to two, maybe three per day. Right now I'm preparing for a week in Houston at the Eleventh Lunar and Planetary Science Conference beginning March 17. This will necessitate spending the spring vacation catching up on class work and research. Well, it's a lot of work, but oftentimes exciting and sometimes it's even fun. (Editor's note: Buck is already working on his first geology publication!)

Shoemaker, Craig Geology, 1976

1350 Jeffrey Street, SW, Hudsonville, MI 49248
I work for Materials Testing Consultants in Grand Rapids as a geologist. I have inspected rock footing for 2 large buildings in the downtown area, done hydrogeologic studies, soils investigations for foundations, and managed soiltest drill crews.

Seif, Carl (Sr.)

953 W. Lakewood, Holland, MI 49423
Carl is working for Lithabar Company, a machine company in Holland.

Sims, Fran Geology, 1978

I have been employed as an exploration geologist for Houston Oil & Minerals Corporation, which is Denver-based. My major emphasis is on geologic mapping and exploration for base metals throughout the interior of Alaska.

Sinke, Robert Earth Science, 1973

Bob is employed at Meijers in Grand Rapids.

Smith, Greg Earth Science, 1976

Greg is teaching at West Middle School in Grand Rapids. Attended a NSF Seminar entitled "The Chemical Feast" last summer ('79)

Smith, R. C. Earth Science, 1977

Bob and his wife, June, are back from Iran after experiencing a revolution first hand. Both are working in Grand Rapids at the Phone Company and Rogers High respectively, and are taking classes in graduate work at Grand Valley.

Spruit, Jeff Geology, 1975

Still at Western (Dexter was unsuccessful in springing me. Send a new agent, ha-ha!) I'm 3/4 way through my 1st draft of the thesis, and should be done - knock on wood - at summer's end. I have a couple of job prospects - nothing definite yet - with Phillips Petroleum and believe it or not, the CIA (photo interp. or mineral resource assessment). Rock on!

Suntken, Loyal Anthropology, 1976

I just recently returned to Texas after completing some electrical surveys in Montana and North Dakota, about 50 mi. south of the Canadian border. Very cold at times 30°-40° (W.C.) below zero. I'm still working for Elfex Research and Exploration, Inc., working towards my 3rd year with the company - and still plan on getting into grad school but when is a "?". Electrical surveys for oil and gas are just starting to make it into the orthodox circles of exploration so I'm waiting to see what happens.

Ten Harnsel, Ron Geology, 1979

Ron's in grad school, Eastern Kentucky University

Thorpe, Doug Geology, 1974; MS, Arizona State University (we think)
c/o Conoco, 2020 No. Forbes Blvd., Suite 105, Tucson, Arizona 85705
Doug is currently working for Conoco in Tucson, Arizona - we think!

Tondu, Joe Geology, 1973; MS, University of Texas-Austin

Married; wife Linda is an interior designer. Have my own company (with partner) called Lexington Exploration with staff of 4 geologists and 1 accountant. Exploration is in Texas-Louisiana Gulf Coast area. Going into minerals and coal in the future.

VanderLaan, Steve Group Science, 1974

Currently teaching 4th grade in Caledonia Community Schools. He is married, and the father of 3 children. Recently completed coaching girl's varsity volleyball at Caledonia High School. He is also president of the Caledonia Education Association.

Verseput, Tim Geology, 1978

Currently I am finishing my MS thesis at Southern Illinois University. I have accepted a job with Arco and will be moving to Dallas, Texas in July (this is just a step closer to managing the Dallas Cowboy Cheerleaders).

Verwoert, Dan Geology, 1970

Presently I am working as a hydrogeologist at Wright Water Eng., primarily responsible for managing environmental baseline studies for the energy industries. Denver is a very active center for geologists and jobs are plentiful, as the Denver Post want ads list several openings. I have recently begun working on "water rights" involving court testimony as an "expert" on groundwater. Usually the family drives into the mountains on weekends to ski in the winter and to explore abandoned mines during the summer. Stop by when you are in the area.

Videtich, Pattv Geology, 1976

Grad School, Brown University. Carbonate geology. Year #4 and counting. Hope to be out by June, '81. Will probably be out by September '81. Hopefully, with a Ph.D.

Vrona, John Geology, 1977; MS, Southern Illinois University

I finished my thesis on schedule but didn't get any younger doing it! What a panic. If you don't recall, I worked on an ultramafite in North Carolina. Primarily structural petrography exercise i.e., comparing the ultramafites internal structure both microscopic and mesoscopic to the overall mesoscopic structure of the surrounding country rocks. As you probably know these bodies (the ultramafites) are believed by many to allochthonous portions of oceanic upper mantle material probably emplaced during the Ordovician Taconic orogeny. It is then supposed that they should manifest some type of pre-emplacment fabric that was mantle derived that remained during their upper crustal emplacement. As it turns out the body I studied appears to have a pre-emplacment fabric and so as additional information is obtained about other similar bodies in the Appalachians, our understanding of how the Appalachians really formed will have to be re-evaluated.

So what am I up to now? Well, first off, I got married to a great little girl from good old G.R. Then I took a job with Sun Production Company. I'm presently working in Houston, Texas. Work is just fine but this city leaves much to be desired. With the high humidity, dense population and absence of seasons, I don't recommend Michiganders to venture into this neck of the woods (opinion). With the increase in exploration and production in Michigan, I may attempt to move back home. My problem right now is making the appropriate contacts. I'd be interested to know if any GVSC grads are getting any Michigan oil patch experience; it seems that the opportunity is certainly there.

I'm really looking forward to the newsletter.

Waggoner, Guy Geology, 1976

Graduate School of Oceanography, University of Rhode Island, Kingston, R.I. I am presently at the Univ. of Rhode Island working on my Ph.D. My proposed thesis topic is the Isotopic and Trace Element Geochemistry of the basalts dredged from the Mohs and Knipovitch Ridges, which are located north of Iceland. I will be going on an oceanic research cruise this spring (April 12-May 16) on the Woods Hole Oceanographic Institution's RV ATLANTIS. We are sailing from Cape Town, South Africa to Rio de Janeiro, Brazil with a stop on the island of Tristan da Cunha. We will be dredging along the Mid-Ocean Ridge north and south of Tristan and doing collections on the island.

Walters, Jim Geology, 1970; Ph.D., Rutgers University
Asst. Prof. of Geology, Department of Earth Science, University of Northern
Iowa, Cedar Falls, Iowa 50613

I'm a research associate with the Center for Northern Studies, Walcott
I've been working with the Center on a National Park Service funded project in
Interior Western Alaska for the past few summers - I'm currently president of
the Geological Society of Iowa. Wife, Bonnie; 1 child, Jennifer (2 years)
(Editor's note: Dick saw Jim at the North Central GSA meeting in Bloomington
and would like to announce that Jim received tenure this year.)

Waythomas, Chris Geology, 1979

Greetings from coal country! At the moment I'm not doing anything but when I am
doing something, I've been working with Norm on his Alaska project. Specifically,
that includes aerial photographic mapping, measuring the degree of weathering on
amphiboles and pyroxenes (a long story) drawing strat. sections, reading, writing,
scratching my head when ^{14}C dates defy geologic principles and things like that.
In the meantime, I've been training for the Olympic marathon trials as well as the
Boston Marathon. Slowly and somewhat reluctantly getting used to a bigger school.
ce' la vie! Good luck with the Newsletter

Ward, JoAnn Geology, 1975

We only have local family address for JoAnn - 2641 Shagbark, Grand Rapids,
MI 49506. We think she's working for Texaco.

Werner, Al Geology, 1979

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Attending SIU-Carbondale and teaching undergraduate geology labs. Plan to
return to Alaska during the summer of 1980 and work out the geology of an
archaeological dig and the geology of the surrounding area.

White, Frank Geology, 1969

Am employed by the Naval Weapons Center at China Lake, California in the middle
of the Mojave Desert, about 90 miles from Death Valley. I am a radar crew chief
and electronic engineering technician at the Electronic Warfare Threat Environ-
ment Simulation Facility (we develop and test radar systems and jammers). I like
the desert life (and the lack of snow), in this town of about 35K people. Still
single, enjoy camping, jeeping, electronic music and am a Hi-fi nut! Good to
hear and thanks for keeping in touch.

Wiley, Ken Geology (WJC), 1979

Keck Consulting Services, 4903 Down Avenue, East Lansing, MI 48823
What are you doing Ken?

Williams, Richard Earth Science, 1973

Richard works for BASF in Holland and taking a chemistry class at GVSC this spring.

Woerns, Rolf Geology, 1970

Presently living in Kitchener, Ontario, Canada. Teaching school in Cambridge,
Ontario. Recently became proud father of a baby girl, Nicola Ann. Married to
Caroline Tanswell, graduate of University of Western Ontario, also teaching in
Cambridge.

Zuider, Dave Geology

At last word Dave was working for Monaco Engineering in Colorado.

Zuidgeest, Robert Group Science, 1975