

GVSC GEONEWSLETTER

Volume 2
Fall, 1976

Dear Alumni, Students, and Friends of the Department:

Continuing in the tradition established last year, the following represents a capsulated review of faculty, student, and alumni news considered to be worthy of your attention. I would like to apologize at the outset for not being able to present a comprehensive summary of events, but your attention span, my limited knowledge of what all of you are doing, and "last but not least", limited preparation and documentation space, are my excuses for brevity.

General items of major significance concerning the Department includes the current sabbatical leave which Bill Neal is thoroughly enjoying. Some details of his efforts are outlined in the Faculty/Staff section. In addition, Jack Henderson was elected Chairman of the Department last spring. His term in office began on September 1, 1976.

As I hope you will be able to discern throughout this newsletter, the Department continues to grow in size and quality at more or less its historic pace. A prime example of this growth is the recent acquisition (mainly through the efforts of Dick Lefebvre, Bill Neal, and a Title VI grant) of a color TV monitor equipped to display enlarged microscopic (petrographic) views of rock thin-sections on a 19 inch screen. Can you imagine the expressions on faces of Geology 111 (101) students as they view for the first time some of the more salient wonders of the universe? Needless to say, the monitor will be extremely useful in the Optical Mineralogy, Mineralogy, and Petrology courses at Grand Valley.

This newsletter features some "Reflections" by John Lucke. I hope you all find this article as informative as I do, especially in learning about how all of this came about.

Again, abiding by earlier formats, you are all invited and strongly urged to fill in the attached sheet with pertinent personal information to allow an even more enjoyable writing of the third volume of this newsletter. Please take special note of the First Annual Grand Valley Geology Department Reunion to be held this year (RSVP). And, most importantly, please take time to visit us whenever possible to keep lines of communication open and friendships alive.

Best regards,

Edward L. Tremba

Reflections
(received January, 1976)

I had met Jim (Dr. James H.) Zumberge at GSA meetings and exchanged notes on geomorphology with him by correspondence through the 1950's. We liked and respected each other. At the 1963 GSA meeting in New York City (when Grand Valley was only a few months old), he invited me to apply for the post of professor of geology in order to "begin to build the best small geology department in the country". I flew out for a visitation in December, meeting especially George Pötter, Art Hills, Harry Jellema and the Zumberges, both on and off campus. I recall our luncheon at Schulers in Grand Haven (when they served full course lunches, not snacks); there were over 30 inches of snow at the lake shore but only 5-6 inches at Grand Rapids. There were several other candidates considered that winter, one of which was the Pennsylvania State Geologist. I was strongly backed by John Frye and George Maxey of Urbana. On 24 April I received notification that the Board of Control had approved my appointment (\$12,000 for nine months). I was immediately asked to submit a list of bare minimal lab equipment for Geology I (Physical and Historical) so as to be "ready" next September, 1964. The "geology baby" was housed in the middle of Lake Superior Hall, as part of the Science Division, whose secretary and sparkplug was Mrs. Marie Klotz. I've never had a better one anywhere, full or part-time.

Partly to keep me "busy" and partly (so it was said) to "sell" Grand Valley to southwestern Michigan, I was asked to present a TV series as part of an established local feature - TEN O'CLOCK SCHOLAR. The logistics and moral support were supplied by Nancy (Seidman) Dempsey, then in charge of what is now called College Relations. This series ran for thirty minutes per week, for twelve weeks. I believe I got Jim Zumberge to take one, but I had all the others, including all the props. I called my series (borrowing from Cloos) - CONVERSATIONS WITH THE EARTH. I have no way of knowing how it went over, but the few personal comments I received were favorable. It was a chore, especially culling the props, maps, slides, and the specimens to be used (mostly from my own personal collections). I hope it did the College some good.

April 20, 1966 - appointed Professor of Geology with tenure.

In May of 1966, an all-college holiday was declared to dedicate the Loutit Hall of Science. I was privileged to introduce the guest speaker (fellow shipmate on the RV ATLANTIS in 1948), Dr. Frank Press, Chairman, Department of Earth and Planetary Sciences, Massachusetts Institute of Technology in the largest lecture room then available on campus, 132 Lake Huron.

September 28, 1966 - appointed Chairman of the Geology Department

In the next academic year, Grand Valley College was formally granted a club charter in the Society of the Sigma Xi, at ceremonies in the Peninsular Club. As instigator and ramrod of the application, I was elected president in the charter year of the club.

On a visit to Michigan State early in 1966, Dr. Zumberge met Norbert O'Hara, a graduate student in geophysics, who was just beginning his dissertation on the geology of the bottom of Lake Superior. He was quite impressed with O'Hara, an Air Force Reserve pilot, and hired him to go to the Antarctic to assist in one of his ongoing research projects, and thereafter, to assume duties as Instructor of Geology for the 1966-67 academic year. Norbert O'Hara was with Grand Valley only one year.

I pursued the search for a new number 2 personally at the 1966 GSA meeting in Atlantic City, as well as by mail to trusted opposite numbers. One of the latter, Dr. Arthur Howland of Northwestern University, suggested Dr. Richard Lefebvre, then Assistant Professor at the University of Georgia. He accepted the post of Assistant Professor after the usual visitation and paper work. The modern Grand Valley State College Geology Department began with his arrival in September 1967. Almost immediately we began a search for number 3, preferably a paleontologist-stratigrapher, to complete a minimum solid nucleus for a geology major.

In September of 1968 John MacTavish arrived from Case Western Reserve University as Assistant Professor, with paleontology and stratigraphy as specialties. In 1971, John moved to the then new WJC.

From 1 January to 15 June, 1969, I requested and was granted a leave-of-absence to take a South Pacific cruise on the 200th anniversary of Captain Cook's first voyage in the Pacific on the ENDEAVOUR. The college granted me \$500 carte blanche to cover the costs of collecting suites or rocks, corals, shell, etc.

John B. Lucke

Many thanks Johnny from all of us for recounting those hectic beginnings of our Department. We now have an accurate, enlightened, personal account of those early rumblings to be preserved in the departmental archives.

FACULTY/STAFF NEWS

Jack Henderson
Associate Professor
of Geology

A.B., Franklin and Marshall College (1961)
M.Sc., Northwestern University (1965)
Ph.D., McMaster University (1967)

Jack is nearing completion (Geological Survey of Canada termination date is summer 1977) of his mapping project (scale 1:50,000) covering 9000 square miles of the Melville Peninsula. The dominant geologic structure in the area is the root ("core") zone of the Foxe Fold Belt (a Middle Pre-Cambrian orogenic belt). Jack was initially selected to lead these studies in 1973 because of his excellent reputation as one of the few qualified field-oriented, high-rank metamorphic geologists in North America. He was ably assisted by John Vrona (senior) whose further studies are described in the student section of this newsletter.

Jack is planning to take a year-long sabbatical leave in 1977-78. Hopefully, he will be a Fullbright-Hayes fellow studying the Caledonian Fold Belt within the Scandinavian Shield and teaching a course or two at the University of Bergen, Bergen, Norway. All of you who have had Structural Geology at Grand Valley know what the Norwegian students will be getting.

P.S., Jack is doing a capable job as Chairman. Thanks from all of us.

Dick Lefebvre
Professor of Geology

B.S., University of Michigan (1957)
M.S., University of Kansas (1961)
Ph.D., Northwestern University (1966)

Dick has taken a more serious bend towards athletics these days. For starters, both he and Sandy have become full-fledged members of the Ramblewood Racquet Club. Furthermore, he is Chairman of the Faculty Advisory Board at GVSC.

On a more serious note, Dick's excellent work on the Craters of the Moon volcanic flows continues with renewed vigor (sponsored of late by the USGS EROS program). This past summer, he was able to find dateable paleosol samples in the Sunset Flow. Preliminary results suggest this flow is 10,000 years old. If this is confirmed, it will represent the oldest known flow in the area; the Blue Dragon Flow was dated at 2000 Y.B.P. earlier.

Dick was assisted by Larry Kultz (senior) in July and August following completion of Larry's field camp activities (see student news section). Others to join Dick ("Mr. Volcanology") included Gene Shoemaker ("Mr. Moon") and his graduate assistant who collected several hundred core samples. Towards the end of the summer, Dick traveled to the J.P.B. in Pasadena to add his field data to the existing EROS data bank stored in the VICAR computer.

Following one more summer in the field, Dick hopes to eventually incorporate his final results into a composite map (scale 1:125,000) of the Eastern Snake River Plains. We're all behind you, Dick!

Johnny Lucke
Professor Emeritus
The Anchorage E-24
15 Pleasant Street
Harwich Port, Mass.
02646

B.S., (1929), Ph.D. (1933), Princeton University

Johnny was still the ambitious geologist of old traveling to the four corners of the world this past year. One of his sojourns took him to the 1976 International Congress in Australia. We were extremely happy to see Johnny in the fall of 1975 just after

he attended the 1975 GSA National Meeting in Salt Lake City.

Johnny also entertained Patty Videtich several days last summer while Patty was adjusting to the Eastern Establishment at Brown University. Patty said she's never seen so much scrumptious sea food. Thanks for helping all of us Johnny. Special thanks for your excellent contribution to this manuscript.

Bill Neal
Associate Professor
of Geology
Duke University/
Dept. of Geology
Box 6665
College Station
Durham, No. Carolina
27708

Bill, Mary, and their three daughters are back in the deep south again. Bill is "operating" out of Duke University through May, 1977. He is actively researching North Carolinian coastal problems growing out of the interaction between man's land use and natural processes. His joint study with Orrin Pilkey is being funded in part by an N.S.F. grant.

Bill has also made good use of excellent GVSC student help in his studies. Craig Schrieber (junior) collected several dozen deep-sea sediment core samples from the Atlantic continental slope/rise last winter on an EASTWARD cruise. Jim Schulz (senior) has been vigorously preparing heavy mineral separations of these samples to study possible origins of the turbidites.

I know Bill's increased expertise will allow him to help us with some of the Lake Michigan shoreline problems in the near future. Keep the faith you-all!

Norm Ten Brink
Associate Professor
of Geology

B.S., University of Michigan (1966)
M.S., Franklin and Marshall College (1968)
Ph.D., University of Washington (1971)

Norm began this Fall Quarter with a bang or should I say twang, when he bagged his first buck with a bow and arrow. Aside from his robust out-door activities, he has found the strength and energy to participate in an E.P.A. sponsored three county (Oceana, Ottawa, and Muskegon) water quality planning study under the auspices of the West Michigan Shoreline Regional Development Commission in addition to his normal teaching duties. (How do you manage it Norm?) He has worked for the Commission one day a week for two quarters (Winter and Fall, 1976), but he has also worked two full quarters (Spring on a leave-of-absence and Summer, 1976), Lynn Bravender (grad); Paul Kampa (senior), and Craig Shoemaker (grad) all combined to give Norm helping hands. Norm says one of their goals is to predict, by means of modeling, how parameters such as land-use, ground cover, etc. should be manipulated so that this area which includes 50 drainage basins will meet Federal water quality standards in the next several years including zero pollution by 1983!

Future research plans hopefully will include working as chief glacial geologist on a study of the Dry Creek early man-site located near Mt. McKinley, Alaska. The study would commence this summer. Get your booties out again Norm.

Ed Tremba
Assistant Professor
of Geology

B.S., University of Michigan (1965)
M.S. (1967), M.S., (1973), Ohio State University

Ed began 1976 by accepting a tenurable position in the Department (its fifth to date). He wishes to thank all those members of the Department (students and faculty alike) who contributed to this effort. Speaking of efforts, he and Jane are most appreciative of the major effort put forth by a dozen students and Dick Lefebvre in helping to prepare his lot (a new house in Jenison) for grass seeding. Ed couldn't believe how many pebbles and cobbles occur in the glacial drift of West Michigan.

As usual, Ed is still wrapped-up in his follow-up research (documentation) of Eniwetok carbonate geology. This past summer during his appointment as "Geophysicist" at the Air Force Weapons Lab (AFWL) in Albuquerque, N.M., he was engaged in interpreting and documenting results of the geophysical studies (mostly on land seismic refraction) conducted on Eniwetok in 1973. During this period, Jane was a very active volunteer worker at Albuquerque's Presbyterian Hospital. Next time you see Ed, ask him about the Pecos Wilderness area.

Future plans may include either a return to summer employment with AFWL or possibly strontium isotope studies of the Michigan Basin (Upper Silurian) if a N.S.F. post-doctoral fellowship is applied for and received.

Jeff Sutherland
Honorary Professor
of Geology

A.B., Cornell University (1962)
Ph.D., Syracuse University (1968)

Jeff's first response to my query as to whether or not he has anything to contribute to this year's newsletter was "Tell them I'm still surviving". Surviving he is. Besides gaining official license as a registered engineer and being promoted to Technical Coordinator of Environmental Studies at Williams and Works, Jeff is project manager of a N.S.F. grant studying the feasibility of using Michigan wet-lands for sanitary waste water disposal. Furthermore, he is acting secretary for the Michigan Basin Geologic Society as well as being a very active proponent for the establishment of a state section of the Association of Professional Geological Scientists.

Jeff closed our conversation by saying how much he enjoyed teaching his Engineering Geohydrology course at GVSC and that he would like to have the chance to teach it again. We hope it is sooner than later.

Bette Weerstra
Secretary

Bette continues to provide the foundation from which the Department grows. The title which appears beneath her name is just that, a word. She has contributed much

more to the Department than any traditional role of secretary permits. Her countless rescues of faculty and student dilemmas ranging from typing exams one hour before exam time to administrative chores reaching the ear of the President are much appreciated by majors and faculty alike.

I'll have to stop here or else the above won't make it to print. A million thanks, Bette.

Barb Scribner
Storekeeper,
half-time

Barb has handled her dual Chemistry-Geology appointment well. Geologically, she has assumed the administration of student employee pay. This role, of course, makes her a very popular person amongst our majors, especially

on pay day.

Recently Barb has been researching the purchase of an exhaust fume hood to be added to the rock-prep section of room 120 Loutit. Her efforts in this very complicated problem (venting, size restrictions, cost, position, etc.) are greatly appreciated.

See you on pay day, Barb.

John Warren
TJC

B.S., M.S., Bowling Green State University
Ph.D., Case Western Reserve University

John returned to CAS during the Winter Quarter to teach his Paleontology course, while Ed braved the cold winds of the vast campus to teach a Regional Water Geochemistry course at TJC. In addition, this spring he led his traditional week-long field trip to Michigan's U.P. - of course, several CAS geology majors took advantage of the opportunity.

John plans to take a one-quarter sabbatical leave next quarter to revise his Ph.D. thesis for publication. He says he has to do something to get those oil men "off my back". Turns out his study of dinoflagellates (get your dictionary out) which occurred in rocks near the Jurassic/Cretaceous time boundary are very significant in understanding the stratigraphy of the sedimentary rocks beneath the Alaskan north slopes.

Tell 'em where it's at, John.

PUBLICATIONS OF GEOLOGY FACULTY 1975/76

Lefebvre, R. H.

LANDSAT (ERTS) spectral characteristics of lava flows in the Craters of the Moon area, Idaho, {abs.}: Summaries, Tenth Intl. Symp. on Remote Sensing of Environment, Univ. of Michigan, Ann Arbor, Mi., p. 138-139.

Mapping in the Craters of the Moon Volcanic Field, Idaho with LANDSAT (ERTS) imagery: Proc. Tenth Intl. Symp. on Remote Sensing of Environmental, Univ. of Mich., Ann Arbor, Mi., p. 951-963.

Henderson, J. R.

Talks and seminars related to Precambrian Rocks of the Melville Peninsula, N.W.T. were presented to:

1. Precambrian Section of the Geological Survey of Canada, Ottawa
2. Carlton University, Ottawa
3. Geoscience Forum: Yellowknife, N.W.T.
4. The Symposium on Plate Tectonics and the Hudsonian Orogeny: Ottawa
5. McMaster University, Hamilton
6. North Central Section, G.S.A., Kalamazoo

Geology of the Barrow River Map-Area, Melville Peninsula, N.W.T., Geological Survey of Canada Paper 77-1.

Neal, W. J.

Due to sabbatical leave, no information available

Ten Brink, N. W.

with 7 others, Radiocarbon Date List III, Baffin Island, N.W.T., Canada: Inst. of Arctic and Alpine Res., Univ. of Colo., Occasional Paper No. 21, 47 p.

Potentiometric Surface Maps of Muskegon, Oceana and Ottawa Counties, Mich.: West Mich. Shoreline Regional Planning Commission, Muskegon, Mich., 3 maps, 1:62,500 scale, 20 ft contour interval.

Septic Suitability Maps of the Townships in Muskegon, Oceana and Ottawa Counties, Mich.: West Michigan Regional Shoreline Planning Commission, Muskegon, Mich.: 50 maps, 1:15,840 scale.

with Henderson, J., Sartoris, D., and Waggoner, D., Surficial geology of east-central Ottawa Co., Mich. (abs.): Mich. Academy of Science, Arts and Letters Abstracts and Program, 80th Annual Mtg., p. 34.

book review, Glacial Isostasy, J. T. Andrews, ed., Benchmark Papers in Geology, v. 10, 491 p.: Earth Science Reviews

Holocene fluctuations of the Greenland Ice Sheet based on radiocarbon-dated moraines in central-west Greenland: Grønlands Geologiske Undersøgelse Bull. no. 113, 44 p.

Tremba, E. L.

(abstract) Isotopic composition of strontium in evaporites from the Ochoan Series of New Mexico and the Cayugan Series of Ohio: Annual Meeting, Eastern Section, Am. Assoc. Pet. Geol.

Strontium isotope composition in the Tethys Sea, Euboea, Greece: Chem. Geol., 16, p. 109-120.

Drilling operations on Eniwetok Atoll during Project EXPOE, Air Force Tech. Report-216-75, 270 p.

STUDENT NEWS

The Geology Department begins the 1976-77 school year with just over 50 declared majors, overwhelmingly in geology. This represents about a 20 percent increase over last year's numbers at this time in the academic year. As far as our minors are concerned, we are proud to announce that Mr. Ric Aguilar has had his American Geological Institute's Minority Scholarship renewed.

The trend noted last year in increased summer employment in geology is continuing based on results of our survey of returning students (and recent graduates) as can be noted in the attached list. It is expected that this trend will accelerate in future years because of: (1) greater overall demands by industrial and governmental employers, and (2) a greater network of employers familiar with the quality of GVSC geology students. The same trend also seems to be present in the hiring of GVSC geology grads into permanent positions (at all degree levels) as evidenced in our listing of recent graduate placement and the Alumni News section. We hope to gain continued and increased support in these endeavors from our alumni and friends as they rise to positions of greater authority.

We are most pleased to report that our students seemed to have performed well in their respective field camps last summer. A good example of the general quality of their work comes from Dr. Dave Weide, director of the University of Nevada field camp which was attended by five GVSC geology majors last summer. In response to a question posed by Norm Ten Brink, Dave said that all of the GVSC students were very highly regarded, and that Doug Hull (senior) is being nominated (one out of a camp of 30 students) for traineeship hiring by the U.S.G.S. because of his outstanding performance. Good work gang, "we're proud of you".

Those graduates who opted for further education also fared well (attached list). Most noteworthy among this excellent crew are the two full fellowship recipients, Patty Videtich (Brown University) and Guy Waggoner (Columbia University). Each of these students seems to be happy with their respective choices of graduate schools, and we wish them well.

It is appropriate to relate to you, the alumni, that our current "batch" of majors all seem to have the same fervor and desire to learn geology that you have established. The faculty recognize this strength and are proud of it. For one example, a recently aroused Geology Club will sponsor a car smash-a-thon at the GVSC-Northern Michigan football game on November 6. Proceeds from that affair will go to the Club's checking account.

Finally, the faculty wish to thank our majors for their excellent assistance in keeping this ship afloat. The quality of our labs and the general physical plant would be at least halved without your assistance.

Part-time Student Jobs: Summer, 1976

Field Camp Assistants:

Chris Byle (senior): Indiana University (Montana)
Loyal Suntken (senior): University of Nevada (Nevada)

Geology Field Assistants:

Wendy Bierlein (senior): Aerojet Nuclear (Idaho)
Fran Sims (senior): Intermountain Exploration Company (Nevada)
John Vrona (senior): Jack Henderson, Geological Survey of Canada (N.W.T.)
Guy Waggoner (grad.): U.S.G.S. (Montana)

Park Assistants:

Paul Kampa (senior): Michigan D.N.R.

Research Assistants:

Employed by Norm Ten Brink and the West Michigan Regional Shoreline Planning Commission:

Lynn Bravender (grad.)
Paul Kampa (senior)
Craig Shoemaker (grad.)

Employed by Bill Neal and an N.S.F. grant.
Jim Schulz (senior)

Research Fellows:

Patty Videtich (grad.): Brown University

Placement: 1975-76 Graduating Seniors

		<u>Employed</u>	<u>Grad School</u>
Bravender, Lynn	Spring 76	Walt Meinert (Hydrologist)	
Dornbcs, Delwin	Spring 76	Calgary Alberta Christian Schools	
Sartoris, Doug	Winter 76	Johns Manville Corp., Billings Mont.	
Shoemaker, Craig	Spring 76		Michigan State Univ.
Smith, Greg	Summer 76	Unknown	
Suntken, Loyal	Summer 76		University of Missouri?
Videtich, Patty	Spring 76		Brown University
Waggoner, Guy	Spring 76		Columbia University

ALUMNI NEWS

The following alphabetical listing of alumni news, based on first initial of last names, was compiled from responses to last year's newsletter (10), recent graduates (8), and other alumni who have written personally to faculty or have visited the Department during 1975/76. Please respond this time with at least a card indicating you still exist. This will help to update our current mailing list.

Anderson, Boyd - Group Science, Geology Emphasis (1975)
Are you teaching at Maplewood Public (Holland) Boyd?

Antonides, Roger - Geology (1972)
The word is Roger has been appointed Ottawa County Drain Commissioner. Would like to hear some details on this, especially since some of our course offerings lean towards an hydrologic bend.

Arnold, Mark - Geology (1975) Rumor has it that Mark is working for a consulting engineering firm somewhere in Georgia. Need more on this one for the folks back home.

Atwell, Bill - Geology (1974)

Austin, Larry - Geology (1974) Larry has worked his way into a full-time position at Williams and Works Engineering, Grand Rapids. He says a Master's degree may be looming in his future. Thanks for keeping in touch, Larry.

Bee, Tom - Geology (1974) Congrats are in order for Mr. Bee in that he won the GVSC 1975/76 ping-pong championship. Practice makes perfect. Tom's future plans are not crystallized yet but he might decide on beginning his own rock and mineral dealership. I know of fewer more qualified.

Bishop, Mark - Earth Science (1974)

Booker, William - Geology (1970)

Bowden, Doug - Geology (1974) Noranda Exploration, P.O. Box 7, Rhinelander, Wisconsin 54501
Doug writes that his thesis title is "Petrochemistry of Silicate Host Rocks of a Massive Sulfide Deposit, Rhinelander, Wisconsin". His thesis work resulted from earlier studies in the area while he worked for Noranda Exploration (summer 1975). Only problem Doug has is that the "key" to understanding the geochemistry of massive sulfide deposits in the area is contained in his thesis. Guess who won't let him write (publish) his thesis?

Bowles, Bud - Earth Science (1972)

Bravender, Lynn - Geology Ex-Officio (1976) Lynn is still another of our graduates who managed to gain employment locally as an hydrologist. He is presently employed by Walter Meinert, a Grand Rapids consulting hydrologist. Lynn says "watch out"!

Broughton, Jill - Geology (1975) It was good to visit with Jill as she prepared to transfer her Bechtel efforts from Frisco to Ann Arbor. Are you still in Ann Arbor, Jill?

Brown, Leo - Geology (1972)

Christrup, Eric - Earth Science (1974) It was good to see Eric at the annual Departmental spring picnic. He is still enjoying his work in the Coopersville school system.

Corbett, Larry - Earth Science (1973) Latest word is Larry is still teaching at Kentwood. What's new Larry?

Curtis, Lt. Tom - Geology (1969)

Dombrowski, John - Geology 1973) Texaco, Inc.,

John is now a permanent employee with Texaco. He says they'll never let him go. I'll bet they won't. He finished his Master's in 1976 at Washington State Univ. His Master's work concentrated on grain-size distributions on two Washington beaches. Glad you like Southern California that much John.

Dornbos, Del - Earth Science (1976) Last we knew Del was off to teach in the Calgary (Alberta) Christian School system.

Fegel, Larry - Earth Science/Minor Biology (1973) Larry is now teaching at City High in Grand Rapids. It apparently is a city-wide high school designed to teach gifted students. Do you have any graduates to send our way Larry?

Feyen, Al - Earth Science (1972) Rumor has it that Al is considering a career in electronics. Can you clarify?

Fink, Ray - Group Science (1971)

Gebben, Dennis - Geology (1969) Denny wrote to clarify a mistake in our last newsletter. He will hopefully receive his M.S. from W.M.U. this year (1976). I hope you have it by now Denny. Meanwhile, keep up the good work at Williams and Works Engineering of Grand Rapids.

Grodecki, Steve - Geology (1975) Steve has moved from W.M.U to Williams and Works to Petroleum Well Loggers. Know you're doing a great job wherever you are Steve. Let us know where.

Harshfield, James - Geology (1972)

Haskins, Roger - Geology (1973) Good to see Roger on his recent visit to the Grand Rapids area. While working for the Manitoba Department of Mines and Resources, Roger hopes to find a large open pit mine to acquire a grub stake so that he can move to a warmer climate. I guess you won't be returning to Michigan Roger.

Hunt, Herb - Geology (1969)

Huyser, David - Group Science (1968?)

Johnson, Dave - Geology (1974) see Kaminski below.

Kaminski, Mike - Geology (1974) Soils Engineering, Alaskan Resource Sciences Corp.,

As far as we know, Dave and Mike are still braving the Alaskan frontier.

Korving, Geri - Earth Science (1973) Geri may be teaching in the Grand Haven Public School system. Can you verify?

Lach, Pat - Group Science/Geology Emphasis (1969)

Losey, Tim (1968)

Lugthart, Doug - Geology/Anthropology (1969)

Markley, Sally - Group Science/Geology Emphasis (1973)

- Marcus (Haskins), Sue - TJC (1973) Sue is still doing her thing with the Manitoba Department of Mines, Resources and Environmental Management.
- Martin, Jeff - Geology (1975) Jeff continues to work on his Master's at W.M.U. with the support of a teaching assistantship. Good to see you on your visit to the Department and thanks for your suggestions.
- Matthews, Mike - Geology (1970) Mike writes that he completed his M.S. in Environmental Engineering at the University of Tennessee in 1975. His wife, Susie, is near finishing her M.S. in Wildlife Management. Last heard, Mike was working for the Tennessee Valley Authority as an environmental engineer. Keep in touch Mike.
- Morris, Mike - Geology (1970) After alerting Steve Grodecki to a position Mike was creating by leaving Petroleum Well Loggers, he transferred to a job with another firm. Can you clear this up Mike?
- Olsen, Ken - Earth Science (1973) Thanks for returning our newsletter form and attending our spring picnic Ken. I'll bet those trips to Colorado proved worthwhile. Dick says you still play "a mean game of tennis".
- Page, Dick - Geology (1971) Dick has passed his qualifying exams at McMaster and is closing in on his Ph.D. How close are you Dick?
- Reck, Don - Geology (1974) Dick reports Don has been considering attending graduate school in remote sensing but he's not sure how close Don is to a commitment. Don?
- Rogers, Dave - Geology/Math (1968) Dave writes the Department of Defense is supporting his Master's Degree program in Computer Science/Electrical Engineering at Washington University of St. Louis. You've got the right idea Dave. Thanks for your reply.
- Satterfield, Gloria - Group Science (1971)
- Schulz, Bob - Geology (1975) Congrats to Bob on his recent promotion to well-site geologist with Monaco Engineering. We hear several companies want your services. Many thanks to Bob for setting-up an open-hiring policy between Monaco and our Department. Ed also enjoyed your brief visit in Albuquerque this summer. Keep it up Bob.
- Sartoris, Doug - Geology (1976) Doug has secured a salaried position with Johns Manville Corporation in Billings, Montana. We earlier heard he was on his way to Africa. Anyway, we hope Johns Manville will have room for one or two more GVSC persons in the near future. Wax those skis Doug.
- Shoemaker, Craig - Geology (1976) Craig is currently working on his Master's at Michigan State.
- Sinke, Bob - Earth Science (1973)
- Smith, Greg - Earth Science (1976) Where are you Greg?
- Spruit, Jeff - Geology (1975) Jeff is working on his Master's at W.M.U. with a full teaching assistantship for support.
- Suntken, Loyal - Geology (1976) Loyal was discussing the merits of attending the University of Missouri or working for Monaco Engineering. Let us know Loyal.
- Thorpe, Doug - Geology (1974) We think Doug is just a field season away from completing his Master's at Arizona State.

Tondu, Joe - Geology (1973)

Vanderlaan, Steve - Group Science (1974)

VerWoert, Dan - Geology (1970) Dan writes that in addition to his full-time job at Williams and Works Engineering, he and his family are grossly involved in self-sufficiency farming in Lamont. No need to worry about a food crunch.

Videtich, Patty - Geology (1976, Department of Geological Sciences, Brown University Providence, Rhode Island 02912

After receiving a share of the Senior Award in Geology last spring, Patty headed for Rhode Island to begin working on her summer fellowship. She now writes of certain irregularities concerning the operation of mass spectrometers. Hmm? Congrats on your full-time fellowship at Brown Patty.

Walters, Dr. Jim - Geology (1970)

Waggoner, Guy - Geology (1976),

After receiving his share of the Senior Award in Geology last spring, and completing his field work with the U.S.G.S. in Montana, Guy began his graduate work at Columbia on a full fellowship. It took about 15 minutes to read through a description of Guy's listing of first quarter courses he is taking. Talk about a thirst for knowledge. Keep drinking Guy.

Ward, Joann - Geology (1975) Last heard Joann was diligently working towards her M.S. at Southern Illinois on a teaching assistantship. Hope to see you soon Joann.

White, Frank - Geology (1970)

Williams, Dick - Earth Science (1973) Dick writes that he is able to make the mortgage payments on his beautiful house using some of his salary earned as a result of his Lab. Tech. job with Chemetron. He was also careful to note that his house is not on Lake Michigan, but is presently a comfortable mile from the lake amidst 10 wooded acres.

Woerns, Rolf - Geology (1970)

Zuidgeest, Bob - Group Science (1975)

ADDENDUM

Brintnall, Art - Geology (1970) Last heard Art is still working for Prein and Newhof Engineering in Grand Rapids. What's happening out there?

Kolenbrander, Larry

Larry completed his M.S. degree at Colorado State University and is presently working on his Ph.D. in land-use planning within the Agronomy Department at Colorado State.