Time Of Transition

Do you ever wonder what it was like living in the Permian? You wake up one morning and it's the Triassic; things look different, your surroundings have changed! You face a new world with excitement, but also some sadness. The Geology Department is seeing the end of its 'Paleozoic' and evolving into its next era. This time of transition is marked by our settling into the Padnos Hall of Science, a systematic overturn of faculty, shifts in our technotools, and our joining the national trend of re-examining earth science education. The creatures (apologies to the students, but you have to go with the analogy) that roam our halls still have the same goals as those of the past: survival and the skills to compete. Most of them don't realize that today's environment is an evolutionary product of all the 'critters' (viewed by a few as 'fossils') that came before. And some of the best are now gone, which is part of transition. A highlight of this report is the fine record that our current community of students is generating; working toward a goal articulated early in the Department's history by Jack Henderson: to be the best undergraduate geology department in the state, if not the midwest.

Padnos Hall

The most apparent change when you visit campus is the disappearance of old Loutit Hall. Loutit's rusty-patina structure, described by Johnny Lucke (GVSU's first Geology Professor) as looking "like the bridge of a sunken battleship," is replaced by the red-brick complex of Padnos Hall, described by **Buck Sharpton** (when receiving the distinguished alumnus award) as resembling a 19th Century factory. For those of us from the Ordovician and Silurian, who began anticipating the new age 25 years ago, the Triassic isn't what we thought it would be, but we're happy the time arrived. The birthing process was difficult and, like the buried stratigraphic record, Loutit Hall still lies within the framework of the new building. When alums from earlier times visit, we play the game -- find old Loutit's outline! The principle that "the effects of building use are cumulative through time" is illustrated.

Thanks to Seymour and Esther Padnos, the new hall named in their honor is providing our students with an improved work environment, and gave the department a little relief in the space crunch. But GVSU's rapid growth has already offset some of the gains, so we must be thinking about the next evolutionary jump. Science never sleeps. The major improvements for the department include:

Labs and Offices: The two original labs were remodeled a bit, and the inner storage rooms completely remodeled to provide a service area for each of the old teaching labs. Two new labs were added, including a "dirty" sediments lab with an attached rock prep room, and a "clean" cartography lab to support upper-level, map-based courses. The former student research-room function of the old petrology lab is replaced in part by a newly designated student research lab. This new facility is already crowded, but some excellent student research has resulted from the GIS support system housed there. The old Loutit hallways are now limited-access inner halls that double as service/storage areas, and the department has a new storage area in the basement, allowing consolidation of the collections formerly stored in the dome. Former faculty offices on the now inner hallway are assigned faculty research areas (5 of the 6 regular geology faculty have research space), offsetting in part the loss of space when we moved into much smaller offices that ring

the new outer hallway. The department office is shared with physics, but it's on the same floor as the departments it serves with the Chair's office attached, a great labor-saving design. Look for Room 125 when you visit the department.

New Equipment: As part of the new building and remodeling, units were given a one-time budget to upgrade and improve equipment inventories. When combined with Pat Videtich's two successful NSF-ILI equipment grants, the department moved forward in both computers and general technotools for improved instruction. We've added GIS capabilities, GPS, a seismic unit, cathodoluminescence, a small field drilling unit, and a surveying station. At the same time we added some top-of-the-line petrographic microscopes, binocular microscopes, and replaced aging bruntons, tapes, etc. But our needs are still great, so if you win the lottery, don't forget us!

Displays and Display Cases: New hallway wall space provides new opportunities to expand our displays, coincident with our return to increasing student research. The most striking improvement is the addition of two large, built-in display cases which compliment the Miller cases, and there's room to add another two to four cases if funded.

Permanent photo-poster panoramas on the Powers of Ten and the History of the Earth are located on the second and third floors. Hanging poster boards and glass cases allow us to publicly display the research of students and faculty.

Alumni Map: Pat Videtich recently generated a map display of the geographic dispersion of the department's alumni, and a listing of the diversity of occupations represented. We hope you will return the enclosed information sheet to update our records. Pat used the 1995 GVSU Alumni Directory as her source, so if that information has changed or was incorrect we especially need an update. Often we lose touch with recent graduates the quickest, so new alums as well as "old" should respond. If you stop by the department and can't find your spot on the map, let us know and we'll make it your red letter day! And when you visit campus, stroll the landscaped grounds. We hope to be a part of that scenery with the addition of a rock garden.

Faculty, Former Faculty, and Staff News

Jack Henderson: Jack's name is at the head of the list, not because our sad task is to report his death July 22, 1997, but because he was one of those founding fathers of this department who set the tenor of quality. Jack was as distinguished in his fight against cancer as he was in his profession of geology. He educated himself as to the nature of the disease and the best known ways to treat it in the hope of buying as much time as possible, and he utilized that time in the best ways he knew. He never abandoned his profession, and in fact made the effort to conclude some of his studies, including presenting a paper at last year's GSA meeting and publishing a paper on his fieldwork on structures in the Northwest Territories in the Journal of Structural Geology (May, 1997, issue). Even near the end he held onto plans to carry on geological mapping and exploration in South America. Jack was a model in life as he was in teaching and as a professional. He visited the department last fall and was able to see the new facilities that were as much a part of his dream as it was of those of us who are still here. In his conversations during that visit he referred to this department as "our" department, and he clearly was still "our" colleague, teacher, and friend. Thanks to those of you who made a point to visit or communicate with

Jack in his time of trial. And to all of Jack's family, we extend our condolences and sympathy.

Tom Bee: Our former department curator has also suffered a loss in the death of his father. Our condolences to Tom and family. And thanks for continuing to be part of the department's annual mineralogy trip.

Mary Ann Bramer: When Bette retired there was great concern that the department might implode on itself, but Mary Ann has stepped in and quickly adapted to our motley crew of faculty and students. She comes with six years of experience at GVSU, and is learning geology quickly.

Kevin Cole: When your computer doesn't function, or you've got a hole to drill, go coring in the jungle, or run students up a hill, call Kevin to the rescue. He'll help - he will! Kevin covers a lot of territory including mineralogy, geohydrology, geophysics, GIS and beginning courses, and is very active in supervising student research. This summer he was in the fjords of British Columbia looking at slopes, soils and mass wasting.

Tom Hendrix: Tom retired two years ago after a distinguished career, particularly in being recognized as a master teacher. He brought great honor on this department in receiving his due recognition in the form of the National Association of Geoscience Teacher's Neil Miner Award a national award that annually recognizes a professor for excellence in geoscience teaching. Tom and Nina spent the summer pursuing every baseball fan's fantasy: to attend a game in every major league park in a single season! Even if they don't get free world series tickets for such an achievement, they're in a league of their own in our book!

Steve Kenaga: Steve continues to pinch-hit as an adjunct in teaching environmental geology, and acting as in-house vertebrate paleo expert. He made it out to Mt. St. Helen's this summer for a backpack trip around the still-smoking volcano.

Dick Lefebvre: Even when the Paleozoic ended, there were still Precambrian outcrops, important to the framework of what was to come. Dick is still the georoot of the department, but marking the great transition. He's announced his plan to retire in a year, and we are beginning the search for someone(s) to cover all of Dick's expertise and responsibilities, particularly petrology and earth science education. Dick visited China this summer as science expert with an organized tour, and returned to run a summer course in rocks and minerals. He also continues his K-12 liaison work.

Bill Neal: A few Paleozoic forms made it into the Triassic, and Bill's trying to adapt. This year is "the last sabbatical", which also may be the title of his next book, but the return to Duke University puts him on familiar ground; still working on the "Living with the Shore" books. The only difference between the Holocene transgression and that of the Ordovician are the buildings that get in the way!

Bill Smith: Bill is with us for two years as a visiting professor, teaching beginning courses. Formerly at WMU, his field is geophysics, and as a University of South Carolina grad may have influenced **Colin Plank's** choice of graduate programs. Bill is a boy scout enthusiast and spent the summer as boy scout camp director.

Norm TenBrink: Norm spent a year getting GVSU's new Faculty Teaching and Learning Center from the concept stage to up-and-running before returning to geology full-time. He's now back in the developmental stage for his next round of glacial geology. Norm and Shirley's summer included organizing and hosting, son Andy's wedding. Andy and Robin will both complete an M.S. in geology next spring - three geologists in one family!

Ed Tremba: See the scholarship report that follows. Ed and Rose were supposed to have moved back to New Mexico. Let us know where you are Ed.
Pat Videtich: Taking over the Chair in January has shifted Pat's attention from research projects to the endless demands on one's time in paperwork, but she's retained her sanity with a series of world travels including Antarctica, China, and Turkey. Pat's very active in supervising student research, particularly the geochemistry of dolomites and gypsum.
John Weber: Two years ago we gave John a simple assignment -- just take Tom's place; no mention of the size of the shoes to be filled! And John is already demonstrating the same commitment to providing students with opportunities for field experiences, research project participation, and contacts for graduate schools. His professional excellence shine through in his research in Trinidad, and now Venezuela, and participation in a GPS New Madrid project that will also involve some of our students. John was a Penrose Conferee this past year in the Greek islands, and is invited to another Penrose Conference this fall!
Bette Weerstra: We miss Bette, but Bette doesn't miss us. She and Jack winter in Florida, and summer in Michigan. Apparently it's difficult to play golf and write post cards at the same time.
Greg Wilson: If you read all of the job descriptions for the faculty and staff listed above, and then listed all of the departmental jobs/work not accounted for --- that's what Greg does. He's our laboratory coordinator, student employee supervisor, collections expert, displays liaison, lab instructor/lecturer, AV guy, and ask Greg to do it. When the last mineral, rock, fossil, map, section, photo, book, slide, thin section, equipment item is in place, the department will be ready for the millennia.
Jeff Woollett: One of the giant leaps forward with the new building is having a genuine loading dock for the first time, as well as new fabrication shops, and these are Jeff's milieu. He continues to be the difference for our equipment survival, from identifying a defective circuit board in a new "black box" machine to keeping those old Zebulin Pike model microscopes operational.

Tremba Scholarship

In the middle Paleozoic the geology faculty took the department's first step toward fund raising in establishing an endowed scholarship. That action was initiated by Ed Tremba, our first geochemist. Ed contributed both the idea and to the initial funding along with other faculty at the time. When Ed left Grand Valley, we named the scholarship after him because of his contribution and legacy to this department. The Tremba family supported the continued growth of the fund, as did faculty and the generosity of many alumni. Today we continue to encourage you to support the growth of this scholarship fund, and take pride in looking back over the list of students supported. Since 1982, 38 Tremba Scholarships were awarded for a total of nearly $19,000. Currently the fund has approximately $35,879 which generates income from which the faculty awards two to four scholarships per year for variable dollar amounts.

The 1997 Tremba Scholarship Awardees are:

Kris Nolan
Rick Peters
Colin Plank
Sarah Tourre

The 1982 through 1996 Tremba Scholarship Awardees were:

1982	Craig Swanson
1983	Greg Wilson
1984	Bruce Jones
	John Tweddale
1985	Ken Bevis
	Judy Campbell
	Molly Holden
1986	Bob Brown
	Lori Vanderkam
1987	Bill Verduin
	Dan Bradley
1988	Audrey Cavanaugh
1989	Ann Marie MacKinnon
	Kurt Thompson
1990	Gary Mast
	Cynthia Skinner
1991	Bill Kool
	Amy Wolfe
1992	Chris Hackbart
	Pat Wieske
	Adam Wygant
1993	Brani Jurista
	Jon Mull
	Angela Strong
1994	Cathy Baisden
	Chris Bolhuis
	John Davis
1995	Tim Feuerstein
	Tom Long
	Steve Sellepack
1996	Bob Bodziak
	Tony Lupo
	Norm Mannikko
	Stephanie Tassier

The Tremba Scholarship recognizes professional promise, and the above representatives are living up to that promise shown as undergraduate students. Our records are incomplete, however, 19 of the above went on to graduate school and, to date, have produced one Ph.D. and approximately 13 Masters Degrees. Six individuals went directly into the field of environmental geology, and at least 15 of the total number have worked in the environmental business sector. At least two individuals returned to earn certification in Earth Science with the goal of teaching. Several past recipients are still in graduate school or have only recently entered the job market, but we anticipate that they will live up to their potential for professional lives whether in the earth sciences or other fields.

The Tremba Scholarship is not the reason for success, but is there to help ease some of the educational financial burden, and provide encouragement to students. Thanks to Ed and all who have contributed in the past to make the above record possible. Thanks to all of you who will build on this tradition, and help us to keep apace with supporting future students. The donors of the last three to four years are listed below in public acknowledgment and thanks for recent support:

Rhoda Banta	Virgil Sharpton
Steve Benton	Gregg Swayze
Lynn Bravender	Norm TenBrink
Janice Graham	Ed Tremba
Ron Green	Bruce Tweddale
Tom Hendrix	Greg Wilson
Nancy Mackiewicz	Allen Wygant
Bill Neal	Janice Zilko
Virginia Peterson	

The Jon Hofstra Memorial Scholarship

Most of us are attracted to geology because it is a field science. We find great beauty in nature and challenges in the rocks and landforms. In working road cuts, quarries, mountains and mines, we play down the hazardous side of our science, but every year we lose peers to accident. In 1992 Jon Hofstra, a promising geology

major and essential part of our small community, lost his life in a fall in the mountains of Colorado. A memorial fund received donations in Jon's memory, and it was decided to award a one-time scholarship with these monies. In the Spring of 1993, **Greg Davis** was awarded the Jon Hofstra Memorial Scholarship. Appropriately the support helped Greg attend geology summer field camp. The loss of a colleague leaves a permanent void, and those faculty who knew Jon, and certainly his classmates, will carry the memory of this good friend.

Tulip City Gem And Mineral Club Scholarship

The members of the Tulip City Club continue their generosity to the department in the annual award to students selected by the geology faculty. A tradition of awarding the scholarship to students headed for geology summer field camp is well established, and the awardees and faculty representative enjoy the added bonus of attending the Club's Spring Banquet. The 1997 awardees are Chuck Bunker and Nicole Heller.

Awardees over the last few years include:

1993	Peter Barten
1994	Molly Helbing-Sherwood
1995	Dean South
	Laura "Laz" Stanton
1996	Zach Dahl
	Matt Guliemi

The Geology Development Endowment Fund

The human species is said to be unique in the capability of an individual to take an action for which they know that they will not see the ultimate outcome, e.g., planting trees. The establishment of the geology endowment fund was akin to planting a tree that takes decades to mature. Some of us are pleased with the steady growth, and some of us thought it would grow faster, but we all agree that the significance of the fund's future impact on the department is just around the corner. To continue the lumber analogy, we need to continue to nurture the tree because we will soon need to visit the wood pile.

The endowment fund currently has a balance of $54,078. We are reaching a point where some of our special needs can be addressed using interest from the endowment. This coming Fall the faculty will assess future extraordinary needs of the department (i.e., needs not met under current budgets underwritten by tuition) and decide how to best use these funds. The donors of the last three to four years are listed below in expression of thanks for continued support.

Lorraine Alcott Manchip
Larry & Mary Austin

Tom Baldwin	Rhoda Banta
Steve Benton	Mark Bishop
Art Brintnall	Eric Buzzell

Ann Bykerk-Kauffman
Judy Campbell Strunk

Kevin Cole	Sally Covyeau
Ron Crislip	John Dombrowski
Shirley Francis	Greg Frick
Janice Graham	Tom Hendrix

Molly Holden Stuart
Indian Mounds Rock and Mineral Club

Dick Lefebvre	Marlene Leistico

Karen Yoshida Like

Nancy Mackiewicz	Sue Marcus
Dale Mason	Bill Neal
Kathleen Senita	Virgil Sharpton
Jeff Spruit	William Stewart
Gregg Swayze	Jaqueline Vansen

Rene Varin Potratz

Pat Videtich	Ingrid Verhagen
John Vrona	Jim Walters

Tom Witherspoon
Allen Wygant Lori VanderKam

Faculty, alumni, parents and friends continue to support and build this fund with an eye to the future. We hope that when you consider appeals for support from GVSU, the Geology Development Endowment Fund and the Tremba Scholarship Fund will be first in mind.

Other Contributions to the Department

Occasionally the Department receives other gifts in the form of specimens, equipment, journals, books, or even data sets. We thank all of the people who have made such contributions. Donors in the past few years include:

Bob Brown Jim Dexter
Larry Dry Marcus Mierle
Adna Underhill
Mr. & Mrs. Witherspoon

1996 Geological Society of America Meeting, Denver, CO.

The 1996 meeting was well attended by Grand Valley alumni. An informal reunion over lunch on Wednesday, October 30, was attended by most of the alums at the meeting and Jack Henderson.

Papers presented by GVSU geoalums, faculty and former faculty included:
Bykerk-Kauffman, Ann, Kerlinger, Jane, and Johnson, Bonnie J.: The Effectiveness of Constructivist Hands-On Instruction in a College Earth Science Course for Prospective School Teachers. Stensrud, Howard L., **Bykerk-Kauffman, Ann,** Fisher, Victor F., Flory, Richard A., and Kato, Terence T.: A Modular Alternative to the Traditional Summer Field Course..
Peterson, V. L., and Zaleski, E.: Structural Relations Across the Wawa-Quetico Subprovince Boundary of the Superior Province Near Manitouwadge, Northwestern Ontario. Schuraytz, Benjamin C., Lindstrom, David J., Morriso, Donald A., and **Sharpton, Virgil L.**: Iridium Metal, Calcium-Aluminum-Rich Inclusions in Chicxulub Impact Melt: Relicts of a Carbonaceous Chondrite K-T Boundary Impactor.
(**Buck Sharpton** also spoke at the debate: Chicxulub: How did it do it? --- The K-T Boundary, Mass Extinction, and the Post-Chicxulub Era.)
Sheets, R. W., Nesbitt, B., and Muehlenbachs, K.: Comparative Geochemistry of Porphyritic Intrusions of the Babine Lake Area, West-Central B.C.: Implications for Porphyry Cu Exploration.
Swayze, Gregg A., Clark, Roger N., Livo, K. Eric, and Pearson, Ronald M.: Mapping Acid-Generating Minerals at the California Gulch Superfund Site in Leadville, Colorado using Imaging Spectroscopy.
Waythomas, Christopher F.: Volcanigenic Tsunamis from Augustine Volcano, Alaska: Fact or Fiction?
Videtich, Patricia E., and Cole, Kevin C.: Using a Campus Golf Course for Class and Student Research Projects.
Henderson, J. R.: Chevron Cleavage and Biotite Rotation in Graded Beds.
Sessions co-chaired by alums:
Ann Bykerk-Kauffman: Session No. 158, Geology Education II
Chris Waythomas: Session No. 157, Environmental Geology

1997 Geological Society of America Meeting, Salt Lake City, UT

Dick Lefebvre; Bill Neal, and Pat Videtich will attend the GSA meeting in Salt Lake City, October 19-23. They will spend much of their time recruiting for the new positions (igneous petrologist or volcanologist; geoscience educator); however, undoubtedly they will fit in time for a reunion with alumni. So those attending the meeting should plan on a GVSU geology get-together and check the message center for a plan-of-action. Plus, if anyone knows someone looking for a position who would fit in well at GVSU, please ask them to check out our ad in the September issues of "Geotimes" or "GSA Today", or ask them to look for our flier at GSA and contact us there.

Geology Field Camp Attendance

The Summer Field Camp experience remains as an important culmination to the geology major. Majors continue to select from a diversity of field camp programs, both in size of camp, geologic location, and traveling vs. permanent camp sites. This year's group of applicants is especially noteworthy because two students attended an international camp in Ireland, and three GVSU students received National Association of Geology Teachers field-camp scholarships. Congratulations to **Kris Nolan, Colin Plank**, and **Sarah Tourre** for their success and thanks for representing GVSU in this national program.

1997 Summer Geology Field Camps

Chuck Bunker
Boston University:Ireland
Michael Cox Idaho State University
Nicole Heller University of Missouri
Tony Lupo
Southern Illinois University
Kris Nolan
Boston University:Ireland
Rick Peters
Southern Utah State University
Colin Plank University of Missouri
Sarah Tourre University of Missouri
Brian Workman
Southern Utah State University

1996 Summer Geology Field Camps:

Jim Beke Albion College
Bob Bodziak
Southern Utah State University
Zack Dahl " " " "
Matt Gulielmi " " " "
John Johnson Lehigh University
Norm Mannikko Utah State
Vince Perroud
Southern Utah State University
Brian Richardson
Idaho State University
Stacy Silcox Boston University
Stephanie Tassier Boston University

1995-1996 U.S.G.S. Summer Internship Program:

As a result of their outstanding field camp performance at Southern Utah State University in 1995, **Tom Long** and **Dean South** were nominated for the national USGS Summer Internship Program. Both were accepted and the summer of 1996 Tom worked on several projects throughout the west and great plains region. Dean worked out of Colorado Springs. Congratulations to these two alums for carrying on the tradition by representing Grand Valley students in the USGS program.

Students Win National and State Recognition:

In addition to the awards noted above, **Sarah Tourre** received the prestigious, national Goldwater Scholarship, and was invited to be one of 47 student research exhibitors at the national Council on Undergraduate Research's Capitol Hill Poster Session in Washington, D.C., where she was signator to "An Investment in Tomorrow", a call to Congress to support undergraduate research. Sarah went on to win one of the eight best student paper awards for her presentation "Sulfur-Isotope Geochemistry of Gypsum in the Mississippian Formation, Kent and Iosco Counties, Michigan" at the 1997 Geological Society of America, North-Central Section Meeting in Madison, WI. **Colin Plank** received recognition for the best student paper in the geosciences section of the 1997 Michigan Academy of Science, Arts and Letters Meeting at Calvin College in Grand Rapids.

Students Involved in Research and Presentations

Over the past two years numerous students have been involved in research projects with faculty, and most of the students received salaries of at least $2,500 to do their research. Funds were obtained from university, state, and national sources (GVSU Science and Mathematics Division Summer Undergraduate Research Program, NASA's Michigan Space Grant Consortion Fellowship, the National Science Foundation's McNair Fellowship, the Council on Undergraduate Research Summer Undergraduate Research Experience Fellowship, and the Federal Emergency Management Agency). Students funded the past two summers included Stephanie Tassier, Sarah Tourre, Chuck Bunker, Cathy Baisden, Curran Kemp, Tony Lupo, Kris Nolan, Nicole Heller, Jason Sweezer, Colin Plank, and Jill Ralston.

In addition, in 1996 Tony Lupo successfully competed for a summer intern spot (one of 13 positions out of >120 applicants) at Lamont-Doherty Earth Observatory in New York. There he worked on geophysics projects under the direction of Dr. David Goldberg.

Almost all of the students above and many others gave presentations on the results of their research. In the past two years 33 geology students have given presentations at the GVSU Science and Mathematics Student Research Day. Students also have presented numerous posters and talks off campus at meetings of the Michigan Academy of Science, Arts and Letters; the Geological Society of America, North-Central Section; the National Conference on Undergraduate Research; the Michigan Space Grant Consortium Conference; and the McNair Conference.

Recent Alum Activities

A number of students in the past two years have gone directly into teaching or industry positions. Others have continued on to graduate school. Graduates from the past two years are attending:

Idaho State University
(Brian Richardson)
University of Massachusetts
(Stephanie Tassier)
Memphis State University
(Zack Dahl, Norm Man)
New Mexico Institute of Mining and Technology
(Tony Lupo)
University of South Carolina
(Colin Plank)

University of Southern Illinois
(Bob Bodziak)
Western Washington University
(Laura Stanton)

HAZWOPER Course Offered

At the urging of **Larry Austin,** HAZWOPER, a safety course required by OSHA for those working at toxic sites, was offered at GVSU the first time in May, 1997. The lead instructor was Bert Webb, the Safety Director at BLDI, a local environmental firm. One of the co-instructors was **Molly Helbing-Sherwood,** a geologist at BLDI.

The course filled rapidly and had a waiting list of up to four students. In the end, 22 students took the course, seven of them geology majors. Thanks to the support of the Science and Mathematics Division Dean, Doug Kindschi, our students were able to obtain very low-cost, HAZWOPER training that will hopefully help them locate positions in the environmental field. Certainly trudging around in the rain wearing funny white suits and big yellow boots has got to be good for something!

Christmas Alumni Gathering

As most of you know, we usually have a Christmas get-together of alumni, students, faculty, staff, and friends of the GVSU Geology Department. This year we plan to hold it December 26, hopefully in Padnos Hall so that everyone can see our new (and not-so-new) habitat. As it will be Dick's last Christmas party before his retirement we hope many of you will be able to attend to wish Dick well. Look for more details later in the fall!

Jurassic Park

This Newsletter is intended to suggest that the department is in a significant transition; and that we've experienced some remarkable success in the last few years. But when you are up-to-your neck in swamp and surrounded by phytosaurs, the present seems more immediate than the future. Never-the-less, we must be looking forward to what lies over the horizon for the department. A year ago we concluded a self-study report identifying strengths and weaknesses, challenges, objectives, and goals. While student and faculty input are vital, alumni assessment is also critical to planning. Each year we now send out assessment surveys to alumni of classes from two, five, and ten years ago. When you receive an assessment survey, please respond. Some times graduates who do not go on in earth science or geology are reluctant to stay in touch. Our goal is to provide a quality education that prepares students for a wide variety of careers, not just in geoscience; and we are interested in **all** of our alumni (including minors). And you don't have to wait to be asked for constructive criticism; we'll listen to your comments and suggestions at any time. Ye old editor has not maintained a regular newsletter, but we hope this issue marks a return to more frequent communication with everyone from **our** department. Next time -- alumni news. See you in the Jurassic!

Geology Alumni Information

Please fill in, fold, tape, and mail this form back to us so that we can update our records and the alumni bulletin board, and gather information for our next newsletter.

Thanks much!

Name: _____

Year of Graduation from GVSU: _____

Major: _____

----------fold here

Other degrees (subject, institution, year):

_____

_____

_____

_____

Current position/institution: _____

Spouse's name: _____

Children (names and ages): _____

_____

----------fold here

_____

News you would like to share:

_____

_____

_____

_____

_____