

Charles E. Wier

INDIANA UNIVERSITY
DEPARTMENT OF GEOLOGY



NEWS LETTER No. 6

1957

INDIANA UNIVERSITY

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William D. Thornbury, Editor

Contributors

C. W. Beck

C. R. Deiss

R. E. Esarey

W. R. Lowell

Judson Mead

H. H. Murray

J. B. Patton

T. G. Perry

C. J. Vitaliano

Bloomington, Indiana

May, 1957

CONTENTS

Page

Greetings to Alumni	1
Senior Teaching Staff	1
Graduate Assistants	1
Research Assistants	2
Fellows	2
Non-Academic Staff	3
Faculty Scholarship Award	3
Library Expansion	3
Visiting Professor	3
Journal Club Programs	3
Recent Graduates in Geology	5
So Long, Mount Washington	6
Faculty Loss	6
Shell Fellowship	6
Vital Statistics	6
News Items	7

GREETINGS TO ALUMNI

Charles F. Deiss

For the sixth consecutive year, it is my pleasure and privilege to extend the greetings of the faculty to the graduates of the Geology Department. Since our fifth NEWS LETTER was sent to you about this time last year, several events have occurred that are interesting and should become important to the Department.

In the past two NEWS LETTERS, I have commented on the improvement in quality of our new majors and graduate students and on the need for more money for fellowships and assistantships in order to attract high-grade students to Indiana University. I am happy to report that two new fellowships were added this year, one in the amount of \$2000 by the Shell Oil Company in Geophysics for an M. A. candidate and one in the amount of \$600 by the Cities Service Oil Company for a junior. In addition to renewing its fellowship of \$1500 plus tuition the California Company has given \$2100 in three years and the Cities Service Oil Company will give \$300 next year to the Department for unrestricted use.

We shall use part of this money to pay the board, room, and transportation for two graduate students who will do geophysical field research this summer under Professor Mead's direction in the vicinity of our training station in western Montana. This will be the first time that graduate work in geophysics is taught in Montana and represents an expansion of the training program of our Geologic Field Station. A new cooperative program with Montana State University for use of the Field Station also is being negotiated by the Board of Trustees to provide broader associations for the faculties and graduate students of both universities.

During the current academic year, we have three National Science Foundation fellows: David A. Boots, James R. Dodd, and Jack L. Harrison. When the awards were announced on March 19 for National Science fellowships for next year, Indiana University received six, of which three, or half of those made to the entire University, were to resident geology students: David A. Boots, James R. Dodd, and Ralph E. Hunter. Two of our other students received honorable mention -- Ronald C. Crane and Don M. Triplehorn.

The Indiana General Assembly this year appropriated to the University enough money to complete the drawings and start construction by 1959 of a new building to house the Geology Department. Plans for this building are not advanced enough to report on them in detail, but by next year, you will hear much about the progress on our new home.

Professor Harry E. Wheeler, of the University of Washington, has been busy teaching stratigraphy and historical geology, writing a paper with Professor Haydn H. Murray on the glacial control of Pennsylvanian sediments, and giving with Drs. Mead, Vitaliano, Lowell, Patton, and other professors, a high-powered seminar for seven graduate students. We shall miss Dr. Wheeler next year and are happy that he could be in Bloomington this year.

Dr. John B. Droste will join our faculty next September as an Assistant Professor to teach Professor Murray's classes in clay mineralogy, sedimentary petrography, and sedimentation. Dr. Murray is leaving academic life to become the Director of Research for the Georgia Kaolin Company. His office will be in Elizabeth, New Jersey. We shall miss Dr. Murray and we wish him success and much satisfaction in the industrial world.

May I again invite you most cordially to visit us here on the campus whenever you can. A warm welcome also awaits you at our Geologic Field Station near Cardwell, Montana, each summer between June 25 and August 1.

We hope that this NEWS LETTER will bring each of you new warmth and information about old friends. We send it to you with the best wishes of each of us.

SENIOR TEACHING STAFF FOR 1956-57

Carl Wellington Beck, Professor of Mineralogy.
Charles Frederick Deiss, Chairman and Professor of Geology.
Ralph Emerson Esarey, Associate Professor of Geology.
Wayne Russell Lowell, Associate Professor of Geology.
Judson Mead, Associate Professor of Geophysics.
Haydn Herbert Murray, Associate Professor of Geology.
John Barratt Patton, Professor of Geology.
William David Thornbury, Professor of Geology.
Charles Joseph Vitaliano, Associate Professor of Geology.
Harry Eugene Wheeler, Visiting Professor of Geology.

GRADUATE ASSISTANTS

Alan A. Colville, Gary, Indiana, B. S., Indiana University, 1954. Alan expects to complete his work for an A. M. degree in geophysics in February, 1958. He will do geophysical interpretation for the Sohio Oil Company in Oklahoma City this summer.

Michael T. Cowen, Wabash, Indiana, B. S.,

Indiana University, February, 1957. Mike plans to get his A. M. degree in February, 1958. His thesis will be a field project in Montana, and he expects to do the field work this summer.

William T. Elberty, West Orange, New Jersey, B. S., St. Lawrence University, 1953; A. M., Dartmouth College, 1955. Bill is working toward a Ph. D. in petrology. His thesis, written under the direction of Professor Vitaliano, is on sulfide mineralization and associated alteration of rocks from the Ungava District, Quebec, Canada. He will complete his field work this summer and should receive his doctorate in June, 1958.

Richard D. Harvey, Evansville, Indiana, B. S., Indiana University, 1956. Dick's interests lie in the field of petrology. He plans to receive his A. M. degree in February, 1958.

Richard B. McCammon, Indianapolis, Indiana, B. S., Massachusetts Institute of Technology, 1955; M. S., University of Michigan, 1956. Dick is currently a Ph. D. candidate in sedimentation and sedimentary petrology under Professor Murray. He is interested in statistical geology and has applied this tool to a black shale sequence in the San Juan area while working for the Sun Oil Company in the summers of 1955 and 1956. He plans to continue this work in the summer of 1957.

Jack L. Nelson, Schnellville, Indiana, B. S., Indiana University, 1956. Jack's main professional interest lies in paleontology and stratigraphy. After he graduates, he has a position in the petroleum industry.

Gerald P. Rupert, Linton, Indiana, B. S., Indiana University, 1956. Gerald's concentration has been in geophysics, and he expects to receive his A. M. in this field in June, 1957. After graduation, he will go to work for the The Texas Company as a geophysicist.

Marvin E. Warner, Dillsboro, Indiana, B. S., Indiana University, 1954. His geophysical research is on the magnetic characteristics of the intrusives in Montana in the area of I. U. 's geology field camp. Tentatively, Marvin plans to receive his A. M. degree in September, 1957.

RESEARCH ASSISTANTS

Ronald C. Crane, Webster, New York, A. B., Colgate University, 1955. Ron will receive his A. M. degree in June, 1957. His master's work was a sedimentology study of the Jeffersonville limestone and was supervised by Professor Murray. Ron plans to continue his studies at Indiana University for a Ph. D. His doctoral work will be under the direction of Professor Beck.

James J. Frugoni, Brooklyn, New York, B. S., St. John's University, 1952. James' research is on the magnetic characteristics of certain intrusives in Montana. He expects to receive his A. M. degree in September, 1957. After graduation he has a geophysical position with a petroleum company.

William F. Moll, Jr., Neptune Beach, Florida, B. S. in chemistry, University of Florida, 1954. Bill plans to get his A. M. degree in June, 1958. He has not become specific as yet, but seems to lean to sedimentation, sedimentary petrology, and geochemistry.

George M. Nevers, Whitefield, New Hampshire, A. B., Dartmouth College, 1956. His geophysical research is a study of the effect of drill hole self-potentials. He plans to get an A. M. degree in September, 1957. After graduation he has a job in the petroleum industry.

Frank A. Revetta, Monongahela, Pennsylvania, B. S., University of Pittsburg, 1952. Frank's concentration is in geophysics and he expects to receive the A. M. degree in June, 1957.

Richard L. White, Centerville, Indiana, A. B., Earlham College, 1953. Dick is due to get his A. M. in June, 1957. His thesis is on electrical resistivity modeling problems. After graduation he has a geophysical position with Standard of California.

FELLOWS

David A. Boots, Akron, Ohio, A. B., Montana State University, 1956. Dave is at present the holder of a National Science Foundation Fellowship. His professional interests lie in the fields of economic geology and mining geophysics. He expects to receive his A. M. degree in June, 1957, and plans to continue his studies for a Ph. D. at the California Institute of Technology.

James Robert Dodd, Bloomington, Indiana, A. B., Indiana University, 1956. James is also a current holder of a National Science Foundation Fellowship. His interests lie in paleontology and stratigraphy. He expects to receive his A. M. degree in June, 1957, and plans to study for a Ph. D. in paleoecology at the California Institute of Technology.

Jack L. Harrison, Granger, Indiana, B. S., Indiana University, 1954; A. M., Indiana University, 1955. Jack expects to receive his Ph. D. in September, 1957. His doctoral dissertation, written under the direction of Professor Murray, is "Sedimentation Conditions in the Interval between the Paoli Limestone and the Beech Creek Limestone in the Lower Chester of Indiana". Starting June 1, 1957,

Jack will be employed full time as the clay mineralogist of the Indiana Geological Survey.

Bert Renzetti, New York City, A. B., Columbia University, 1949; A. M., Indiana University, 1952. Bert expects to receive his Ph. D. degree in June, 1957. His thesis, supervised by Professor Vitaliano, is entitled "Geology and Petrogenesis at Chuquicamata, Chile". After graduation, Bert will probably return to Chile to do mining exploration work.

Don Triplehorn, Bluffton, Ohio, A. B., Ohio Wesleyan, 1956. Don is the current holder of the California Company Research Fellowship. Don came to I. U. to work in the fields of sedimentation and clay mineralogy with Professor Murray. He will continue his studies for a Ph. D. degree at the University of Illinois next year.

NON-ACADEMIC STAFF

Department of Geology

Bernice M. Banfill, Administrative Assistant
Theodore H. Appleton, Accountant
Maynard E. Collier, Analytical Chemist
Patricia Anderson, Secretary
Herbert P. Dutton, Caretaker, Geologic Field Station
Ross Hickam, Preparator
Charles S. Miller, Instrument Maker
William H. Moran, Chief Draftsman
Richard D. Walker, Librarian

FACULTY SCHOLARSHIP AWARD

The annual scholarship award made by the faculty to the undergraduate student with the highest scholarship record thru his junior year went to Ralph Eugene Hunter. Ralph had a 2.8 point average for all his university work and a 2.87 average for his courses in geology. The award consists of a Brunton compass suitably engraved for the recipient. Congratulations Ralph!

LIBRARY EXPANSION

On March 1, 1957 the Geology Library holdings reached a total of 20,500 volumes. As many of you know, the Library has for a long time been feeling the pinch of severely cramped headquarters. Housing was needed for the books which heretofore have been locked in bookcases in the hallway on the top floor of Owen Hall. Recently, the Geology Department drafting section moved into more spacious quarters in the new Law Building. This provided us with the long sought opportunity to expand. The opening of a long-closed

door situated behind the "new periodical" stacks has enabled us to join the old and new units. The area and the seating capacity of the library have been doubled. All geological and topographic maps have been brought under one roof and now are physically, as well as officially, a part of the Library. At present, we are cataloging, classifying, and generally reorganizing our map holdings in order that they may be readily available for use in the Library. Geologic maps are being purchased, a number of the from foreign countries, to fill in gaps in our collection. It is hoped that we may soon be able to add to our collection many more geologic maps of foreign countries.

VISITING PROFESSOR

Harry Wheeler, professor of geology at the University of Washington in Seattle, was a visiting professor at I. U. in 1956-57. He taught the stratigraphy courses and historical geology. Harry livened up the department with his enthusiasm and new ideas. Both the teaching staff and students at I. U. feel very fortunate to have had this association with Dr. Wheeler because of his outstanding reputation as a stratigrapher. We hope that Dr. Wheeler benefited by his associations at I. U. and will have some fond memories of his stay because we hate to see him leave.

JOURNAL CLUB PROGRAMS

During the academic year of 1956-57, Professor T. G. Perry again served as Chairman of the Journal Club Committee; he was assisted in his chores by Professor C. W. Beck and Messrs. Ralph Hunter, Dick White, and Jack Nelson. Dick White developed into a first-rate projectionist, Ralph Hunter faithfully attended to the advertising of forthcoming programs, and Jack Nelson, as President of the local chapter of SGE, arranged two Journal Club programs each semester.

<u>Date</u>	<u>Speaker</u>	<u>Subject</u>
Sept. 17	Dr. J. B. Patton, Indiana University	"Underground Storage of Liquid Hydrocarbons"
Sept. 24	Dr. Al Gutstadt, Indiana Geological Survey	"Geology and Scientific Method"
Oct. 1	*Mr. J. B. McKnight, Indiana Limestone Institute	"The Nation's Building Stone"
Oct. 8	Dr. C. L. Bieber, Depauw University	"Observations on Historical Geology in Europe"

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|---------|---|--|---------|---|---|
| Oct. 15 | Dr. John Irwin,
Astronomy Department,
Indiana University | "Artificial Satellites" | Jan. 7 | Dr. H. W. Scott,
University of
Illinois | "Geology of the Near
East" |
| Oct. 17 | Dr. Y. K. Ben-
tor, Director
Geological Sur-
vey of Israel | "The Geology of Israel" | Jan. 14 | Dr. Carl W. Beck,
Indiana University | "The Mineralogy of
Kidney Stones" |
| Oct. 22 | Dr. H. W. Wheeler,
Indiana University
and University of
Washington | "Base Level Control
Patterns in Cyclothem
Sedimentation" | Feb. 4 | Dr. H. H. Gray,
Indiana Geological
Survey | "Practices and Procedures
in the Preparation of
Geologic Maps" |
| Oct. 29 | Dr. H. H. Murray
and Dr. C. J.
Vitaliano, Indiana
University | "Reminiscences of the
20th International Geolo-
gical Congress" | Feb. 11 | Dr. R. W. Lounsbury,
Purdue University | "Mineralogy of the
Palouse Loess" |
| Nov. 5 | Dr. Duncan McCon-
nell, Ohio State Uni-
versity | "The Petrology and
Mineralogy of Phos-
phorites" | Feb. 14 | Mr. R. H. Dott,
Distinguished
Lecturer, American
Association of
Petroleum Geolo-
gists | "The A. A. P. G. and
How It Functions" |
| Nov. 7 | Mr. D. A. Myers,
Distinguished Lec-
turer, American
Association of Pet-
roleum Geologists | "Geology of the Late
Paleozoic Horseshoe
Atoll of West Texas" | Feb. 18 | Mr. William Elberty,
Graduate Student,
Indiana University | "Geology of the Ice
Islands" |
| Nov. 12 | Dr. Charles Collin-
son, Illinois Geological
Survey | "Chitinozoa; a New
Area for Research,
a New Stratigraphic
Tool" | Feb. 25 | *Mr. R. B. Sublett,
Division Exploration
Manager, W. C.
McBride Company,
Inc. | "Development of
Eldorado Northeast
Pool, Saline County,
Illinois" |
| Nov. 19 | Dr. L. L. Sloss,
Northwestern
University | "Facies Studies in
Oil Exploration" | Mar. 4 | Dr. Claude Hibbard,
University of Michigan | "The Use of Vertebrate
Fossils in Cenozoic
Stratigraphy and in
Climatic Inter-
pretation" |
| Nov. 26 | *Mr. O. T. Bright,
Lane-Wells Com-
pany | "Introduction to
Radioactivity" | Mar. 11 | Mr. Richard Walker,
Librarian, Geology
Department, Indiana
University | "The Geologist and
the Library" |
| Dec. 3 | Mr. R. K. Leininger,
Indiana Geological
Survey | "Color and Colora-
tion of Minerals" | Mar. 18 | Dr. Philip Harrison,
Indiana Geological
Survey | "Deposition of Ground
Moraine as Inferred
from a Till-Fabric
Study" |
| Dec. 10 | Dr. W. D. Johns,
Washington Univer-
sity | "Some Aspects of
Structural Changes
During the Diagenesis
of Clays and Their
Implications" | Mar. 25 | Dr. John Huddle,
Supervising Geolo-
gist, U. S. Geologi-
cal Survey, Lexington,
Kentucky | "Character, Extent,
and Classification of
Pennsylvanian Rocks
in Eastern Kentucky" |
| Dec. 17 | Mr. Paul Hughes,
Illinois Geological
Survey | "Geology Adjacent to
Rio Grande River from
Presidio, Texas to Del
Rio, Texas, and its
Application to Possible
Damsites" | Mar. 26 | Dr. Gordon Atwater,
Distinguished Lecturer,
American Association
of Petroleum Geologists | "The Louisiana Offshore
Province" |

- Apr. 1 Journal Club meeting canceled because of A. A. P. G. meeting in St. Louis.
- Apr. 8 Dr. C. D. Holmes, University of Missouri "Glaciation in Western and Central New York"
- Apr. 12 Dr. Byron Cooper, Distinguished Lecturer, American Association of Petroleum Geologists "Appalachian Folding: A Control of Paleozoic Sedimentation"
- Apr. 15 Films Title not known
- Apr. 22 Spring recess
- Apr. 29 Dr. Judson Mead, Indiana University "Geophysics of Indiana Coal"
- May 6 Mr. N. M. Smith, Indiana Geological Survey "Salem Limestone of the Indiana Outcrop"
- May 13 Dr. R. C. Emmons, University of Wisconsin Title not specified; subject will concern igneous petrogeny.
- May 20 Dr. Charles F. Deiss, Indiana University and Indiana Geological Survey "Structure of Sawtooth Range, Montana"
- *Program sponsored by SGE
- A. M., June, 1956
Boyce, Malcolm W.
Thesis: "The macropaleontology of the Osgood formation (Niagaran) in Ripley County, Indiana".
- Edwards, Benjamin, III
Thesis: "Depositional environments of middle Chester (Upper Mississippian) in Indiana".
- Koenig, James B.
Thesis: "The petrography of certain igneous dikes of Kentucky".
- Mahorney, James R.
Thesis: "Geology of the Garrity Hill area, Deer Lodge County, Montana".
- Rooney, Rosalia Rey
Thesis: "Relations between spontaneous potential and detailed petrology in three drill holes."
- M. A. T., June, 1956
Ba, Donald Aung
Sheldon, Byron F.
- PH. D., June, 1956
Noel, James A.
Thesis: "The geology of the east end of the Anaconda Range and adjacent areas, Montana".
- Rooney, Lawrence F.
Thesis: "A stratigraphic study of the Permian formations of part of southwestern Montana".

RECENT GRADUATES IN GEOLOGY

- B. S., June, 1956
Bedwell, Stephen F.
- Conley, Jack F.
- Huff, Kenneth O.
- McCormick, John A.
- Nelson, Jack L.
- Rudman, Robert A.
- Rupert, Gerald B.
- Wakeman, James F.
- Yurkas, George J.
- Theodosios, Steven D.
Thesis: "The geology of the Melrose area, Beaverhead and Silver Bow Counties, Montana".
- A. B., September, 1956
Dodd, James R.
Fritz, Arthur J.
- B. S., September, 1956
Harvey, Richard D.
- Riddle, John T.
- Rommel, Alan J.
- Wright, Daniel O.
- Yamamoto, Teruo

A. M., September, 1956
Schemehorn, Neil R.

Thesis: "Sedimentation study of New Albany shale, Rockford limestone, and New Providence shale in Indiana".

Christensen, Evert W.

Thesis: "Petrography of plumasite, altered enstatite, and metamorphosed quartz-iron rocks from the Gilliam Prospect, Madison County, Montana".

Ph. D., September, 1956

Moore, George T.

Thesis: "The geology of the Mount Flucer area, Montana".

SO LONG, MOUNT WASHINGTON

Professor Donald E. Hattin will resume his teaching duties in September after a military leave of absence of two years. During the past year and a half, he has been stationed at the Mt. Washington Icing Research Annex in New Hampshire; prior to this assignment, he was stationed for six months at the Wright-Patterson Air Force Base in Ohio.

At Wright-Patterson Field Don held the lengthy title of "Research and Development Staff Assistant in the Cockpit Standardization Unit of the Directorate of Flight and All-Weather Testing". He volunteered for transfer to Mt. Washington, where he served in the capacity of Assistant WADC Liaison Officer. Here, he has aided in projects which consist of monitoring the icing research activities at the summit of Mt. Washington and observation jet engine, Helicopter, and wind tunnel operation under extreme weather conditions. Mt. Washington, with wind velocities up to 231 miles per hour is a fine locality for observing the performance of equipment under adverse and unusual weather conditions.

While in New Hampshire, Professor Hattin addressed various civic organizations on the topographic, botanical, geological, and military aspects of Mt. Washington, and wrote several newspaper articles concerning Mt. Washington and its environs.

Professor Hattin and his family plan to return to Bloomington early in July. Don will spend the remainder of the summer in the employ of the Indiana Geological Survey.

FACULTY LOSS

Professor Haydn H. Murray has resigned his

position in the Department of Geology and Indiana Geological Survey to direct the research activities of the Georgia Kaolin Company. He leaves this coming June to assume full time duties in the East.

Professor Murray came to Indiana University in 1951, and has not only directed the clay mineralogy research for the Geological Survey, but has taught regular courses in sedimentation, clay mineralogy, and sedimentary petrography. His success in these efforts is attested to by many excellent publications and numerous successful A. M. and Ph. D. candidates who profited by his guidance.

He will make his new home in Elizabeth, New Jersey where, according to present plans, he will set up a new research laboratory for Georgia Kaolin. He hopes to find time for fundamental and applied research in clay mineralogy in addition to his administrative duties.

SHELL FELLOWSHIP

The department has recently received a graduate fellowship in geophysics from the Shell Fellowship Committee of the Shell Companies Foundation, Inc. The fellowship provides \$1500 and tuition for a graduate student interested in taking an A. M. degree in geophysics.

VITAL STATISTICS

Born to

Mr. and Mrs. Henry J. Paparazzo, a daughter, Laura, January 3, 1957

Mr. and Mrs. Keith Treadway, a son, Larry Wayne, October 25, 1956

Mr. and Mrs. Arthur Brookley, a son, Jesse James Galloway Brookley, October 5, 1956

Mr. and Mrs. Howard W. Pierce, a daughter, Lauren Ann, November 17, 1956

Mr. and Mrs. Stanley Keller, a son, George, October 21, 1956

Mr. and Mrs. Donald Cameron, a daughter, Dorothy Jane, January 28, 1957

Mr. and Mrs. Robert Voss, a son, Frederick, January 8, 1957

Mr. and Mrs. Robert Hite, a daughter, Jan Ann, ----

Dr. and Mrs. Paul Proctor, a son, Scot, -----

Mr. and Mrs. Thomas D. Jones, a daughter, Elaine, October 10, 1956

Mr. and Mrs. John Miller, a daughter, Karin Lea, October 12, 1956

Mr. and Mrs. Waller Taylor, a daughter, Lynn Marie, August 9, 1956

Mr. and Mrs. Charles Lindenschmidt, a son, Brent Charles, April 9, 1956

Mr. and Mrs. William Kaschube, a daughter, Karen, April 8, 1956

Mr. and Mrs. Robert Sublett, a son, James Lee, April 28, 1956

Mr. and Mrs. Donald Roemermann, a daughter, Karen Elizabeth, June 22, 1956

Mr. and Mrs. Robert Barbour, a daughter, Jean Elizabeth, December 30, 1956

Mr. and Mrs. Bruce Bohor, a daughter, Jacquelin, October 26, 1956

Mr. and Mrs. Wayne Erickson, a daughter, Julie Ann, August 11, 1956

Mr. and Mrs. Don Six, a daughter, Rebecca Ann, March 9, 1956

Mr. and Mrs. Dale Kline, a son, Mark Allan, September 8, 1956

Mr. and Mrs. Kenneth Vance, a son, Mark Alan, June 14, 1956

Mr. and Mrs. John R. Neel, a daughter, Jocelyn Lee, November 17, 1956

Captain and Mrs. John Davenport, a son, January 1957

Mr. and Mrs. George Yurkas, a daughter, Susan Elizabeth, October 15, 1956

Mr. and Mrs. Philip Modlin (Roz Robinson) a daughter, Jennifer, December 26, 1956

Mr. and Mrs. Maurice Biggs, a son, David Paul, March 16, 1957

Mr. and Mrs. Charles F. Passel, a daughter, Martha Louise, -----

Mr. and Mrs. Douglas Reynolds, a son, Douglas Wade II, July 8, 1956

Mr. and Mrs. Jack Nelson, a daughter, Mary Elizabeth,

Prof. and Mrs. Carl W. Beck, a son, Gregory, February 7, 1957

Mr. and Mrs. Robert Howden, a son, Marc, -----

Mr. and Mrs. William Elberty, a son, Michael, December 6, 1956

NEW ITEMS

Captain John Davenport is now stationed in Guam.

Janet Wert Crampton is continuing work on her master's thesis at Holyoke College.

David Prentiss has been promoted to Lt (JG) and is serving as assistant intelligence officer on the U. S. S. Forrestal. He says his geology is proving very helpful in his work.

Frank Williams is chief industrial engineer for Fluor Products Company at Santa Rosa, California. He would like to hear from Charley Spencer.

Dan Tudor reports that he is now "bird-dogging" in Anadarko, Oklahoma.

Jack Warren is now doing geophysical work on the east coast of Brazil near Bahia.

George Beckner is with the Carter Oil Company at Miles City, Montana. He was married in April of 1956.

Thomas Beck has been transferred from Bozeman, Montana to Durango, Colorado. Most of his work now is on uranium.

Ronald L. Rogers has changed positions from soil scientist to geologist with the Soil Conservation Service at Chickasha, Oklahoma.

George T. Moore is still doing exploration work for The California Company out of Billings, Montana.

Joe St. Jean will leave Trinity College, Connecticut to join the staff of the University of North Carolina next September, where he will teach courses in paleontology.

John R. Neel is working for Stewart-Warner Corporation in Indianapolis.

Jack Conley has temporarily forsaken seismic work with the The Texas Company for Air Force training at Bainbridge, Georgia.

John Rex Taylor seems to have deserted geology. He is with the Taylor Warehousing and Refrigerated Trucking Company in Cincinnati.

Jim Smith is project planner in the Rocketdyne Engineering Department in California.

John C. Bollenbacher is assistant chief geologist and a director of Coronado Petroleum Company, an independent Rocky Mountain oil company with headquarters in Denver.

M. M. Fidler, who still lives in Rock Springs, Wyoming is seeing that enough gas gets into Salt Lake City and environs to meet their needs.

Clay Warren writes that during the past two years he has sat on 34 wells in Utah, Colorado, Wyoming and Nebraska.

Dale Kline seems to have acquired that "settled feeling", as evidenced by his purchase of a home in Bakersfield, California. The Klines are doing well family-wise, as they have five deductions, three girls and two boys. Dale is now district geologist.

Don Six, who is also located at Bakersfield, for The Texas Company, has just returned from three months of temporary duty on offshore geology at Santa Barbara, California.

Carl W. Meyers is a 2nd Lt. USAF located at Ellington, Texas, where he is taking navigation training.

Bruce Bohor, writes that he has passed his Ph. D. prelim at the University of Illinois and is working hard on his thesis.

Bob Reno is still working for himself in the Radio-TV-Appliance Sales Service. His family remains static with 4 girls and a boy.

John Hughes has moved to Billings from Lewiston, Montana.

Bert Hale is another Bakersfield, California resident and he thinks it is a wonderful place. He finds seismic work very interesting. The Hales have 3 boys.

Dick Larsen has abandoned geology for Economics. He is a teaching associate in the I. U. Economics Department and working toward a Ph. D. degree. He was married in January to Barbara McWhorter.

Walter Burnham continues his work as counselor for foreign students at I. U.

Donald Roemer is geologist with the Carter Oil Company at Carmi, Illinois.

Our oldest alumnus, Lee F. Bennett writes that he is 84 and still enjoying life.

Wayne Erickson, as special staff geologist, now heads Gulf's Midland Texas Zone Reservoir Geological Section.

Dee Rarick is now working in the Petroleum Section of the Indiana Geological Survey.

Carroll Roberts was married Thanksgiving Day to Mary Ellen Johnson of Indianapolis. While in New York on their honeymoon, they visited the Brian Masons.

Neil Schemehorn is now working for The California Company at Harvey, Louisiana.

Everest E. Wible is district exploration manager for the Aurora Gasoline Company at Wichita, Kansas.

H. H. Bradfield writes that every raise he gives himself the Internal Revenue Service takes away from him.

Jack Harrison, who expects to complete work for his Ph. D. degree in June, will take Haydn Murray's place on the Indiana Geological Survey beginning June 1.

Dr. Caroline Kierstead and husband left March 21 for an extensive Caribbean cruise.

Bob Sublett is still located at Evansville. His growing family of 2 boys and a girl has necessitated a new home.

Al Rudman during the past three years has worked in Alabama, Mississippi, Oklahoma, Louisiana, and is now working out of Mattoon, Illinois. He expects to return to I. U. next fall to resume graduate study.

George Puscas is doing development work in the Tri-State area. He would like to hear from Lowell Plock. Lowell where are you?

Wes Williams and partner are still having luck drilling oil wells - 15 commercial wells and not a dry hole. He is located at Greenville, Kentucky.

Waller Taylor keeps busy around Jackson, Mississippi. The Taylors have 2 daughters and 2 sons.

Denny Lucas is now with The California Company at Jackson, Mississippi in the geophysical section.

Ferol F. Fish, Jr. is working toward his Ph. D. at The California Institute of Technology.

Tom Hestand has resigned as vice-president of Texota Oil Company but continues as a consultant for them. He is exploring the Koyukuk Basin in Alaska for Denver and Tulsa interests.

Bob Boyer has continued graduate work at the University of Michigan on a National Science Foundation Fellowship and expects to receive his Ph. D. degree in June. He has accepted a teaching position at the University of Texas beginning next fall.

Robert R. Meyers is now project chemist for metallurgy for the Perfect Circle Corporation.

Pres McGrain continues his work with the Kentucky Geological Survey. He says he has done his bit for I. U. by publishing two I. U. master's theses--Jack Warren's and Jim Koenig's.

Jack McIntosh is doing consulting geology at Mt. Carmel, Illinois and singing the praises of Archie Dees, a Mt. Carmel product who Jack thinks is pretty good at dunking the round ball. It seems the sportswriters agree with Jack.

Robert Strouse is doing consulting work at Salem, Illinois.

Eugene Lennart is now resident sales representative for U. S. Steel, Supply Division, in Chicago.

Paris Stockdale is still looking for uranium in the Chattanooga shale. He didn't say whether he has any hopes of finding any.

John K. Rose is senior specialist in natural resources on conservation for the Legislative Reference Service in Washington, D. C. He has decided that I. U. graduates must have all harkened to Horace Greeley's admonition as they are scarce in Washington.

Robert Hite is still doing geology in the San Juan Basin.

John R. Harris still is in Tulsa, as is Courtney Waddell.

Abdullah Sayyab received his Ph. D from the University of Iowa in June 1956 and returned to Iraq, where he is teaching geology at the University of Baghdad.

Paul Kelly is area manager, Williston Basin, for Calvert Drilling Inc.

Marshall Harrell writes that he still remembers us, even though he has not been in Bloomington for over 7 years. If ye editor's memory is correct he didn't look us up when he was last here.

Bob Shrock was recently elected vice-president, Section E., American Association for the Advancement of Science.

Dick Horton is now located in Oklahoma City. He has been with Shell Oil Company for 3 1/2 years now.

James M. Batchelor is now head of the testing laboratory of General Tire and Rubber Co. at Marion, Indiana.

Dwight Mauch has been promoted to Exploration Manager, Texas Division The Pure Oil Company, Ft. Worth, Texas.

Robert Voss is going to Law School at night in Indianapolis but says he still longs for geology.

Don Cameron is still in charge of offshore paleontologic operations for The California Company in the Gulf of Mexico. His paleo lab is in New Orleans.

Vic Olson, Bud Sorgenfei, and Don Hyer all work for The Texas Company at Lafayette, Louisiana.

Patricia Arken Gudsen will move to San Diego, California July 1, where her husband will enter pediatrics practice. The Gudsens have a son, Steven, who is 2 1/2.

William A. Thomas has been appointed to the Geological Advisory Committee of the University of Houston.

Iran Dan Taylor writes that their discovery rate in the Panhandle for all wildcats is running 28%.

Robert Grossjean is now senior vice-president of Mound Company vice-president and director of Bullard Drilling Company of Houston, Texas.

Richard A. Surface is now in the Production Engineering Laboratory, General Petroleum Corporation, Santa Fe Springs, California.

Conrad P. Gravenor has given up teaching at the University of Alberta to become chief geologist for the Research Council of Alberta.

E. P. Hunt, who is retired from Stanford University and living in Tahoe City, California is planning a trip to Guatamala and Mexico take colored movies of Indian life.

Art Brookley writes that Dr. Galloway's visit to the Pacific Section of the A. A. P. G. in November was enjoyed by all L. U. alumni. Art is working on offshore exploration around Santa Barbara.

Frank C. Greene writes that he is still going strong, at 71, for the Missouri Geological Survey.

Raymond S. Hunt is Division Exploration Geologist for Cities Service Oil Company at Midland, Texas.

Charles Solbrig is working as geologist for the Marquette Cement Company. He lives in Des Plaines, Illinois but travels a lot.

Harvey Fierstein writes that he has been admitted to the State Bar of California and is practicing law in Los Angeles.

Keith Treadway is 1st Lt. located at Ft. Riley, Kansas. He expects to return to I. U. next fall and complete work on his master's degree.

Frank Rago was transferred in December from Casper, Wyoming to The Texas Company's Division Office in Denver.

Thomas Mooney, who has been with the Andrew Jergen Company since 1945, is now vice-president and manager of their Burbank California plant. Mrs. Mooney, a 1930 Earlham College graduate, died on January 28, 1957.

Dr. Eula McEwan writes that she continues to enjoy her retirement and feels that life really begins at 75.

Dr. C. N. Beard of Fresno State College, writes that a Wm. M. Tucker Memorial Scholarship has been established at Fresno State College in memory of Dr. Tucker, who for many years was head of the Department of Geology and Geography of that school.

John L. Bible has been elected vice-president of Southern Geophysical Company.

Jim McCulloch still continues as western division geologist for Carter Oil Co. with headquarters at Denver, Colorado.

Dr. Hal P. Bybee has been elected to Honorary Membership in the A. A. P. G. This honor was to have been conferred upon him at the St. Louis meeting in April but Dr. Bybee died on March 30 after an extended illness. Dr. Bybee at one time was head of the Department of Geology at the University of Texas and in later years was in charge of the university's extensive oil and gas lands.

Friends of Dr. E. R. Cumings, former head of the I. U. Geology Department, will regret to hear that Mrs. Cumings died February 7, 1957 from a coronary thrombosis. Dr. Cumings has moved to Washington, D. C. where he will live with his daughter Edith.

His address is Alban Towers, Apt. 423, 3700 Massachusetts Avenue, N. W., Washington, D. C.

Don Devening reports that he resigned from The California Company in March of 1956 and now is geologist for Justiss-Mears Oil Company at Jena, Louisiana. The Devenings are maintaining their home at Jackson, Mississippi until about July 1, 1957, when they expect to have a new home ready in Jena.

John Cass has left the Alaskan Branch of the U. S. G. S. to work for The Texas Company at Farmington, New Mexico. He is doing regional structural mapping in the Paradox and San Juan basins.

Charles Passell is Division Exploration Manager for Ambassador Oil Corporation at Abilene, Texas.

Thomas Jones has been transferred from Healdton, Oklahoma to Shreveport, Louisiana.

Kenneth Huff is engineer over a logging unit for Core Laboratories Inc. at Denver, Colorado. He is expecting to be married in March, to Donna Zimmerschied of Burlington, Colorado.

Elmer Lucas feels might proud of his seven grandchildren. He is still doing consulting work during his summers.

Bennie Edwards reports that he is still sitting on wells (or did he say sitting still on wells?) in southwestern Louisiana. At any rate he claims he is enjoying his work.

Perry G. Holloway is geologist for the McCord Oil Company in Shreveport, Louisiana. His company recently purchased a gas field in Shelby County, Texas from which they expect to sell gas to Texas Eastern Transmission Company.

Ye editor recently received a nice letter from Paul Raymond, who is still located at Farmington, New Mexico, with the Texas Company. He reports that the Four Corners area is really booming. Paul is contemplating returning to school for work on his Ph. D.

Dan Kralis reports that he ran unsuccessfully for Congress in the 17th Congressional district of Texas. Whether his defeat was responsible for it or not Dan does not say, but in February he left Texas and settled in Denver, Colorado. In November he had a fire that destroyed his technical library, maps, and laboratory equipment.

Uncle Sam sent GREETINGS to Alan Rommel in October and as a result he is now stationed at Fort Bragg, North Carolina with 5th Evacuation Hospital (SMBL).

Robert L. Kidd was elected last July, president of Cities Service. He now has offices in Bartlesville, Oklahoma.

Mrs. Pauline Harker Hunter writes that she is teaching mathematics and science at Summitville, Indiana.

Wesley Pierce visited the department in June, while on vacation. Wes is still working for the Arizona Geological Survey and is mapping along the south edge of the Colorado Plateau.

Professor and Mrs. R. E. Deane paid their friends in Bloomington a welcome visit last September. "Roger" told some wild stories about his exploits on Baffin Island that strained the credulity of some of his friends. He is returning to the high latitudes this spring. This year he is going to Ellesmere Island. It is suspected by some of us that they would not let him back on Baffin Island.

George Brunton is currently a Fellow in X-ray diffraction at The Rice Institute, Houston, Texas. He is doing electron microscopy and diffraction with Dr. W. O. Milligan. After July 1, George will have a research position in the laboratories of the Pure Oil Company, Crystal Lake, Wisconsin.

Bert Renzetti has given to the Department of Geology a magnificent suite of 48 mineral specimens from Chuquicamata, Chile. These specimens range from "rare" to "very rare" to "found only at Chuquicamata".

With the arrival, in February, of a son at the home of Professor and Mrs. Beck, the Becks are now tied with the Pattons as to the number of sons. Each family has four and we are all waiting to see which family will be able to field first its own basketball team.

On March 2, Dr. Murray, a member of the Research Committee of S. E. P. M., directed a regional conference on Sedimentary Rock Research at I. U. The meeting was very successful and about seventy-five people turned out from the states of Illinois, Michigan, Ohio, and Indiana, with two from Kansas. The purpose of this conference was to acquaint the group with some of the going research at the various institutions in the Midwest.

Richard Fitch, a candidate for the A. M. degree and Miss Dorothy Cohen of Norristown, Pennsylvania, were married on January 27, 1957.

Jack Nelson, this year's president of Rho chapter of Sigma Gamma Epsilon, published an article in the November number of the COMPASS¹ entitled "A report on electric and MG-electric logs in the Fairbanks quadrangle, Sullivan County, Indiana". After completing his requirements for the A. M. degree this summer, Jack will take a job with Standard of Texas in September.

Mrs. Phyllis Renzetti was featured in an article that was published in the Indianapolis Star. She was selected for this article on the grounds that she is a native Hoosier woman who is engaged in an unusual field of interest.

Mr. John McCormick, a graduate student in paleontology, spent his Christmas vacation in Florida where he indulged in a study of Recent for (a) ms.

Professor T. G. Perry is serving as Chairman of the Geography and Geology section of the Indiana Academy of Science during the year 1957.

Mr. James Robert (Bob) Dodd, a graduate student in paleontology, has been granted a renewal of his National Science Foundation Fellowship and next fall will begin his quest for the Ph. D. degree at the California Institute of Technology.

Dr. Eugene Callaghan, former Professor of Economic Geology in the department, has terminated 7 1/2 years as Director of the New Mexico Bureau of Mines and Mineral Resources at Socorro, New Mexico, and is now Chief Geologist for Haile Mines, Inc., of New York City. Doctor Callaghan's headquarters will be Salt Lake City. Haile Mines produces mainly tungsten and manganese.

At the February meeting of A. I. M. E. in New Orleans, Professor Patton visited Ken Waters and Don Cameron, both now with the California Company in New Orleans, and with Jim Powell, who is with Victor Chemical Company at Columbia, Tennessee.

Lawrence F. Rooney (Ph. D. June, 1956) is associated with the Mobile Ohio Company of Canada, Ltd., Libyan Branch and is stationed at Tripoli, Libya. Mrs. Rooney (Buddy Rey) is also working for the Mobile Company.

James Mahorney is employed by the Standard Oil Company of Texas and is stationed at Midland, Texas. Jim visited the I. U. Geology Department on March 25; he is still single.

Steven D. Theodoses was transferred in early 1956 from the Shell Oil Company's Billing office to Denver, where he and Georgia have purchased a new home. Steve currently is doing field work in the Raton area, New Mexico.

Dean S. Clark is still with the Philips Petroleum Company. He has been moved from Utah to 2125 Gold South East, Albuquerque, New Mexico. Dean is doing field work on uranium ores in the Grants area, New Mexico.

During the past year, the Geology Department was the recipient of an excellent collection of rocks from the Riverside Cement Company Quarry at Crestmore, California. The donor was Evert Christensen, M. A. 1956. Thanks Chris.

Raymond Parker, who has been stationed in Chile in connection with his work for the Foreign Geological Service of the U. S. Geological Survey, writes that he will be back in the U. S. A. about June 1. He will be stationed near Colville, Washington and will be working on regional geology and mineral deposits for the U. S. G. S.

Al Miesch has been on leave from the U. S. G. S. during the past year to continue his graduate studies at Northwestern University. He will return to Grand Junction, Colorado in June.

"Roz" Robinson Modlin writes that despite her residence in Richmond, Virginia she remains at heart a good Yankee. She hasn't changed jobs recently but she has been changing plenty of diapers. Her second daughter arrived last December.

Jim Wilson writes that they have a good I. U. colony at Mt. Carmel, Illinois. He is doing well drilling and consulting work there.

Ad King is still investigating, interpreting, and evaluating mineral projects for the Morgan Coal Company.

George Herr not only likes his work with Victor Chemical Company in Tennessee, but he also likes the Tennessee girls. In fact, he is planning on marrying one of them in June.

Ed MacKay writes from Robinson, Illinois that he still keeping busy with consulting work. The MacKays have three boys, 8, 5, and 3 years old.

Professor Wayne R. Lowell attended the XX International Geological Congress held in Mexico City in September 1956. He presented a paper entitled "Tertiary geologic history of the Rocky Mountains in Montana, U. S. A." and also went on a week's field trip through the Pachuca-Zimapan silver and lead mining districts with some forty other geologists from many nations. Professor Lowell also presented a paper at the meeting of the Geological Society of America meeting in Minneapolis, November 2, 1956 entitled "Unconformity between Belt Series and Archean metamorphic rocks".

Joe Keyser is consulting geologist in the firm of Gipson and Keyser in Midland, Texas.

Ralph L. McDonald has been promoted to resident geologist in charge of evaluation of the Asphalt Ridge properties of the Shohio Company at Vernal, Utah.

David Lewis bade adieu to Uncle Sam last August and is now with the Military Geology Branch of the U. S. G. S. in Washington.

Friends of Luther S. Ferguson will be sorry to learn that he died from a heart attack August 31, 1956.

Work space has been gained for more graduate students by getting rid of all the old desks and installing in their place 42 inch desks. We are now able to provide space (not too much) for thirty-five graduate students.

A much-needed new classroom has been provided on the second floor of Owen by converting the laboratory formerly used for X-ray equipment into a classroom that will accommodate fifteen students. The X-ray equipment has been moved to the room formerly used by Maynard Coller.

Dick Erd visited the department last November on his way to California. He is now located at Claremont, California, where he is working on borate deposits from the Mohave Desert.

Ye editor received his yearly calendar from the Magnolia Company, thanks to D. V. Carter. Still no good cheesecake on the calendar nor have we received that Fellowship from the Magnolia Company, courtesy of D. V.

Bob Howden, writes from Mt. Vernon, Illinois that he is working as an independent geologist.

Lowell Plock is still with Gulf Oil Corporation, but he is now at Jackson, Mississippi instead of Tallahassee, Florida.

At last notice, James Koenig was working on the new geologic map of California for the California Division of Mines, Ferry Building, San Francisco 11, California.

George Wagner is employed as Micropaleontologist by Arabian-American Oil Company, 505 Park Avenue, New York, N. Y. George expects to be here for two years.

In February the Geological Survey's drilling rig encountered a strong flow of gas in the Cynthiana limestone while drilling a stratigraphic test northwest of Madison, in Jefferson County. On February 6, the gas ignited, and the drilling rig was destroyed in the ensuing explosion and fire. Fortunately driller Ray Robinson and his helper, Glen Workman, were not injured.

Malcolm Boyce received GREETINGS from Uncle Sam and as a result is located at the Army Chemical Center in Maryland.

Alan S. Horowitz has completed all requirements for the Ph. D. degree in paleontology and will receive this degree in June. He is now a research paleontologist in the recently established Denver Research Center of the Ohio Oil Company. He and Professor T. G. Perry jointly presented a paper entitled "Fauna of the Glen Dean limestone (Middle Chester) in Indiana and northern Kentucky" at the 1956 meeting of the Geological Society of America in Minneapolis.

Bill Von Osinki reports that he left Ada Oil Company for Hamilton Brothers Ltd., but is still in Midland, Texas.

Ye editor enjoyed a nice long letter from Frank Kottlowski, who is still with the New Mexico Bureau of Mines at Socorro, New Mexico. Frank reports that the Kottlowskis and Biebermans are all that is left of an originally large Indiana contingent at Socorro. He has recently completed a report on the stratigraphy of the San Andres Mountains of southcentral New Mexico that he hopes will see life ere too long as Memoir 1 of the New Mexico Bureau of Mines.

Dick Schweers reports that he enjoyed a nice visit with Dr. and Mrs. Glenn Bartle at the International Geological Congress in Mexico City. Dick is working mostly these days on southeastern Utah, where his company has a major discovery.

Professor Perry is engaged in study of the bryozoans of the Brownsport formation (Middle Silurian) of Tennessee aided by a research grant from the Geological Society of America.

Ken Vance was transferred from Bismarck, North Dakota to Billings, Montana. He is in charge of exploration in an area in northern Montana with the California Company.

Sam Riely is with Magnolia Oil Company in Lake Charles, Louisiana and appears to be prospering. On his last visit to I. U. he was driving a bright new hardtop.

Pei-Yuan Chen, a geologist with the Taiwan Survey will receive the A. M. degree in June 1957 for his work on the clays of Taiwan. He is now studying for the Ph. D. at Pennsylvania State University.

Donald Aung Ba, who received the M. A. T. degree last June, spent three months in Alabama with the groundwater branch of the U. S. G. S. before returning to his home in Burma to take a position of groundwater geologist with the government.