

INDIANA UNIVERSITY
DEPARTMENT OF GEOLOGY



NEWS LETTER No. 7

1958

INDIANA UNIVERSITY

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John B. Patton, Editor

Contributors

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Bloomington, Indiana

May 1958

CONTENTS

	<u>Page</u>
Greetings to alumni	1
Senior Teaching Staff for 1957-1958	1
Non-academic staff	1
Faculty members on sabbatical leave	2
Lost faculty members	2
New faculty members	2
Lost staff	2
New staff	2
Teaching assistants	2
Research assistants	3
Fellows	3
Faculty scholarship award	3
Industrial fellowships	4
Recent graduates	4
Television series	5
Journal Club	6
Library	7
Geologic field conference	8
Alumni breakfast	8
Sigma Gamma Epsilon	8
Vital statistics	8
News items	9
Lost souls	14
Alumni directory	15

GREETINGS TO ALUMNI

Charles F. Deiss

Among the most satisfying rewards for the Chairman of the Geology Department at Indiana University is the pleasure constantly experienced in meeting and talking with the graduates of the Department. The stimulus that results from contacts with vigorous men in the oil and mining industries, in the Geological Surveys and in geology departments is one of the major compensations offered by university life. To all of our alumni that I have talked with during the past year and to all of our other graduates with whom I have not had the privilege of talking recently, I take this opportunity to extend greetings on behalf of the geology faculty.

Recent intensification of public interest in the educational system of America, occasioned by the achievement of Russian scientists in placing the first satellite in orbit, is resulting in closer scrutiny of the entire educational system. This careful examination of our educational system doubtless will result in changes of emphasis on subject matter, increased scholarly standards, and new methods of instruction. During the past five years, the geology faculty here at Indiana University has been constantly seeking answers to these very problems. Consequently, we welcome the renewed interest in education, and the increased responsibility and growth of the Department of Geology that inevitably will result from it.

The increased interest of our alumni in geologic education was evidenced by a stimulating and serious discussion that lasted nearly two hours at an Indiana University breakfast in the Biltmore Hotel, Los Angeles, on March 11, during the annual meeting of the American Association of Petroleum Geologists. Although only nineteen persons were present, the enthusiastic and serious discussion combined with increased interest in the Geology Department made this the most significant ge-alumni gathering that I have attended in ten years. We in the Department learn much from such meetings. I take this opportunity to urge you to write to any of the faculty your ideas of how the Department of Geology can strengthen its courses and thereby make itself more useful.

Perhaps the most interesting new development in the Department since our sixth newsletter was sent to you about this time last year is the progress being made in planning the new geology building at Indiana University. On November 27, 1957, we received the first set of schematic building plans from the architects, Eggers and Higgins, in New York City. Several weeks later, a representative of the architectural firm spent four days with the

faculty and Survey scientists revising the plans. On February 15, we received the second set of plans which were greatly improved over the first attempt. During the week of March 17-22, the New York architect again visited the campus in a second comprehensive revision of the building plans. The University Administration expects to let bids and start construction of the building before the end of 1958. Although we cannot forecast the future, all indications now point to a new geology building being completed sometime between 1961 and 1963.

Again I invite you most warmly to visit the Department and campus whenever you can. As indicated in my last greetings, you also will receive a cordial welcome at our Geologic Field Station in the South Boulder Canyon near Cardwell, Montana, between June 25 and August 3.

I hope that this NEWSLETTER will again bring each of you new information about old friends and the Department. We send it to you with the best wishes of each of us.

SENIOR TEACHING STAFF FOR 1957-1958

Carl Wellington Beck, Professor of Mineralogy
Charles Frederick Deiss, Chairman and Professor of Geology
John Brown Droste, Assistant Professor of Geology
Ralph Emerson Esarey, Associate Professor of Geology
Donald Edward Hattin, Assistant Professor of Geology
Wayne Russell Lowell, Professor of Geology
Judson Mead, Associate Professor of Geophysics
John Barratt Patton, Professor of Economic Geology
Thomas Gregory Perry, Assistant Professor of Geology
William David Thornbury, Professor of Geology
Charles Joseph Vitaliano, Professor of Geology

NON-ACADEMIC STAFF

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

FACULTY MEMBERS ON SABBATICAL LEAVE

Dr. Thomas G. Perry, Assistant Professor of Geology, is on sabbatical leave this semester (Spring 1957-1958). Professor Perry is on campus and devoting his attention to several research projects which include a systematic study of the bryozoan fauna of the Brownsport formation (Middle Silurian) of west-central Tennessee. Doctors T. G. Perry and D. E. Hattin have recently completed a study dealing with the astogeny of fistuliporoid bryozoans which indicates that members of this bryozoan clan undergo little structural change during their development.

Dr. William D. Thornbury, Professor of Geology, is also on leave this spring semester. Professor Thornbury and family are in Pomona, California. Bill, with office space at Pomona College, is writing a new text in the field of geomorphology. The Thornburys will be back at Indiana University for the fall semester, 1958.

LOST FACULTY MEMBERS

Dr. Haydn H. Murray, Associate Professor of Clay Mineralogy, resigned on May 31, 1957, to accept a position as Director of Research, Research Division, Georgia Kaolin Company, with headquarters at 433 North Broad Street, Elizabeth, New Jersey. Haydn is enjoying the new position according to recent word from him.

NEW FACULTY MEMBERS

Dr. John B. Droste joined the Indiana University geology faculty as an assistant professor on September 1, 1957. Professor Droste replaces Haydn Murray and is teaching the sedimentation, clay mineralogy, and sedimentary petrology courses.

LOST STAFF

For those alumni who have not had contact with the Geology Department in the last year, it will come as sad news to learn that Ross Hickam, Department Preparator, passed away last summer. Ross suffered a stroke the morning of July 18 at the Geologic Field Station in Montana. He never regained consciousness. He was flown back to Bloomington and died on Saturday, July 27, in the Bloomington Hospital. Ross is missed by all of us in the Department and Survey.

NEW STAFF

Fred L. Wesemann was appointed as Department Preparator on August 30, 1957. Before joining the Geology Department staff, Mr. Wesemann was

employed in the Buildings and Grounds Division of Indiana University. A small part of Fred's new job will be to serve as Purchasing Agent at the Geologic Field Station in Montana each summer.

TEACHING ASSISTANTS

David R. Berendsen, Evansville, Indiana, A. B. Washington University, 1957. Dave's major interest is "soft rock" geology with a definite preference for paleontology. He plans to complete work for the A. M. degree in February 1959 and hopes to continue at I. U. for a Ph. D. in paleontology.

Eugene H. Core, West Liberty, Ohio, B. S., Bowling Green University, Ohio, 1957. Gene is specializing in petrography and petrology and will undertake a thesis on "Wall rock alteration at Tonopah, Nevada" under the supervision of Professor Vitaliano. He plans to complete work for the A. M. degree in February 1959, and will probably serve Uncle Sam for two years before taking his place in the profession.

Michael T. Cowen, Wabash, Indiana, B. S., Indiana University, 1957. Mike is concentrating on petrology and field geology and he is inclined toward a career of commercial areal geology. He plans to complete his A. M. thesis "Petrology of some extrusive rocks near Jefferson Island, Montana" in June 1958. He has accepted a job with Carter Oil Company.

Anita G. Fishman, New York, New York, B. S., Brooklyn College, 1957. Anita's interests range from "soft rock" geology to geophysics. She will undertake thesis work involving Middle Devonian strata of southeastern Indiana. She plans to complete work for the A. M. degree by February 1959.

Richard D. Harvey, Evansville, Indiana, B. S., Indiana University, 1956. Dick is assisting in petrology wherein lies his special interest in geology. He has undertaken a thesis under Professor Vitaliano's supervision that concerns wall rock alteration in the Goldfield district, Nevada. Dick plans to complete his requirements for the A. M. degree this year and for the Ph. D. degree by February 1960.

Richard B. McCammon, Indianapolis, Indiana, B. S., Massachusetts Institute of Technology, 1955; M. S., University of Michigan, 1956. Dick's concentration is sedimentary petrology and his minors are mineralogy and statistics. His thesis involves sedimentary petrology of glacial deposits along the Wabash River and will be supervised by Professor Thornbury. Dick hopes to complete work for the

Ph. D. degree by June 1960, after which he plans a career of teaching and research.

Joaquin Rodriguez, New York, New York, A. B., Hunter College, 1955; M. S., Ohio State University, 1957. "Joe" is working toward his Ph. D. degree in paleontology. His thesis "Paleontology of the Golconda formation" is being supervised by Professor Perry. "Joe" hopes to receive his degree in September 1959. The academic year 1959-1960 will probably find him behind a lectern because his present inclination is toward a career of teaching.

RESEARCH ASSISTANTS

Nityananda Bhattacharya, Banaras, India, B. S. C., M. S. C., Banaras Hindu University, 1949, 1951. "Bat" has major interest in glacial geology with a minor in sedimentary petrography. His thesis will be directed by Professor Thornbury. "Bat" anticipates completion of work for the Ph. D. degree by June 1960.

Alan A. Colville, Gary, Indiana, B. S., Indiana University, 1954. Structural geology and geophysics are Alan's fields of specialization. He has completed the requirements for the A. M. degree, which he will receive this June. He has initiated work for a thesis on paleomagnetism under the direction of Professor Mead. Alan plans to complete his Ph. D. dissertation by February 1960.

Barry T. Haff, Bronxville, New York, B. S., Trinity College, Hartford, Connecticut, 1957. Barry is a "soft rock" man with main interests in stratigraphy and paleontology. He is undertaking a minor in paleobotany. Barry expects to receive the A. M. degree in June 1959.

Bernard D. Karp, Philadelphia, Pennsylvania, A. B., Earlham College, 1957. Bernie plans to receive his A. M. degree in February 1959. He remains undecided regarding specific interests but is inclined toward paleontology, stratigraphy, and sedimentation.

Lawrence R. Lebauer, New York, New York, B. S., City College of New York, 1957. Petrology and clay mineralogy are Larry's special fields of endeavor. He plans to receive the A. M. degree in June 1958 after completing his thesis "Wall rock alteration, Big Divide area, Nevada". Larry's immediate future depends largely upon the draft situation of the coming summer.

David H. Phail, Southampton, L. I., New York, A. B., Antioch College, 1957. Dave has not selected any special facet of geology but is leaning toward geomorphology. He plans to complete studies

leading to the A. M. degree in June 1959. Dave's post-L. U. plans rest mainly upon the whims of Uncle Sam.

FELLOWS

Ronald C. Crane, Webster, New York, A. B., Colgate University, 1955. Ron held the California Fellowship during his first year at L. U. and then was research assistant to Professor Murray for a year. His geological interests are petroleum, mineralogy, and clay mineralogy. Ron is undertaking a thesis on the subject "Physical and structural properties of synthetic ceramic mixtures", under the direction of Professor Beck. Ron plans to complete requirements for the Ph. D. degree in June 1958, after which he will take a position in exploration geology with Standard of California.

William T. Elberty, Jr., Maplewood, New Jersey, B. S., St. Lawrence University, 1953; A. M., Dartmouth, 1955. Bill's special fields are petrology and mineralogy. His thesis "Relation of clay mineralogy to physical properties of ceramic materials" is under Professor Beck's supervision and is now nearing completion. Bill plans to finish his Ph. D. work in August 1958. He will assume teaching duties at St. Lawrence University in September.

John W. Gilmore, Bangor, Maine, B. S., University of Georgia, 1955. John is primarily interested in sedimentation. He is currently completing his thesis "Petrology of the Rosiclare sandstone" under the direction of Professor Droste. John plans to complete graduate work leading to the A. M. degree in June or September 1958, after which he will take a position with the Carter Oil Company.

Helmo Rand, New York, New York, B. S., City College of New York, 1957. Helmo is concentrating in geophysics and has undertaken a thesis under Professor Mead's supervision that involves seismic investigation of the thickness of Tertiary rocks in southwestern Montana. He holds the Shell Fellowship for the 1957-1958 academic year. Helmo plans to complete work for the A. M. degree in February 1959.

FACULTY SCHOLARSHIP AWARD

The annual faculty scholarship award went to Mr. John Stephen Parker this year. The award is made to the undergraduate student with the highest scholarship record through his junior year. The competition was quite keen, but Mr. Parker finished in front with a 2.59 point average. The award consists of a Brunton compass which is presented at

the second meeting of Journal Club each Fall Semester.

INDUSTRIAL FELLOWSHIPS

The Department is pleased to announce that new fellowships have been established by the Arketex Ceramic Corporation and the Standard Oil Company of Texas. The Shell Fellowship in geophysics has been renewed for the coming year.

The Arketex Ceramic Corporation Fellowship provides \$1700.00 plus basic fees for a student in the fields of mineralogy, petrography, or sedimentation.

The Standard Oil Company of Texas Fellowship provides \$1500.00 plus basic fees for a student interested in pursuing study toward the A. M. degree in geology or geophysics.

The Shell Fellowship provides \$1800.00 to \$2100.00 and basic fees for a student pursuing the A. M. degree in geophysics.

RECENT GRADUATES

A. B., June 1957

Hunter, Ralph E.

B. S., June 1957

Clark, Howard Orman

Cowen, Michael T.

Hatfield, Craig B.

Kirk, Richard E.

Meyer, Frederic D.

Pruett, Frank D.

Rodriguez, Daniel R.

Rommes, Everett J.

Ross, Theodore W.

Winter, Wilbur B.

A. M., June 1957

Boots, David A.

Chen, Pei-yuan

Thesis: Clay deposits in northwestern Taiwan (Formosa), China.

Dodd, James R.

Holt, Olin R.

Thesis: A petrologic study of the Cypress, Tar Springs, and Mansfield sandstones.

Jenkins, Robert D.

Thesis: The geology of the Hillham Quadrangle, Martin, Orange, and Dubois Counties, Indiana.

McCormick, John A.

Newsom, Donald R.

Triplehorn, Don M.

Tudor, Daniel S.

Thesis: A seismic refraction survey of Johnson County, Indiana.

Wagner, George R.

Thesis: Sedimentation study of a lower Pennsylvanian conglomerate in Martin County, Indiana.

White, Richard L.

Thesis: A study of resistivity logging problems by the use of wedge models.

Yamamoto, Teruo

Ph. D., June 1957

Brunton, George D.

Thesis: The crystal structure of callaghanite.

Horowitz, Alan S.

Thesis: Fauna of Glen Dean limestone (Chester) in Indiana and northern Kentucky.

Renzetti, Bert L.

Thesis: Geology and petrogenesis at Chuquicamata, Chile.

A. B., September 1957

Pee, Howard W.

B. S., September 1957

Abrams, Jon B.

Burditt, Donald C.

Ogle, Ronald K.

Schwartz, Samuel R.

Shirley, Galen N.

A. M., September 1957

Leininger, Richard K.

Thesis: Chemical composition of a partially weathered Illinoian till.

Nelson, Jack L.

Nevers, George M.

Thesis: Time variations of self potential and fluid resistivities in drill holes.

Prinz, Martin

Thesis: The origin of the muscovite in the Alleghenian sandstones of Indiana.

Revetta, Frank A.

Sirvas, Ernesto

Thesis: Petrography and mineralization of the East Pima project.

Wakeman, James F.

Thesis: The structure, stratigraphy, and gas storage potentials of an area near West Point, Indiana.

Whaley, Joseph F.

Thesis: Some computational aids for shallow refraction seismograms.

Ph. D., September 1957

Bundy, Wayne M.

Thesis: Wall rock alteration in the Cochiti mining district, New Mexico.

Note: In 1956 the first A. M. candidates graduated under the new policy that offers the student the option of a thesis or a foreign language proficiency.

TELEVISION SERIES

During the past year the I. U. Radio and Television Service called on the Geology Department to present a television series. With the help of two members of the Indiana Geological Survey, the faculty presented a fifteen-week series entitled "Our Geologic Heritage".

Telecasting began on the local channel, WTTV, on December 27 and the last show was presented on April 2. An outline of the series follows:

December 27	The Earth's Face	Professor Patton
January 3	Records in Stone	Professor Hattin
January 10	Indiana Fossils	Professor Perry
January 17	Evolution of Life	Professor Perry
January 24	Great Ice Age	Professor Thornbury
January 31	Minerals	Professor Beck
February 7	Story of Rocks	Professor Vitaliano
February 14	Black Gold	Professor Esarey
February 19	Titan Coal	Dr. Charles E. Wier
February 26	Quest for Metal	Professor Lowell
March 5	Exploring with Geophysics	Professor Mead
March 12	Nonmetallic Resources	Dr. Duncan J. McGregor
March 19	Role of Clay	Professor Droste
March 26	Gem Minerals	Professor Beck
April 2	Indiana's Geologic Heritage	Professor Deiss

Members of the "cast" were very pleased that the entire series was filmed. "Our Geologic Heritage" is being viewed on 11 other channels in the Indiana University State TV network. The state-wide coverage afforded will bring geology into the homes of more than 100,000 families.

Illustrative materials of many sorts were used as educational aids for the show. Thus the viewer was presented with mineral and rock specimens, fossils, equipment, slides, charts and diagrams, all calculated to arouse and hold his interest. The television series was directed at high school students, but would prove very informative to the intelligent layman as well.

JOURNAL CLUB

Professor Carl W. Beck served as Chairman of the Journal Club Committee during the academic year 1957-1958. The Vice-Chairman was Professor Donald E. Hattin; student members of the committee were Donald H. Buchholz, John S. Parker, and Douglas W. Reynolds. As President of the Indiana University chapter of S. G. E., it was Don's lot to arrange two Journal Club programs each semester. John was the projectionist for the meetings, and was equally adept at projecting 2 by 2 colored slides or 3 by 4 black-and-white. Doug handled the advertising and posting of programs, a background, but important, job in the organization of the Journal Club. In addition to the regular Journal Club meetings, six special meetings to accommodate distinguished lecturers of the A. A. P. G. were arranged.

September 16

Professor W. D. Thornbury, Department of Geology, Indiana University "A Geologic Interpretation of a Southern Mountaineer".

September 23

Professor W. R. Lowell, Department of Geology, Indiana University "Tertiary Geologic History of Southwestern Montana".

September 30

Professor R. E. Esarey, Department of Geology, Indiana University "Underground Storage of Natural Gas".

October 7

Dr. K. E. Bullen, University of Sidney, Sidney, Australia "Seismology and the Earth's Interior".

October 14

Mr. Jack Harrison, Indiana Geological Survey, Indiana University "Behaviour of Clay Minerals during Weathering".

October 21

Professor W. C. Krumbein, Northwestern University, Evanston, Illinois "Quantitative Stratigraphic Analysis".

October 28

*Professor Thomas F. Barton, Department of Geography, Indiana University "The Geographic Regions of Thailand and some Conservation Problems".

November 11

Professor John B. Droste, Department of Geology, Indiana University "The Tills of Northeastern Ohio and Northwestern Pennsylvania".

November 18

Professor Robert F. Black University of Wisconsin, Madison, Wisconsin "Permafrost and Cold Climate Geomorphology".

December 2

*Mr. John R. Labens, Jr., Oil Research, Inc., Evansville, Indiana "Core Analysis in Illinois, Indiana, and Kentucky".

December 9

Dr. Donald L. Graf, Illinois Geological Survey, Urbana, Illinois "Structural and Compositional Variations in the Mineral Dolomite".

December 16

Dr. H. P. Ulrich, Purdue University, Lafayette, Indiana "Geology and Soil Types".

January 6

Mr. Ned Smith, Indiana Geological Survey, Indiana University "Crossbedding and Sandstone Trends in the Chester Rocks of the Illinois Basin".

January 9

Dr. A. I. Levorsen, Distinguished Lecturer, A. A. P. G. "Some Applications of Regional Paleogeology".

January 13

Dr. Ralph E. Grim, University of Illinois, Urbana, Illinois "A Geologist Visits South Africa".

February 3

Dr. Marshall H. Wrubel, Department of Astronomy, Indiana University "The Evolution of the Stars".

February 5

Dr. D. L. Blackstone, Distinguished Lecturer, A. A. P. G. "The Tectonic Framework of the Rocky Mountains".

February 10

Mr. S. A. Friedman, Indiana Geological Survey, Indiana University "Channel Sandstones in the Coal-bearing Rocks of Indiana".

February 13
Mr. Kenneth E. Hill,
Distinguished Lecturer,
A. A. P. G.
"Future Growth and
Financial Require-
ments of the World
Petroleum Industry".

February 17
*Professor A. A. Miller,
Reading University,
England
"Glacial Flow on
the Jungfrauoch".

February 24
Dr. William J. Wayne,
Indiana Geological Survey,
Indiana University
"Geologic Features
of Southampton
Island".

March 3
Dr. K. B. Woods,
Purdue University,
Lafayette, Indiana
"Engineering
Aspects of Perma-
frost".

March 10
Dr. S. S. Goldich,
University of Minnesota,
Minneapolis, Minnesota
"Measuring
Geologic Time --
the A⁴⁰/K⁴⁰
Method" and
"Geochronology
of the Pre-Cam-
brian of the Lake
Superior Region"

March 17
Dr. William F. Jenks,
University of Cincinnati,
Cincinnati, Ohio
"Relation between
Copper Deposits
and Post-ore
Eruptives".

March 18
Dr. H. A. Ireland,
Distinguished Lecturer,
A. A. P. G.
"Geopolitics and
Oil Development
in the Middle East".

March 24
Mr. Frank H. Walker,
Indiana Geological Survey,
Indiana University
"Stratigraphy of
the Lower Chester
in Eastern Kentucky".

March 31
Dr. James M. Schopf,
U. S. Geological Survey,
Columbus, Ohio
"Interpretation of
Lithologic Features
of Coal".

April 1
Dr. S. K. Runcorn,
Kings College, Newcastle-
on-Tyne, England,
Distinguished Lecturer,
A. A. P. G.
"Paleomagnetism".

April 14
Dr. K. E. Caster,
University of Cincinnati,
Cincinnati, Ohio
"Geology of
Tasmania".

April 21
*Mr. Arlo Landolt,
Department of Astronomy,
Indiana University
"A Trip to the
South Pole".

April 29
Dr. Tj. H. van Andel,
Distinguished Lecturer,
A. A. P. G.
"Application of
Recent Sediment
Studies to the Inter-
pretation of Ancient
Deposits".

May 5
Dr. Charles E. Wier,
Indiana Geological Survey,
Indiana University
"Recent Work in
Coal Resources".

May 12
Dr. Wilton N. Melhorn,
Purdue University,
Lafayette, Indiana
"Geology of
Mackinac Straits".

May 19
Dr. Donald E. Hattin,
Department of Geology,
Indiana University
"Experiences of a
Geologist on Mt.
Washington".

*S. G. E. sponsored programs

LIBRARY

The collections of the Indiana University Geology Department Branch Library continue to increase. As of March 15, 1958, the library contained approximately 22,000 volumes, an increase of 1,500 volumes over last year.

The collection of geologic and topographic maps also continues to expand. As we mentioned last year, the map collection was being classified for more convenient use. This classification is almost complete, and the maps are housed in a separate wing of the library and ready for use. At present we have 3,600 geologic maps plus topographic maps of the United States and its possessions in the collection.

The library has just started a collection of separates or reprints. Some of these reprints are from journals already in the Geology Department Library. Many others are from journals that publish material of geologic information only incidentally. Some of the latter journals are housed in other departments in the University library, and others the

GEOLOGIC FIELD CONFERENCE

The Ninth Indiana Geologic Field Conference "Rocks Associated with the Mississippian-Pennsylvanian Unconformity in Southwestern Indiana" was held October 4, 5, and 6, 1957, with headquarters in Spring Mill Inn, Mitchell, Indiana. Exposures of Chester and Mansfield rocks in Lawrence, Martin, Orange, and Crawford Counties were visited. A feature of the conference that seems to have been of particular interest was a spirited panel discussion on the subject "Criteria for Differentiation of Mississippian and Pennsylvanian Rocks".

Approximately 85 persons took advantage of the pre-conference tour of the new plant and mine of the National Gypsum Company near Shoals.

Total registration at the conference was slightly over 200: participants came from as far away as Maryland and Minnesota.

The conference committee consisted of T. G. Perry, and the following members of the Geological Survey: H. H. Gray (Chairman), T. A. Dawson, D. J. McGregor, and W. J. Wayne.

ALUMNI BREAKFAST

The Alumni Breakfast at the A. A. P. G. meetings in Los Angeles was well attended despite the fact that California weather prevented Diz Dean, Evert Christensen, and Dick White from arriving in time. Dick Erd also spent three hours on the freeway, but finally made it. Seems they have snow in southern California, also. The list of those present includes: Dr. Deiss, Haydn Murray, Dale Kline, Fred Schweers, Gerald Carpenter, Pat Arkin Gerdson, Ray Robbins, Dwight Mauck, Orville Bandy, Walt Spangler, W. A. Thomas, R. R. Shrock, Dick Erd, H. H. Bradfield, L. S. Parrish, Bob McNeal, Tom Hiestand, John Moore, and Ralph Esarey. Bill Thornbury, who is temporarily living in Pomona couldn't make it; and regrets came from Bob Kidd, Arch Addington, D. V. Carter, and several others. Doctor Deiss led a very interesting discussion of the prospects for a new geology building, and from this subject the group drifted into a consideration of ways and means of getting more and better students into the graduate fields of geology at Indiana. The discussion was quite active and all present obtained some new ideas. This was one of the best alumni meetings we have ever had.

Rho Chapter of Sigma Gamma Epsilon at the present time has twenty-four active members. Of these, five were initiated in the fall, with all due ceremonies and banquet.

The chapter has had a full and varied program during the year. The annual fall beer blast was a rousing success as usual. The S. G. E. fall mixer was revived and presented early in the fall. Seventy-five people were in attendance to hear Doctor Deiss give an illustrated talk on the fringe benefits of geology. This event was followed by the annual Christmas party in the Union Building. Santa was in attendance and a skit was given showing the faculty at work quizzing a student in an oral exam. Future plans include the annual Spring Picnic, beer blast, and initiation.

This year the chapter decided to take to the field of battle in order to promote its name, and geology as a whole, on the campus. In the fall Rho Chapter smashed the chemistry honorary on the gridiron by the score of 27 to 6. During the basketball season the chapter again took to the field and rolled over the tough and aggressive Geophysics Section (Survey) team. Final score was 32 to 16 gals. Not wishing to rest on its laurels, the chapter is sending a team into the field again. This time, S. G. E. will climb the hills of the intramural soft-ball league.

In the field of intellectual endeavor, S. G. E. has sponsored four Journal Clubs, a weekly help session for the beginning classes, and a display in the Union Building, and has assisted in the preparations for the spring field trip.

The officers of the chapter are: Don Buchholz, President; Ron Crane, Vice-President; Bill Moll, Secretary-Treasurer; and Mike Cowen, Corresponding Secretary-Editor.

VITAL STATISTICS

BIRTHS

Mr. and Mrs. Raymond L. Battin - a son, June (?), 1957

Mr. and Mrs. George Bechner - a son, March 12, 1958

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

Mr. and Mrs. David A. Boots - a daughter, Robin Adele, December 20, 1957

Mr. and Mrs. Robert E. Boyer - a son, Robert M., April 21, 1957

Mr. and Mrs. Ronald K. Cameron, Jr. - a daughter, Dorothy Jane, January 28, 1957

Mr. and Mrs. John Cass - a daughter, Lisa, July 4, 1957

Mr. and Mrs. Harold L. Deane - a daughter, Abbe Deane, October 3, 1957

Mr. and Mrs. Donald C. Devening - a son, Scott D., August 2, 1957

Mr. and Mrs. (Joline McVicker) Ferol F. Fish - a son, Ferol F., April 11, 1957

Mr. and Mrs. (Patricia Arkin) Robert H. Gerdson - a son, Jon, November 1957

Mr. and Mrs. Lowell E. Gladish - a son, Richard Scott, October 12, 1957

Mr. and Mrs. Conrad P. Gravenor - a son, Christopher James, October 1, 1957

Mr. and Mrs. Elbert L. Hale - a son, David Lee, July 2, 1957

Mr. and Mrs. G. J. Hennessy - a daughter, Barbara Louise, December 6, 1957

Mr. and Mrs. Donald E. Hyer - a son, April 2, 1957

Mr. and Mrs. Richard H. Johnson - a daughter, Lisa Diane, September 19, 1957

Mr. and Mrs. Frank E. Kottlowski - a daughter, Diana Virginia, November 2, 1957

Mr. and Mrs. Richard K. Leininger - a son, Marshall, May 1957

Mr. and Mrs. Eugene J. Lennart - a daughter, Denise Marie, April 29, 1957

Mr. and Mrs. Carl W. Myers - a son, Robert Ashley, November 28, 1957

Mr. and Mrs. Leonard B. Otte - a son, Michael, November 28, 1957

Mr. and Mrs. Charles F. Passel - a daughter, Martha Louise, November 3, 1956

Mr. and Mrs. R. Jack Pickering - a son, Michael Jackson, May 1, 1957

Mr. and Mrs. Lowell B. Plock - a son, Gerald Robert, February 20, 1958

Mr. and Mrs. Donald G. Roemermann - a daughter, Nancy, May 20, 1957

Mr. and Mrs. Gerald P. Rupert - a daughter, Kathleen Sue, May 13, 1957

Mr. and Mrs. Neil R. Schemehorn - a daughter, Jennifer Lynne, January 31, 1958

Mr. and Mrs. Howard Smith - a son, Howard Patrick, March 15, 1958

Mr. and Mrs. James A. Smith - a daughter, Lisa Ann, April 26, 1957

Mr. and Mrs. C. V. Solbrig - a daughter, December 24, 1957

Mr. and Mrs. Robert G. Stouse - a son, Jeffrey Karl, June 15, 1957

Mr. and Mrs. William Kelly Summers - a son, Daniel Kelly, September 1957

Mr. and Mrs. Ira Dan Taylor - a son, Jordan Neil, April 15, 1957

Mr. and Mrs. Kenneth M. Waters - a son, November 1, 1957

Mr. and Mrs. William J. Wayne - a daughter, Annette Elizabeth, November 30, 1957

DEATHS

Colonzo Chelice Beals - January 25, 1957
 Richard W. Larson - September 9, 1957
 Herman H. Roerk - December 22, 1957

NEWS ITEMS

Editor's Note: Of the 405 cards sent out, 251 were completed and returned and 5 were returned to us by the post office. What's the matter with the rest of you?

Bob Barbour moved from Evansville, Indiana, on February 1, 1958, and is now working in the Bridgeport, Illinois, office of Ohio Oil Company.

George Bechner reports he is now doing geophysical work for Carter Oil Company at Miles City, Montana.

Word comes from Helen Beikman, in Albuquerque, New Mexico, on a six-month assignment with

U. S. G. S., that in April she will transfer to San Francisco to do subsurface geology.

Hugh H. Berry is working as a research chemist on high temperature lubricants for U. S. Naval Avionics Facility in Indianapolis.

John L. Bible is now vice-president of Southern Geophysical Company in Houston, Texas.

Since August 1957 Bruce Bohor has been serving as Associate Research Geologist in well-logging research for Continental Oil Company in Ponca City, Oklahoma. He expects to receive his Ph. D. from the University of Illinois in June.

Dave Boots reports he is doing research in geomagnetics at California Institute of Technology, Pasadena, California.

Bob Boyer has completed his Ph. D. at the University of Michigan and is now teaching at the University of Texas, Austin, Texas.

Steve Bedwell is working as a computer and pilot for Seis-Tech Exploration Company, Wichita, Kansas.

The Dallas Geological and Geophysical Society has published "The Geology and Geophysics of Cooke and Grayson Counties, Texas", of which H. H. Bradfield is editor and principal author.

Last fall Art Brookley joined the staff of International Petroleum (Columbia) Ltd. in Bogota and is working on spores and pollen. He formerly was with Standard of California in Los Angeles. Art visited the department here before leaving for South America.

Frank Johnson, according to Art Brookley, is now Geophysical Supervisor for Richmond Exploration Company (Standard of California overseas subsidiary) in Maracaibo, Venezuela.

By the time this NEWSLETTER hits the mail George Brunton will be a married man. George is mineralogist with the Pure Oil Company Research and Development lab at Crystal Lake, Illinois. At the present time George is concerned with all mineralogy problems but with emphasis on clay mineralogy.

Wayne Bundy completed work for his Ph. D. and joined Dr. Haydn Murray with the Georgia Kaolin Company in Elizabeth, New Jersey.

Don Cameron has transferred to the Development Department of The California Company in Harvey,

Louisiana. He reports that he is feeling fine now after a near-fatal auto accident in Belle Chasse, Louisiana.

Pei-yuan Chen will return in September to his home in Taiwan, China, to work for the Petroleum Company of China. At the present time he is working on an AEC project in mineralogy at Penn State.

Evert Christensen has switched from paleontology to geology under B. Dale Kline, District Geologist - Fresno District, Standard of California.

Army service is over for John Cleveland and he is now pursuing an M. S. degree in economic geology at the University of Wisconsin.

Horace Coryell seems to be keeping busy working as a petroleum geologist and paleontologist for corporations, teaching in the new geology quarters at the University of Dayton, and running his farm.

Rolling stones -- The Daniel R. T. Davis' move about once a month with the General Geophysical Company.

Although he is not yet an alumnus, many of you will remember John Downen, who is now back to complete work for his degree. During the intervening years, John did geophysical work for Cities Service Company, Bartlesville, Oklahoma, and spent some time in Italian Somalia training European employees in seismic work, surveying, drilling, etc. for Rogers Geophysical Company, whose home office is in Houston, Texas.

Del Elston reports he is now a technologist in the Metallurgical Department of National Lead Company, Cincinnati, doing research on ceramics.

According to Wayne Erickson, Gulf Oil Corporation, Midland, Texas, is concentrating on large scale secondary recovery projects.

Dallas Fiandt, Dick Freed, and Earle Newcomer are all working in the same office of The Texas Company in New Orleans.

A move from geology to law has been made by Harvey Fierstein, who reports he is now employed by Gorden-Weinkerg and Capalbo, of Los Angeles.

Doctor Galloway, comfortably situated in his office in the new Law Building, is busily adding to his list of publications. In the past year he has turned out: A review of a Russian paper on stromatoporoids; a paper on Devonian stromatoporoids

(with Joe St. Jean); a paper on structure and classification of stromatoporoidea; and a G. S. A. Memoir on pentremites (with Harold Kaska). Currently he is working on three papers on Ordovician, Silurian, and Devonian stromatoporoidea.

After two years in the army at Fort Knox, Lowell Gladish is now working with General Geophysical Company in Texas.

Frank C. Greene will retire from the Missouri Geological Survey on June 1 and expects to visit the campus here for the reunion of the class of '08.

It's school days again for Gordon Grender at Penn State.

Elbert Hale is now Lead Seismologist on special seismic problems for Standard Oil Company in California.

Jack Harrison has completed work for his Ph. D. and has joined the Indiana Geological Survey as Clay Mineralogist.

Southern feminine charms were too much for George Herr to resist. Last June he became a married man and is now the owner of a new home in Columbia, Tennessee.

Robert Hite is now working in the Geological Economic Analysis Section, Phillips Petroleum Company, Bartlesville, Oklahoma.

Albert Hoadley reports he recently completed 32 years in producing Indiana limestone.

Another geologist gone on his own! Perry Holloway resigned on January 1 from McCord Oil Company, Shreveport, Louisiana, and opened his own consulting office.

The Olin Holts bought a new home, 219 Ridgeview Drive, and the Andy Hrehas built a new home on Pleasant Ridge Road, both in Bloomington.

Kenny Huff and Donna Zimmerschied were married March 25, 1957. Ken is working for Core Lab. in Denver.

According to word from John Hughes, Sohio Petroleum Company disbanded the Billings District Office so he is going into the Division Office to handle North Dakota acreage for Sohio. He also says he still hasn't shot an elk this winter.

E. P. Hunt retired from the faculty of Stanford University and now operates a summer gift shop at Tahoe City. March 1 marked the beginning of a

business-pleasure trip to Guatemala, Peru, Bolivia, and Ecuador, on which he also plans to produce motion pictures of Indians of the Andes to add to his library of southwest Indian life, catalogued in the Library of Congress.

Last June, after a year with California Exploration Company in Palo Alto, California, Harold Kaska went to Guatemala as Lead Stratigrapher-Paleontologist. He recently made a trip to Havana and one into the Peten with Dean Pennington, and is planning one to Maracaibo in May.

Mr. and Mrs. (Caroline Hemingway) F. H. Kierstead enjoyed a two-week cruise to the West Indies and Venezuela last spring.

Here's a man who gets around -- Canada, Mexico, Bahama Islands, etc. But Ad King says he's been spending a great portion of his time exploring for limerock in southern Florida.

Jim Koenig has two more years to serve as a Navy weather-guesser.

"Canada is a very nice place when it isn't cold", according to Harry Kugler, who is now working in Calgary.

Late report -- Phillip J. Lane and Janice Hatcher were married June 1, 1956.

On May 1, F. H. Latimer will become Manager of new Eastern Production Division of Sun Oil Company, with headquarters in Evansville -- the new division to cover the area now included in Michigan Division, Central Division, and the Appalachian Area.

World traveler. Glen Lee returned last September from a two-year tour around the world, including a camera safari in central Africa and a visit to the thermal regions of New Zealand.

Harlan Logan is now Vice-President for Research and Development, General Foods Corporation, White Plains, New York.

Another V. P. -- Elmer Lucas has been elected Vice-President of the Oklahoma Academy of Science for 1958. The Presidency follows in 1959.

Two school buddies, Paul Raymond and Jim Mahorney, have gotten together again, in Midland, Texas.

Burton J. Malott retired July 1, 1957, after 43 years in the teaching profession.

Al Miesch, currently with the U. S. G. S. in Grand Junction, Colorado, advises that he will be transferred to their Denver office in June. He plans to return to Northwestern University in September.

June 15, 1957, George Moore was married to Terry M. Torok in South Bend, Indiana.

John I. Moore is currently serving as President of the San Angelo Geological Society, San Angelo, Texas. He has also made "The International Yearbook" and "Statesmen's Who's Who".

On January 28, 1958, Carl Myers received his navigator wings at Ellington Air Force Base.

Note to George Nevers: Don't be so reticent. We thought you could always come up with some interesting information or comment.

By the time this NEWSLETTER is printed, another handsome batchelor won't be any more. Bob Newman plans to be married April 6.

Raymond L. Parker has returned from Chile and is doing geologic mapping and studying mineral deposits in northeastern Washington for the U. S. G. S.

Charles F. Passel is now Division Exploration Manager for Ambassador Oil Company, Fort Worth, Texas.

If his National Science Foundation fellowship application is approved Jack Pickering plans to work on his Ph. D. at Stanford University.

Last September Marty Prinz visited the department on his way from California, where he worked during the summer, to New York where he is currently enrolled at Columbia. He will be working on his Ph. D. problem in the Beartooth Mountains, Montana, this summer.

Paul D. Proctor has changed positions -- from Supervisor of Raw Materials Exploration, U. S. Steel Company, to Chairman of Geology Department, Missouri School of Mines.

Maurice McClain and Frank Rago are now sharing a Texas Company office in Sterling, Colorado.

Jack Riddell is now geologist for General Crude Oil Company, Houston, Texas.

Bill Dixon has gone to work for Soil Testing Services of Chicago.

Larry and Buddy (Rey) Rooney plan to return to the States in late August after two years in Tripoli.

John K. Rose hopes to be on campus in June for the reunion of the class of '28.

Jerry Rupert is currently receiving field training with a Texas Company seismic crew at Ardmore, Oklahoma. After June 1 he will report back to the Tulsa office.

Joe St. Jean has moved from Trinity College, Hartford, Connecticut to the University of North Carolina, Chapel Hill, where he is Assistant Professor of Micropaleontology.

Dick Schweers has been placed in charge of regional geological exploration program, particularly in the Four Corners area, for The Texas Company.

Here's someone we haven't heard from since he graduated in 1927 so we'll bring his record up to date. Lilburn H. Seamon joined the U. S. Weather Bureau in Dayton, Ohio, in 1938 and was transferred to the Washington, D. C. office in 1940, where he still is. He was married in 1944 and has two children, a daughter, 11 years old, and a boy, 4. He says he looks forward to receiving each issue of the NEWSLETTER in hopes of a bit of news of his school day colleagues. (Your fine informative letter is a model that other alumni should copy. Please don't wait another 30 years to let us hear from you again. Editor)

"Still I'm single", Ernesto Sirvas reports.

Don Six has transferred to the Los Angeles Division office of The Texas Company and is currently working offshore.

Brice Smith is now Head of the Mathematics and Science Department at Monmouth High School, Decatur, Indiana.

John M. Smith left the Indiana Geological Survey last summer to work for Georgia Kaolin Company. He is located at Dry Branch, Georgia.

Willis Smith is spending a few months of temporary duty with the U. S. A. F. in Germany.

Fishing is better in Guatamala than in Venezuela, according to Walt Spangler. Says he has one gravity and one seismic party. Esso Standard has completed air-mag-shoran survey and photogeology, and plans to drill early in 1959.

Jim Stanley has left Carter Oil Company and is now an independent geologist in Vernal, Utah.

Paris Stockdale is still working on the Chattanooga shale as a source of uranium.

Jack Stover is serving as a jet pilot instructor in Germany.

The Robert Subletts moved into their new home in Evansville on April 26, 1957.

Albert Swanson is now Material Accountant for The Pullman Company.

Dan Taylor says he is the only "foreigner" in the Amarillo area and will be glad to have visitors.

The John Taylors are now living in their new home in Cincinnati.

Beginning in June Ross Taylor will fill the position of Senior Lecturer in Geochemistry at the University of Capetown, South Africa. He says he looks forward to seeing some African geology.

Gene Taylor reports that he, Ken Waters, and Jake Fiantt had lunch in November in the Old French Quarter, New Orleans, with George Erickson who had just come in from South America on vacation.

Steve Theodosis is temporarily doing reconnaissance field work at Tucumcari, New Mexico. Says during the past couple of years he has visited Dean Clark in Albuquerque, Wes Pierce in Tucson, and frequently seen Clay Warren in Denver.

George Erickson is head of the new Geological Survey of Chile, at Santiago, and gives courses in geology at the University of Chile. He and his wife visited in Bloomington in January.

Harriett Maitlan Thomas advises that, after her husband's six months of training with RAND Corp. at Bangor, Maine, they will return to Madison, Wisconsin, to help install SAGE at Truax Field.

Henry O. Thomas and Carolyn Sledd were married December 23, 1957, in Alexandria, Virginia.

Howard Tipsword is paleontologist and stratigrapher in the Gulf Coast province for Magnolia Petroleum Company.

On February 17, Keith Treadway started work with Pasotex Petroleum Company in Oklahoma City.

Don Triplehorn was married September 14 in Clarksburg, West Virginia. Don served his hitch in the Air Force as a Second Lieutenant, finishing in

March, and in the fall plans to go to the University of Illinois.

Dan Tudor is now working in gravity analysis for Standard Oil of Texas, at Houston.

After 51 months of flying for the U. S. A. F., Kay Turner is now Project Administrator of a Navy missile program for Minneapolis-Honeywell, at Minneapolis, Minnesota.

Kenny Vance transferred to the Geophysics Division, The California Company, in July. He is Client Representative on various contract seismic crews and on one such crew (Continental Geophysical Company) Fred Myers was working.

Robert Voss reports he is half way through L. U. Law School, Indianapolis, which he attends nights.

Clay Warren has been promoted to Lead Development Geologist for Montana, North Dakota, and South Dakota with The California Company.

Ken Waters was promoted to Assistant to the Chief Development Geologist, The California Company, in New Orleans.

Last August, Bill Wayne was a member of an expedition to Southampton Island (courtesy of Mr. John Buehler, Indiana Gear Works). He says the Silurian coral and stromatoporoid bioherms looked so much like those in Wabash County, Indiana, that he felt right at home. The lack of barb-wire fences to climb was the most pleasant point of the trip.

George Winston is conducting stratigraphic investigations for Carter Oil Company, Billings, Montana.

On January 1, Paul Yundt left F. E. Moran Oil Company and struck out on his own. He reports "so far we are still eating".

Raymond Battin finds his work in subsurface geology in the Miles City, Montana, area very interesting.

Col. C. W. Bicking is now flying jet fighters at sub-sonic and super-sonic speeds.

On September 14, Richard L. Bowen and Yvonne Bowman were married in Brisbane, Australia, and took a three-month tour around the world. He has spent three years at the University of Melbourne on a Fulbright Scholarship, and his Ph.D. thesis on Late Paleozoic glacial deposits in Eastern Australia is about completed.

James Bush has now finished his Ph. D. in geology at the University of Washington.

Capt. John E. Davenport, Plans and Program Officer, U. S. A. F., reports that he and his family enjoy the climate on Guam very much and plan to visit Japan and the Philippines before returning to the States.

Henry M. DuBois has spent the past year travelling over the United States observing and photographing birds and flowers.

In addition to his duties as a geologist in the Petroleum Section of the Indiana Geological Survey, Dee Rarick is now spending part of his time in the newly established Office of Educational Services.

Don Roermernann is now working for a marine construction company in Mt. Vernon, New York.

Abdullah Sayyab received his Ph. D. degree at the University of Iowa last year and is now Director General of Oil, Baghdad, Iraq.

Roger L. Battin is now Assistant Professor of Paleontology at the University of Wisconsin, Madison, Wisconsin.

Bert Renzetti completed work on his doctorate in the spring and has gone to work in Mexico with Kaiser Aluminum Company. His wife, Phyllis, has finished all but the final typing of her dissertation and has joined him.

Al Rudman has joined the staff of the Geophysics Section of the Indiana Geological Survey and is also working toward his Ph. D.

Last summer John McCormick joined the staff of International Petroleum Company in Bogota, Colombia, S. A.

During Christmas vacation from his duties with Sohio in Houston, Texas, Carl Lockhart paid the department a visit.

Jack Conley visited the department while home on Christmas leave from service with the Air Force at West Palm Beach, Florida.

Dr. and Mrs. Thornbury seem to be having a wonderful time in California. He reports a couple of visits with Dick Erd and one with Dave Boots at Cal Tech.

Dr. Donald E. Hattin returned to our faculty in July after a term with the U. S. A. F. at Mt. Washington,

New Hampshire, and a short visit in Colorado. He spent the last six weeks of the field season working on the Ordovician section in southeastern Indiana for the Indiana Geological Survey. His "Depositional Environment of the Wreford Megacyclothem (Lower Permian) of Kansas" has been published as Bulletin No. 124 of the Kansas Geological Survey during the past year.

In May, Doctor Vitaliano was awarded a National Science Foundation Senior Research Grant to finance field work in the Tonopah region, Nevada, for three field seasons. His investigation concerns the stratigraphic relationships of Tertiary volcanic rocks, and the summer of 1957 was spent in mapping the Tertiary volcanic geology of the San Antonio Mountains, Nye County, Nevada. He presented a paper on the "Tertiary Geology of the Ione Quadrangle" at the G. S. A. meetings in Atlantic City. He has accepted an invitation to join the Panel of Lecturers of the local chapter of Sigma Xi and his topic will be "Volcanos and Volcanic Rocks".

The Pure Oil Company has made a grant of \$1,000.00 to Indiana University to support research in mineralogy under Dr. Carl W. Beck. The project involved is the study of phase changes at elevated temperatures by the X-ray oscillating technique. Doctor Beck will work in close cooperation with Dr. George D. Brunton (Ph. D., 1957), mineralogist with the Pure Oil Company laboratory at Crystal Lake, Illinois.

Robert L. Kidd was awarded a distinguished alumnus citation during the 1957 commencement period. A few of us had the opportunity of renewing our acquaintance with Bob while he was in Bloomington.

A Christmas card from the Bob Sargents indicate that Bob is still working for the American Metal Company at New Rochelle, New York, and is enjoying his work.

LOST SOULS

Our letters to the following five alumni were returned unclaimed:

Thomas M. Hendrickson

Jee-Hing Wo

Mrs. A. P. McMann (Olena Fern Peck)

Norbert Parker

Mrs. Harold D. Rose (Mabel Irene
Dietrich)

If anyone can give us a lead on them, please do so.

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The following news items and changes of address were received after copy for the NEWSLETTER had gone to press.

Noel R. Bailey, M. D., 1516 Alta Drive, Fort Worth, Texas (Business address: 1506 West Terrell Ave., Fort Worth), has been engaged in the private practice of obstetrics and gynecology since World War II.

Robert C. Baxter is working with Core Laboratories, Inc., 706 Patterson Building, Denver, Colorado.

Wayne E. Fowler has transferred from the Mattoon, Illinois, office of The California Company to their Natchez, Mississippi, office. He also reports the birth of a son, Scott Raymond, on September 15, 1957.

Word has been received of the death on December 22, 1956, of Jesse Wendell George.

Mrs. Ruth Rohrer Hays, 6837 South Tamiami Trail, Sarasota, Florida, reports she is now working as a technician in the Central Sterile Supply of the Sarasota hospital.

Thomas D. Jones, 810 Vernal Lane, Shreveport, Louisiana, says he is strictly an 8:00-to-5:00 office man now with Magnolia Petroleum Company.

Raymond Carl Mullen. Home address: 205 Longview Drive, Richmond, Virginia.
Business address: Capitol Insulation Company,
1115 Hull Street, Richmond, Virginia.

David D. Prentiss, 813 Davis Street, Elmira, New York (Business address: Arctic Section, Cambridge Research Center, 11 Leon Street, Boston 15, Mass.), was released from active duty with the Navy in February and began work as a geophysicist with the Arctic Section of the Air Force Cambridge Research Center. On May 20 he reports on the northern tip of Ellesmere Island to do seismic refraction and reflection work on the shelf ice, as well as electrical, magnetic, and acoustical measurements. He plans to enter Graduate School at Columbia in September.

Jack R. Warren, 217 Chestnut Street, Evansville, Indiana (Business address: c/o Petroleo Brasileiro S. A. Petrobras, Equipe Sismica Maritima ES-10, Caixa Postal 102, Aracaju, Sergipe, Brazil) writes that he is employed as a seismic interpreter on a marine seismograph crew operating along the east coast of Brazil. Recent bases of operation have been in Maceio, Caravelas, Ituberá, and Aracaju. He says working conditions are about 100 percent better than what you would expect -- if you enjoy the heat.