

**INDIANA UNIVERSITY**  
**DEPARTMENT OF GEOLOGY**

**GEOLOGY NEWS LETTER NO. 1**

**BLOOMINGTON, INDIANA**

**JUNE 1952**

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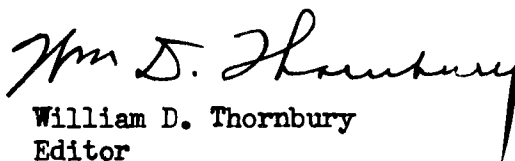
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## SALUTATORY

Greetings, geo-alumni of Indiana University, wherever you may be. The first Geology News Letter makes its bow. It is sent to you with the hope that you will find in it enough of interest that you will want to pay the geology department a visit and see the changes which have taken place since you left. Those of you who graduated prior to 1945 would hardly recognize the scenes of your academic endeavors.

This News Letter is slanted more toward the older geo-alumni than the recent ones, and in it we are attempting to bring you somewhat up-to-date on the changes which have transpired since you left. Certain sections included in this number, such as the list of alumni addresses, will not be repeated in subsequent issues. The value of later issues will to a large degree depend upon your cooperation. We can tell you about what is going on here but we can not send you alumni news unless you send it in to us. Professor Esarey has been given permanent charge of the section on alumni news, so news items sent either to him, or to the editor, will find their way into the News Letter.

The present issue is in a sense a trial balloon and we will welcome any suggestions which you may offer to help us increase its value to you.

  
William D. Thornbury  
Editor

GEOLOGY STAFF

C. J. Vitaliano

Senior Teaching Staff

In 1945, in conjunction with a planned expansion of the Department of Geology, the Trustees of Indiana University brought to the campus, from Montana State University, Professor Charles F. Deiss. Dr. Deiss is both Chairman of the Department of Geology and State Geologist. Professor Deiss, an Ohioan, obtained his A.B. degree from Miami University in 1925 and his Ph.D. in 1928 at the University of Michigan. His native ability, teaching experience, and his years of organizing expeditions into the Rocky Mountains in connection with research on Cambrian stratigraphy, and structural geology, coupled with his directorship of the dolomite program of the U.S. Geological Survey, fitted him admirably for his new assignment, namely the expansion of the Geology Department and the development of the Indiana Geological Survey. Both the Department of Geology and the Geological Survey have expanded in housing, equipment, and personnel and a co-ordinated program of teaching and research has been developed resulting in both agencies working together almost as a single unit.

Three members of the original teaching staff are Professors Galloway, Esarey, and Thornbury. Professor Galloway, A.B. '09, A.M. '11, Ph.D. '13, is the senior member of the staff. He started teaching at Indiana University in 1909 but left in 1916 to take a professorship at Columbia University. In 1931 he returned to Indiana University. Except for a short furlough during the post-war period when he organized and headed courses in geology for the G.I. schools in Biarritz, France and Frankfurt, Germany, he has been teaching at Indiana continuously. His specialty is paleontology and micropaleontology, and in the latter he is probably the outstanding world authority.

In addition to having been elected honorary member of the Societe Geologique de France, Professor Galloway has been president of the Society of Economic Paleontologists, vice-president of the Paleontology Society, and is now president of the Indiana chapter of Phi Beta Kappa.

R. E. Esarey, Associate Professor, A.B. '22, A.M. '23, is a specialist in Petroleum Geology and is well known in oil circles in the Interior Basin. He is equally as well at home in many other oil regions. He has been associated with the teaching staff at Indiana since 1923, except for a year of advanced work and teaching at the University of Chicago. In addition to his teaching duties, he was State Geologist of Indiana for nine years, from 1936-1945, and until recently was chief of the Petroleum Section in the Division of Geology.

W.D. Thornbury, Associate Professor, A.B. '25, A.M. Colorado '28, Ph.D. '36, is the geomorphologist in the department. His teaching experience includes a sojourn at the University of Colorado. He returned to the staff at Indiana in 1928 and since that time has taught geomorphology, physiography, and glacial geology. His research interest was and continues to be glacial geology, and at present he and his students are busily engaged in determining the thickness and distribution of glacial drift in Indiana and its relationship to groundwater. In this latter connection, he is in charge of the Glacial Section of the Geological Survey.

Professors Mason and Vitaliano were the earliest additions to the expanding staff in the department. Brian H. Mason, Associate Professor, B.Sc., '37; M. Sc. '38, Univ. of New Zealand; Ph.D. '43, Stockholm, joined the staff at Indiana in 1947 to teach mineralogy, optical crystallography, and geochemistry. He is a New Zealander by birth. He received the Sir Julius Von Haast prize in geology in 1938 and was awarded a University of New Zealand Travelling scholarship and he was studying in Oslo, Norway on this scholarship at the time of the invasion of Norway in World War II. He made his way to Sweden where he continued his studies at the University of Stockholm. He later went to England and then returned to New Zealand in 1944 to become senior lecturer at the University of New Zealand.

Charles J. Vitaliano, Associate Professor, B.S., C.C. N.Y. '36; A.M., Columbia '38; Ph.D. '44, came to the staff at Indiana from the U.S. Geological Survey where he spent the war years doing research on magnesium mineralization. His earliest teaching assignment was at Columbia University, 1938-1940, where he taught courses in mineralogy and gems and precious stones. In addition, he was the holder of the James Furman Kemp Fellowship in geology for 1939. From Columbia he went to Rutgers University, 1940-42, where he taught ceramic petrography, glass technology, refractories and silicate chemistry. His original assignment at Indiana University included courses in physical geology, field geology, and the summer field course in the west. Since 1950, however, he has been Associate Professor of Petrology.

John B. Patton, Assistant Professor, A.B. '38, A.M. '40, has been with the staff since 1948. In addition to his professional duties, Prof. Patton is Assistant State Geologist and is chief of the Industrial Minerals Section of the Indiana Division of Geology. His research work has been concentrated on crushed limestone, his specialty, and on sand and gravel. By far the most important of Prof. Patton's background is in the oil industry where he spent nine years between 1938 and 1947 as a field man for Magnolia Petroleum Company, a subsidiary of Standard Oil Company

J. W. Mead, Assistant Professor, A.B. Mass. Inst. Tech. '40, Ph.D. '49, is in charge of Geophysics and came to Indiana University in the fall of 1949. He has done considerable consulting work in the western United States, and during World War II he was project supervisor and senior engineer in the Division of War Research at Columbia University.

R. E. Deane, A.B. P.Sc. '43, Univ. of Brit. Col.; Ph.D. '49, U. of Toronto, also joined the staff of the Geology Department in 1949. He is in charge of Structural and Historical Geology and has taught for two years at the Summer Geologic field station in Montana. Before coming to Indiana, Prof. Deane served as navigation instructor in the Royal Canadian Air Force, 1943 to 1945, was a lecturer in geology at the University of Toronto, and Associate Geologist on the Geological Survey of Canada.

In 1950, Wayne R. Lowell, Paul D. Proctor, and Mr. T.G. Perry, were added to the staff. Wayne R. Lowell, Associate Professor, B.S. '36, Washington State College; S.M. '39 U. of Chicago; Ph.D. '42, came to Indiana from Montana State University where he was Chairman of the Department of Geology from 1947-1950. In addition to his teaching background he has been Assistant State Geologist for the Oregon State Department of Geology and Mineral Industries. His summers for the years 1944-1950 were spent investigating phosphate deposits for the U.S. Geological Survey in Montana, Idaho and Wyoming. He has become an expert in this field and is now a consultant for a large company interested in the exploration of phosphate in the states mentioned above. Prof. Lowell is in charge of physical geology and field geology and Director of Indiana University Geologic Field Station at Jefferson Island, Montana.

Paul D. Proctor, Associate Professor of Economic Geology, B.A. '42 Univ. of Utah; M.A. '43 Cornell University, Ph.D. Indiana Univ. '49, Shell Oil Fellowship, came to Indiana in 1950 from Brigham Young University, Utah where he was an Assistant Professor. He has worked as an Assistant Geologist for a mining company and was a full-time member of the U.S. Geological Survey from 1944-1946. In addition to his teaching experience at Brigham Young University, Prof. Proctor was a teaching assistant at the University of Utah and instructor at Indiana University. His summer field seasons are spent in Utah where at present he is chief of a project for the U.S. Geological Survey.

Mr. T. G. Perry received his Ph.D. in 1951 from the University of Toronto, where he had returned to complete his education after having spent a large part of the time between 1940-1945 overseas for the Royal Canadian Air Force. Mr. Perry teaches courses in Stratigraphy and Paleontology. His summer field seasons since his return to academic work have been spent in northern Ontario, the Foothills of Alberta, Gaspe Peninsula, and in Indiana. In the latter he has been engaged in a study of the Chester formation in southern Indiana.

The youngest member of the teaching staff is Hayden H. Murray, Assistant Professor, B.S. '48, U. of Ill.; M.S. '50; Ph.D., 1951, who in addition to teaching the petrology of argillaceous sediments is clay technologist for the Division of Geology. Prof. Murray came to Indiana University from the University of Illinois where he assisted for four years and later held the Illinois Clay Product Fellowship for two years under the aegis of Prof. R. E. Grim. He has also done field work on the metamorphic rocks of New Hampshire and was a 1st Lt. with the U.S. Army Engineers from 1943 to 1946.

#### Junior Teaching Staff

The task of teaching and doing research is lightened considerably by the junior teaching staff and by the quiet, efficient, and conscientious group constituting the non-academic staff. The junior teaching staff is made up of teaching assistants who are graduate students in various stages of completing work for either a M.A. or Ph.D. degree. Their background varies since they come from many other schools besides Indiana University. It is this slightly different outlook in geology which each man brings to the department that gives a refreshing flavor to the academic atmosphere at Indiana University. The teaching assistants for 1951-2 and a part of their background are:

E. V. Christiansen, B.S. Mich. State College '51, assistant in petrography, is at present engaged in perfecting the technique of grinding good thin sections. He will undoubtedly find this knowledge very handy in assisting in the petrography laboratory for the spring semester.

Dean S. Clark, B.A. Montana State U. '50, assistant in Geology G100, brings to Indiana a goodly amount of experience for a member of the junior teaching staff. After receiving his degree with honors in 1950 from Montana State University where he was a teaching assistant in general and historical geology, he went to work as geologist, engineer and mine foreman for the San Francisco Chemical Company on a phosphate property in southwestern Wyoming. In 1951 after a brief tour of duty with the Victor Chemical Company, he returned to his studies and is working toward the M. A. degree.

Wayne E. Erickson, A.B. '50 Indiana Univ., is assistant in Petroleum Geology. He is working toward his M.A. degree, and at present is president of Sigma Gamma Epsilon in addition to his teaching.

Wayne E. Fowler, B.A. Earlham College '51, is also a youngster with a considerable degree of professional experience. At present he is assisting in the geomorphology and structural geology. He assisted in the Department of Geology at Earlham College for one and a half years and was a soil scientist for the U.S. Dept. of Agriculture in Hand County,

South Dakota during the summer of 1951. He is working toward the M.A. degree in glacial geology.

Elbert Hale, B.A. Earlham College '51, assistant in geophysics, brings to Indiana a background different from that of most geology students. As an undergraduate he majored in physics and mathematics and served as an assistant for three years, one in general mathematics and one in physics and one in astronomy. He is planning to obtain his M.A. degree in geophysics.

Harold Kaska, A.B. '50 N.Y.U., is assistant in paleontology. He expects to obtain the M.A. degree in Paleontology and Stratigraphy. At present, in addition to his other duties, he is working on his thesis which will be a monograph on the Pentremites done in collaboration with Professor Galloway.

John R. Pickering, A.B. Indiana Univ. '51, has been at Indiana University since 1947. He brings to the department a wide variety of experience. He has been a field assistant for two summers, was teaching assistant in elementary field geology and is now assisting in the Mineralogy and Petrology laboratory. Upon his graduation, he was elected to Phi Beta Kappa. He is now working toward his M.A. degree and is doing a thesis on the physical constituents of some Indiana coals.

Howard W. Pierce, A.B. Mont. State Univ. '49, assistant in Economic Geology, came to Indiana in the fall of 1950. He has worked summers with the U.S. Geological Survey. During the summer of 1951, he was assistant to Prof. Lowell at the Indiana University Geologic Field Station. "Wes" is now working toward his M.A. and expects to do a thesis on Phosphate mineralization of the Melrose District, Montana.

Frank T. Rago, Jr., B.S. '50, Iowa State College, assists in the Physical Geology laboratory. After leaving high school, he went into the U.S. Army and upon his discharge began his college studies at University of Mass. where he remained until 1947 when he transferred to Iowa State. He is at present working toward the M.A. degree and intends to write a thesis on the subsurface lithology and structure of the Brassfield formation in southeastern Indiana.

Bert L. Renzetti, B.A. Columbia University '49, is assistant in Mineralogy. He started work immediately after receiving his degree with the Bureau of Soil Mechanics, N.Y. State Dept. of Public Works. He came to Indiana University in 1950 and at present is working toward his M.A. degree in Economic Geology.

#### Non-Academic Staff

In the progress of staff research, a large amount of data and illustrative material is needed which would cause considerable delay were it not



for the technical staff. All chemical analyses are made by Maynard E. Collier, B.S. ChE. Ohio State U. '38 who came to Indiana University in 1949 to take charge of the chemistry laboratory of the Geology Department. Mr. Collier's experience, covering graduate studies at Ohio State University, chemist for the Ohio State Highway Testing Laboratory (1939-1943) and the research laboratories of Armco Steel Corp., have made him a valuable asset to the department.

The production and finishing of the illustrative material to accompany lectures, reports, and publications fall to two men who are outstanding in their respective fields. George R. Ringer, photographer, was photographer by hobby back in high school. In 1942 he entered the U.S. Army as a photographer in the Air Force. Honorably discharged in 1945 after having spent almost three years over seas, he became photographer for Outdoor Indiana, the official publication of the Department of Conservation. In October, 1947, he left this position to take up his present post with the Department of Geology.

Coupled with photography is the work of the illustration department headed by William H. Moran. After finishing high school, Mr. Moran attended Purdue University extension for a time and then entered the U.S. Army. He began his military career as a topographical draftsman with the Army Map Service and later became group supervisor. In 1945, after leaving the Army, he came to Indiana University and undertook to build up a staff of draftsmen which now consists of four members in addition to himself. The illustrative material which comes out of his department is an excellent tribute to Mr. Moran's ability. In addition to his drafting, Mr. Moran assists in Geologic illustrations, a drafting course offered to the students in geology.

#### 1951 SUMMER ACTIVITIES OF FACULTY

##### Wayne Lowell

John Patton, R. E. Deane, and Wayne Lowell taught the eight week field course at the Indiana University Geologic Field Station at Jefferson Island, Montana. Forty-five students were enrolled. Following the field course, John Patton returned to Bloomington and supervised the stratigraphic mapping work of the Indiana Geological Survey. Deane remained at camp to study the Tertiary deposits around the camp area and Lowell supervised 14 students in doing exploration work on phosphate rock deposits in southwestern Montana.

Thornbury spent the summer at Pomona College, Claremont, California, writing the first draft of his Principles of Geomorphology. On the return trip to Bloomington, the Thornburys traveled through the Northern Rockies as far north as the Columbia Ice Fields. Tom Perry mapped the Lower-Middle

and Middle-Upper boundaries of the Chester series for the Geological Survey of Indiana.

Paul Proctor and C. J. Vitaliano worked for the U. S. Geological Survey. Proctor investigated the fringe zone minerals and alteration at Tintic, Utah. Vitaliano worked on the magnesite mineralization at Gabbs, Nevada and geology and structure of the Paradise Peak Quadrangle, Nye County, Nevada. The Vitalianos traveled in Mexico, Colorado, California and Utah.

J. J. Galloway continued his study of the stratigraphy and paleontology of the Harrodsburg limestone and worked on a monograph on the genus *Pentremites* (with Harold V. Kaska). He was stricken with a coronary occlusion on July 20 and was out of commission for four months.

Brian Mason attended the Second International Congress of Crystallography held in Stockholm, Sweden, and gave a paper entitled "The Crystal Structures of the Antimony Oxide Minerals". After the Congress he went on the Mineralogical excursion through Sweden to north Norway. Following the excursion he and Professor Frondel of Harvard University collected from a number of classic mineral localities in Central Sweden. He also traveled through Norway, Denmark, Germany, Austria, Switzerland, Northern Italy, France and England visiting mineral localities, universities and museums.

Ralph Esarey spent the summer working for the Geological Survey upon the problem of the St. Louis limestone. Most of the field work was in Harrison and Washington counties. Ed Hickam was his assistant. Dr. Deiss taught for part of the summer at the field camp in Montana. The remainder of the summer's time was devoted to his duties as State Geologist, Secretary-treasurer of the Association of American State Geologists and Chairman of the A.I.M.E. committee on dimension stone and slate. Haydn Murray headed a Survey party which studied the clay deposits of Clay and Parke counties.

#### 1951-1952 JOURNAL CLUB PROGRAMS

P. D. Proctor

First Semester

October 1, 1951. Dr. Walter Voskuil, Mineral Economist, Illinois Geological Survey, "Minerals on the Russian Border and What They Mean"

October 8, 1951, Prof. Wm. D. Thornbury, "Geology of the Los Angeles Basin"

- October 15, 1951. Prof. Haydn Murray, "Modern Clay Mineralogy"
- October 22, 1951. Sigma Gamma Epsilon program, Lane Wells representative, "Gamma Ray Logging"
- October 29, 1951. Prof. Ralph Esarey, "Pennsylvanian Coal Resources in the Cumberland Plateau"
- November 5, 1951. Richard Leininger, Geological Survey, "Application of Spectrochemical Analysis to Geology"
- November 12, 1951. Sigma Gamma Epsilon Program.
- November 19, 1951. Dr. G.W. Tyrell, England, "Geochemistry of Sediments"
- November 26, 1951. Mrs. Gladys Babson Hannaford, "Diamonds"
- December 3, 1951. Dr. Kenneth Caster, University of Cincinnati, "A Geologist Looks at Brazil"
- December 10, 1951. Prof. Brian Mason, "A Mineralogist in Sweden"
- December 17, 1951. Sigma Gamma Epsilon program, Charles Wier, Geological Survey, "Pennsylvanian Sedimentation in Pike County, Indiana"
- January 7, 1952. Maurice Biggs, Geological Survey, "A Seismic Approach to Indiana Geology"
- January 14, 1952. A.M. Thesis reports, Dan Taylor, "Pennsylvanian Stratigraphy of Davis County, Indiana" and Robert Sargent, "Geology of the New Bullion Mine Area, Tintic, Utah"
- January 21, 1952. A.M. Thesis reports, Wesley Peirce, "Phosphate Possibilities of Melrose Area, Montana" and John Cass, "Geology of Northern Part of Highland Mountains, Montana"

Second Semester

- February 11, 1952. A.M. Theses reports, Harold Kasaka, "The Genus Pentrimites and its Species" and Dale Kline, "Structure and Stratigraphy of Chester Series, Knox County, Indiana"
- February 18, 1952. Sigma Epsilon program, Debate on "The validity of continental drift"
- February 25, 1952. Ernst Fleischman, "A Geologist in Austria"
- March 3, 1952. Prof. G.B. Clark, University of Illinois, "Geology and Engineering"

- March 10, 1952. Dr. Harlow Shapley, Harvard University, "Astronomical Dating of the Earth's Crust"
- March 17, 1952. Dr. Donald M. Davidson, Exploration Geologists, E. J. Longyears Company, "Exploration Geology"
- March 24, 1952. Prof. J. B. Patton, "Geology and Economic Utilization of Indiana Limestones"
- March 31, 1952. Dr. R. P. Goldthwait, Ohio State University, "Baffinland Expedition"
- April 7, 1952. Sigma Gamma Epsilon program, Jack Pickering, "Physical Characteristics of Some Indiana Coals."
- April 14, 1952. Spring Vacation.
- April 21, 1952. Ph. D. thesis report, Conrad Gravenor, "Pleistocene Geology of the Peterborough-Rice Lake District, Ontario, Canada"
- April 28, 1952. Sigma Gamma Epsilon program.
- May 5, 1952. Ph.D. thesis report, Eric Henderson, "Pleistocene Geology of the Peace River District, Canada"
- May 12, 1952. Ph.D. thesis report, Steven Theodosus, "Geology of the Melrose Area, Montana"
- May 19, 1952. A.M. theses reports, Denny Lucas, "Gravity and Magnetic Survey of Kentland Dome, Indiana" and Gordon Grender.
- May 26, 1952. A.M. theses reports, Warren Heisterkamp, "Subsurface Study of the Borden Formation" and Victor Olsen, "Geology of the Smedley Quadrangle, Washington County, Indiana"

#### STATE GEOLOGICAL SURVEY

John B. Patton

In 1919, the Indiana state legislature created the Department of Conservation. One of the branches of the new department was the Division of Geology, which replaced the State Department of Geology and Natural Resources. Since that time a faculty member at Indiana University has been State Geologist. For many years the Division of Geology maintained an office in Indianapolis. Beginning in 1937, oil activity in the Eastern Interior Basin increased rapidly and a growing proportion of the time of the division went into regulatory work in the oil industry. In 1947, a separate Oil and Gas Division was

created to handle such problems, and all the activities and effects of the Division of Geology were removed to the campus of Indiana University. In 1951, the name of the organization was officially changed to Geological Survey, Indiana Department of Conservation.

SCIENTIFIC AND TECHNICAL STAFF OF THE  
GEOLOGICAL SURVEY

Charles F. Deiss, State Geologist,  
A.B., Miami U., 1925; Ph.D., U. of  
Michigan, 1928.

Bernice M. Banfill, Administrative Assistant to the State  
Geologist

Coal Section

Charles E. Wier, Geologist and Head,  
A.B., Ind. U., 1943; A.M., 1949.

G. K. Guennel, Paleobotanist,  
B.S. Butler U., 1943; M.S. 1949.

Harold C. Hutchison, Geologist (on leave),  
A.B., Ind. U., 1950; A.M., 1952.

James T. Stanley, Geologist  
A.B., Ind. U., 1950; A.M., Miami U., 1952.

Geochemistry Section

Richard K. Leininger, Spectrographer and Head,  
A.B., Miami U., 1943.

Robert F. Blakely, Spectrographer,  
A.B., Miami U., 1946; A.M., 1948.

Maynard E. Collier, Chemist,  
B.Ch.E., O.S.U., 1938.

Geophysics Section

Judson Mead, Geophysicist and Research Director,  
S.B., M.I.T., 1940; Ph.D., 1949.

Maurice E. Biggs, Geophysicist,  
A.B., Ind. U., 1948; A.M., 1950.

Joseph F. Whaley, Geophysicist,  
B.S., Ind. U., 1952.

Charles S. Miller, Instrument Maker,  
B.A., Earlham, 1949.

Glacial Geology Section

William D. Thornbury, Geologist and Research Director,  
A.B., Ind. U., 1925; A.M., U. of Colo.,  
1928; Ph.D., Ind. U., 1936.  
William J. Wayne, Research Fellow,  
A.B., Ind. U., 1943; A.M., 1950.

Industrial Minerals Section

John B. Patton, Principal Geologist and Head,  
A.B., Ind. U., 1938; A.M., 1940.  
Haydn H. Murray, Clay Mineralogist,  
B.S., U. of Ill., 1948, M.S., 1950;  
Ph.D., 1951.  
Ned M. Smith, Geologist  
A.B., Ind. U., 1949.  
Ross Hickam, Preparator  
B. J. Worthington, Laboratory Technician

Paleontology and Stratigraphy Section

J. J. Galloway, Geologist and Research Director,  
A.B., Ind. U., 1909; A.M., 1911,  
Ph.D., 1913.  
Carlyle H. Hill, Jr., Research Assistant,  
A.B., Earlham, 1949.

Petroleum Section

Thomas A. Dawson, Geologist and Head,  
A.B., Ind. U., 1938; A.M., 1940.  
Helen M. Beikman, Geologist,  
B.S., Ind. U., 1952.  
Gerald L. Carpenter, Geologist,  
B.S., Ind. U., 1950.  
Dallas Flandt, Geologist,  
A.B., Ind. U., 1949, A.M., 1950.  
Andrew J. Hreha, Geologist,  
A.B., Ind. U., 1949.  
Mary Ann Lowrance, Geologist,  
B.S., Beloit College, 1948.  
Harold Sorgenfrei, Geologist,  
A. B., Ind. U., 1940.

Publications Section

Gerald S. Woodard, Editor,  
A.B., Ind. U., 1943; A.M., 1948.  
William H. Moran, Chief Draftsman  
Anita J. Heisterkamp, Draftsman,  
B.F.A., John Herron, 1949.

Alice A. O'Bryan, Draftsman  
John E. Peace, Draftsman  
George R. Ringer, Photographer

In addition to the routine work of keeping records, answering inquires, and furnishing geological assistance to industries, government agencies, research groups, and the general public, the Geological Survey has carried on investigations in many fields. The major projects of the last five years are listed below. Some of them are completed and the results published; others are still in progress.

1) Coal Section.

Detailed mapping of  $7\frac{1}{2}$ -minute quadrangles in southwestern Indiana.

Reconnaissance mapping of Clay, Daviess, Parke, Pike, Sullivan, Vermillion, Vigo, and Warrick Counties.

Initiation of a program of spore analysis for the purpose of making and refining correlations of Indiana coals. Preliminary work has been completed on the main commercial coals.

New calculations of coal reserves (Cooperative agreement with U. S. Geological Survey).

Assembly of data for directory of coal producers.

2) Geochemistry Section.

Establishment of spectrographic and chemical laboratories for analysis of non-metallic materials.

Development and application of analytical methods for determination of major constituents, plus sulfur, carbon dioxide, phosphorus, and trace elements in limestone and dolomite.

Development and application of analytical methods for determination of minor constituents in high-silica sand.

Study of preparation procedures.

Stratigraphic correlation of limestones by use of analytical data.

3) Geophysics Section.

Refraction seismic work to determine drift thickness (for Glacial Geology and Coal Sections).

Regional gravity survey of Indiana.

Aero-magnetic survey maps of all Indiana counties (Work done by U. S. Geological Survey under cooperative agreement with Indiana Geological Survey).

Compilation of state-wide regional magnetic map.

Seismic investigations of bedrock velocity characteristics and their application to stratigraphic correlation.

4) Glacial Geology Section.

Mapping of  $7\frac{1}{2}$ -minute quadrangles along Wabash Valley in Cass, Miami, Wabash, and Huntington Counties.

Field work and compilation for drift thickness map of Indiana.

Field work and compilation for glacial map of Indiana.

Compilation for bedrock topography map of glaciated area in Indiana.

Glacial geology of Wabash County.

Geology of Miami County.

5) Industrial Minerals Section.

Halloysite deposits in Lawrence County.

Stratigraphy, distribution, economic geology, chemical characteristics, and petrology of the limestones exploited for crushed stone and dimension stone.

Location, geology, and operational data for the 3000 active and abandoned gravel and sand pits in the state.

Petrology of the oolitic zones in the Ste. Genevieve limestone.

Mapping of the industrial sands south of Lake Michigan.

Sampling and examination of all commercially used clay and shale deposits.

Clay and shale resources of the Brazil area.

High silica sand prospects in parts of Clay, Parke, and Putnam Counties.



Lithologic and sieve analyses of typical commercial gravel deposits.

6) Paleontology and Stratigraphy.

Stratigraphy and paleontology of the Harrodsburg limestone.

Stratigraphy of the St. Louis limestone.

Mapping of the Chester-Meramec boundary (by Industrial Minerals Section).

Mapping of the Lower-Middle and Middle-Upper Chester boundaries (by Industrial Minerals Section).

Compilation of standardized stratigraphic column for Indiana.

7) Petroleum Section.

Assembly of master file on all wells drilled in Indiana.

Indexing and filing of cuttings, cores, electric logs, lithologic strip logs, graphic strip logs.

Subsurface structure maps of Clay, Dubois, Fountain, Green, Jackson, Owen, Parke, Sullivan, Vermillion, Vigo, and Warrick Counties.

Subsurface structure maps of Alford, Dodds Bridge, Old Terre Haute, Prairie Creek, Riley, Siosi, Spring Hill, and Wilfred pools.

Well location and total depth maps of Crawford, Daviess, Harrison, Knox, Lawrence, Martin, Monroe, Orange, and Washington Counties.

Investigations of Silurian and Devonian subsurface stratigraphy.

Compilation of state-wide oil and gas field map.

8) Publications Section.

Drafting Projects:

Aeromagnetic maps of Indiana counties (29), scale 1 in. = 1 mi.

Compilation and drafting of new base maps of Indiana counties (31), scale 1 in. = 1 mi.

Petroleum Exploration maps of Indiana counties (22), scale 1 in. = 1 mi.

Coal investigation series quadrangles (5), scale 1:24,000.

Illustrations for Geological Survey and Department of Geology publications.

Editing and publishing projects:

The Geological Survey currently issues the following publications:

Field Conference guide books (Beginning in 1947, a field conference has been held each spring under the joint auspices of the Geological Survey and the Department of Geology.)

Report of Progress Series.

Directory Series.

Bulletin Series.

Miscellaneous Maps.

Petroleum Exploration Map Series.

County Base Map Series.

These publications, and all material published in cooperation with the U. S. Geological Survey, are sold through the Publications Section. (Complete publications list of Geological Survey and its predecessors available upon request.)

Plans for an annotated bibliography of Indiana geology were approved by the Geology faculty in 1948. Faculty members at several other schools in the state were invited to contribute annotations. In 1951, the project was made a joint effort of the Geological Survey and the Geology faculty, and the responsibility for the compilation and assembly of the material was placed in the hands of the editor for the Geological Survey.

A good picture of the current activities of the Geological Survey can be obtained from a synopsis of the proposed field program for the coming summer. The Coal Section will have two field parties making reconnaissance surveys in Gibson, Knox, Posey, and Vanderburg Counties. The Geophysics Section will operate a refraction seismograph party to establish drift thickness for the Glacial Geology Section. Part of the work will be on the specific problem of pre-glacial valleys. Electrical resistivity work is contemplated for the determination of gravel beds in pre-glacial and inter-glacial valleys. Investigation of velocity characteristics in relation to bedrock stratigraphy will be continued. An additional party under the direction of the Geophysics Section will

establish altitudes on seismic shot points and water wells. The Glacial Geology Section will investigate the boundary between the Cary and Tazewell substages of Wisconsin glaciation. The section will also map and sample the Tertiary Ohio River formation in Clark, Floyd, Harrison, and Washington Counties. Four field parties will be under the direction of the Industrial Minerals Section. One of them will investigate the clay and shale resources of Fountain, Parke, Vermillion, and Warren Counties. Another party will investigate the high silica sand potentialities of the Mansfield and Staunton formations. Two of the parties will continue mapping of the Chester-Meramec contact and the Lower-Middle and Middle-Upper Chester contacts. The petroleum Section will operate three field parties checking locations, running altitudes, and collecting other data on wells in Dubois, Perry, Pike, and Spencer Counties.

The Indiana University campus has proved to be an ideal location for the Geological Survey, largely because of the close cooperation that has developed between the Survey and the Department of Geology. Faculty members have been available for advice and consultation in their special field and each year since 1947 some members of the faculty have joined the staff of the Survey for the duration of the field season. In some of these cases, the faculty members have also directed research projects carried out by Survey personnel throughout the year. The faculty has benefited from the support that the Survey has been able to provide for research.

The equipment needs of the Department of Geology and the Geological Survey are similar or identical in some fields. Shared use of such equipment has permitted each organization access to more facilities than it could afford to purchase or staff within its own budget.

Approximately ten fellowships and assistantships are available from the Indiana Department of Conservation through the Geological Survey. Some of the graduate research performed on these grants contributes significantly to the knowledge of Indiana geology. The sections of the Survey also employ a still greater number of graduate geology students on an hourly basis. It is natural that these students have a greater interest in the work to which they are assigned than would outside personnel hired at the same pay scales. Most of the summer field parties consist of a party chief and a field assistant, although some types of work, such as the geophysics programs, may require three or four men to each party. Field assistants are hired principally from the ranks of Indiana University geology students and, in some cases, graduate students are made party chiefs. The experience gained from all of these jobs provides a constant flow of trained people to fill the full-time positions in the Survey. The same experience also makes these students more useful to outside employers.

Upon the evidence of five years of experience, we are glad to report that, from the viewpoints of facilities, training, and available

talent, the close relationship of the Geological Survey and Department of Geology has made each organization stronger than it could be alone.

ENROLLMENT

R. E. Deane

Enrollment in the Department of Geology shows trends which are of interest but which must be taken at their face value because of the many factors that influence them. In all probability, the trend of the number of students in geology will follow the trend of the University as a whole. This trend is given in the following table:

	1946-7	1947-8	1948-9	1949-50	1950-1
Full Time Enrollment of the University (Regular year)	14,986	15,802	15,378	14,805	14,360
College of Arts and Sciences	3,108	3,751	3,260	2,936	2,590
Graduate School	677	743	857	1,060	1,337

The total enrollment of majors in the Department for 1950-51 and 1951-52 was as follows:

	<u>1950-51</u>	<u>1951-52</u>
Undergraduate	68	63
Graduate	48	43

Factors affecting increased enrollment are veterans and the general demand for higher education; of these the former is more immediate with the peak in 1947-48 as shown in the enrollment for the University as a whole and in the College of Arts and Sciences. Although the large number of veterans has caused an increase in the number of graduate students, the increasing demand for advanced degrees has had an even greater influence on graduate enrollment.

Factors contributing to decreased enrollment are the expiration of veteran's benefits; the increasing cost of education; the call of the armed services; and the siren call of high salaries paid by industry. Of these the first two are probably more influential on the undergraduates whereas the last two play havoc with the graduates.

Enrollment in particular courses have followed no set pattern. Some have shown increases and others have followed the university trend. Factors which have significantly affected course enrollment are: (a) students do not follow a set order in which courses are taken because some take a concentrated dose of geology while others take it more leisurely; (b) the number of courses offered during the past five years has been greatly increased thus giving the students a greater choice; (c) the required courses for the Bachelor of Science degree has been modified, again giving the student a wider choice; and (d) some courses are given each semester while others are given alternate semesters and in some years courses are not offered. The introduction in 1951-1952 of a new course Geology and Man likely will cut down the enrollment in both Physical and Historical Geology, but it is hoped that it will eventually bring more majors into the department.

RECENT GRADUATES IN GEOLOGY

Brian Mason

A.B. - June, 1951

Newsom, Donald Richard

B.S. - June, 1951

Greender, Gordon Conrad  
Hare, John Frederick  
Hite, Robert Duncan  
Holloway, Perry Gregory  
King, Addison Harris  
Mannan, Donald Wells  
Solbrig, Charles Vance

A.M. - June, 1951

Barr, John George  
Major: Petroleum Geology  
Minor: Micropalaeontology, Geomorphology  
Thesis: The Geologic Structure of Point Township, Posey County, Indiana

Hyer, Donald Eugene  
Major: Petroleum Geology  
Minor: Palaeontology  
Thesis: The areal Geology of the Salem Quadrangle and the Subsurface Geology of Washington County, Indiana

Six, Don Eldon  
Major: Petroleum Geology  
Minor: Micropalaeontology  
Thesis: The Subsurface Geology of the Mounts Area, Gibson County, Indiana

Ph.D. - June, 1951

Kottowski, Frank E.  
Major: Economic Geology  
Minor: Chemistry and Petrography  
Thesis: Geology of the Switz City and Coal City Quadrangles, Indiana

A.B. - September, 1951

Beck, Thomas George  
Harris, James Richard  
Jenkins, Robert David  
Jones, Thomas David  
LaGro, Joseph Ray  
Lennart, Eugene John  
Loftin, Grady Adams  
Puscas, George

B.S. - September 1951

George, Raymond Leon  
Pinsak, Arthur Peter  
Sayyab, Abdullah Shakir  
Surface, Richard Amos

A.M. - September, 1951

Bowen, Richard Lee  
Major: Petroleum Geology  
Thesis: A Geological Report on the Guffie Area, McLean and Daviess  
Counties, Kentucky

Hughes, John Herbert  
Major: Petroleum Geology  
Minor: Micropalaeontology and Geomorphology  
Thesis: The Geology of the Deer Creek Fault Area, Perry County,  
Indiana

A.B. - February, 1952

Beikman, Helen Marie

B.S. - February, 1952

Neel, John Robert  
Whaley, Joseph Floyd  
Rudnyansky, Albert Julius

A.M. February, 1952

Crites, William Henry  
Major: Petroleum Geology  
Thesis: The subsurface geology of the New Harmony - Poseyville Area,  
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Deane, Harold Lutz  
Major: Glacial Geology  
Minor: Geomorphology  
Thesis: The geology of Miami County, Indiana

Hutchison, Harold Christy  
Major: Economic Geology  
Thesis: The geology and mineral deposits of the Seelyville Quadrangle,  
Vigo County, Indiana

Johnson, Frank Marion  
Major: Mineralogy  
Thesis: Non-carbonate materials in some Indiana limestones and dolomites

Taylor, Ira Daniel  
Major: Petroleum Geology  
Thesis: The Pennsylvanian stratigraphy of Daviess County, Indiana

Taylor, Waller Eugene  
Major: Petroleum Geology  
Thesis: The Cypress (Jackson) Formation of Warrick, Spencer, Perry,  
Dubois, and Crawford Counties, Indiana

Warren, Elbert Clay  
Major: Petroleum Geology  
Thesis: A geologic report of the Beck's Mill Quadrangle, Washington  
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Charles Vance Solbrig  
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South Bend, Indiana

Harold Sorgenfrei  
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Caripito, Venezuela

Charles G. Spencer  
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Mrs. Carr Stanger  
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Robert H. Stewart  
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Paris Buell Stockdale (Dr.)  
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Arthur Franklin Striker  
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Ira Dan Taylor  
Address unknown

John Rex Taylor, Jr.  
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Waller Eugene Taylor  
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Harriett Maitlen Thomas (Mrs.)  
R. R. 5, Richmond Pike  
Lexington, Kentucky  
c/o Dr. K. O. Lange

Henry Oliver Thomas  
R. R. #1  
Rockville, Indiana

William Avery Thomas  
2209 Belfontaine  
Houston 5, Texas

Albert Warrick Thompson  
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Donald Frederick Thompson  
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Howard Lee Tipsword  
Magnolia Petroleum Corporation  
Box 872  
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John Edward Uhl  
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Greenwood, Indiana

William Phillip Von Osinski  
Honolulu Oil Corporation  
P. O. Box 1391  
Midland, Texas

Courtney Waddell  
Room 240  
Capitol Building  
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Elbert Clay Warren  
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Roosevelt, Utah

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Frank Hoyt Williams

Melvin Edward Wooton  
Superintendent of Schools  
Brewster, Florida

Wesley Edward Williams  
704 14th Terrace  
Hutchinson, Kansas

Paul David Yundt  
c/o F. E. Moran Engineering Company  
305 Holland Building  
Owensboro, Kentucky

James C. Wilson, Jr.  
Poseyville, Indiana

#### ALUMNI NEWS NOTES

Ralph Esarey

This first edition of the Alumni News will be incomplete and we are fully aware of the fact that we cannot mention all of the alumni in this issue. Also, some names, places, and titles will be wrong, for which we apologize. If you will send in corrections for these mistakes, it will clarify our records. After a few issues we should get most of you straightened out providing you will help by notifying us of changes of address.

We understand that John R. Reeves is with the Penn York National Gas at Buffalo, New York. He seldom writes but will probably breeze in sometime unannounced.

Robert Reno is general manager of an automobile company at Indianapolis, Indiana.

Horace Rankin is still with the Shell Oil Company at Midland, Texas.

Hubert Latimer has been transferred to Toledo, Ohio from the Philadelphia office. He is still with the Sun Oil Company.

Dwight Mauck is with the Pure Oil Company with headquarters at Fort Worth, Texas.

The writer is especially grateful to Lester Logue for the brochures upon Geophysics. Such data from the industry is especially helpful in teaching.

Walter Spangler, last year's winner of the award for the best article by young geologists, published in the Bulletin of the A.A. P. G., writes from Caripito, Venezuela that everything is reasonably quiet on the South American front. His golf game has not been interrupted for some time.

Jim McCulloch still lives in Denver and works for the Carter Oil Company.

John Wall, paleontologist with the Imperial Oil Company, writes that everything is at the boom stage around Edmonton.

Orville Bandy is teaching geology at the University of Southern California, Los Angeles.

John Buehler is teaching chemistry and geology at Anderson College, Anderson, Indiana

Jim Reeves, when last heard from, was working out of Tulsa, Oklahoma with the Sinclair Oil and Gas Company.

Gordon Fix is still fighting the Illinois basin area with the Carter Oil Company. He is living at Mattoon.

Eight former students and faculty members of I.U.'s Geology Department, Dr. Eugene Callaghan, Dr. Rousseau Flower, Dr. Frank Kottowski, Robert A. Bieberman, Doris F. Bieberman, Dean Pennington, Al Miesch, and Wayne Bundy compose the department's alumni colony in Socorro, New Mexico.

Dr. Callaghan, professor of Economic Geology (1945-49), is Director of the New Mexico Bureau of Mines and Mineral Resources in Socorro. Since assuming the Directorship in the Fall of 1949, Dr. Callaghan has been building up the Bureau so that today it ranks very high among the various State Geological Surveys.

The Biebermans arrived in Socorro in June of 1950. Bieb is Petroleum Geologist for the Bureau. Doris and Bieb became the parents of James Edward last October 10th.

Dean and Carol Pennington arrived in Socorro in July of 1951 along with the Kottowskis, Miesch's and Bundy's. Dean is assistant petroleum geologist with the bureau. Bieb and Dean have recently discovered some old friends, Ste. Genevieve, St. Louis, Salem and an Endothyra Sp. in Union County, New Mexico. The Pennington's are really having themselves a time exploring Indian ruins.

Frank, Florence, and Karen Kottowski have just moved into their new house in Socorro. Frank joined the staff in July of 1951 and is presently engaged in the mapping of the east half of the Sante Fe Quadrangle. Frank is working on two 7½ minute sheets. The geologic section includes Pre-Cambrian, Pennsylvanian and Tertiary rocks.

Wayne Bundy is assisting Frank on the Sante Fe project. On week ends Wayne is doing surface and underground mapping in the Bland Gold and Silver

Mining District which Wayne plans to use as a thesis upon his return to Indiana for further work. The Bundy's are making their home in Sante Fe, New Mexico.

Al Miesch has been assisting Dr. Callaghan with research on per-lite. On week ends Al is mapping the southern part of the Socorro Mountains which will be his thesis upon his return to Indiana for further work. Al will soon leave for the southern part of the state where he will assist Dr. Robert Balk in the mapping and study of the Tres Hermanos Mountains. Dr. Balk has recently joined the staff of the Bureau and was formerly at the University of Chicago. Al and Norma Miesch became the parents of Nancy Jean last August.

The last former I.U.'er to join the staff of the Bureau was Dr. Rousseau Flower. Dr. Flower attended Indiana in 1936 and 1937 between his masters and doctors degrees. Dr. Flower is Paleontologist and Stratigrapher for the Bureau and was formerly at The New York State Museum.

A frequent visitor at the New Mexico Bureau of Mines is Mr. Raymond L. Hunt. Ray received his geological training at Indiana and has recently given up his consulting business in Michigan to assume the position of District Geologist for Cities Service in Roswell, New Mexico.

Bill Williams is doing field work in the San Juan Basin of Northwestern New Mexico for Gulf Oil Company.

Bob Hite has been transferred to Albuquerque, New Mexico. He is with Phillips Petroleum Company.

Bill Von Osinski is working with the Honolulu Oil Company in Midland, Texas. The writer is grateful for many favors from Bill.

Courtney Waddell has accepted a job with the United Geophysical Company and is working out of Midland, Texas. He expects to complete the requirements for a Ph.D. this spring.

Homer Brown is assistant director with the Oil and Gas Division in Indianapolis working under Elmer Hoehn.

Dallas Fiantt is right-hand man for Tom Dawson, who is in charge of the Petroleum Section of the State Geological Survey.

Since his father's death, Bob Stewart is farming the old home place near Darlington, Indiana.

Carroll Roberts is reported studying law at Indianapolis.

H. H. Bradfield visited the department for a day interviewing graduate students. This was his first trip back to the campus for some time. We were sorry he couldn't spend another day or two with us. He is Division Geologist with the Texas Company and is living in Houston.

We saw Marshall Harold's picture in one of the Trade Journals recently. He is an officer in the local geological society. He still likes San Antonio.

John R. Harris is still geologist with the Texas Company at Ardmore. About a year ago John Hughes reported to him for work with the same company.

John Organ is still in the consulting business at Sullivan, Indiana and is doing alright we understand. His brother Jim Organ lives at Fort Lauderdale, Florida and is practically retired. He would appreciate a visit from any of the boys who are vacationing down that way.

John Combs is still living in Miami, Florida and is flying four and six motor jobs for Pan American.

George Winston was in Michigan for the Carter Oil Company when last heard from.

William F. Rawles is listed in the Trade Journal as residing at 6328 A 8th Avenue, in west Calgary, Alta., Canada. We would appreciate confirmation of this address. Bill has not been around for many years.

Julian Kane is working in the purchasing department of the Sloan-Kettering Cancer Research Institute at New York City, N.Y.

Howard Legge, preparator in the department for some 35 years, died last July. "Leggum" was a good friend to everyone in the department. He was a "father confessor" and general trouble shooter for about everyone in the department. His unfailing good disposition and friendly words made the department a more pleasant place in which to work. We are very sorry indeed to lose him.

Preston McGrain is now geologist with the Kentucky Geological Survey and is living in Lexington. Dan Jones reports that he is doing a splendid job.

Dan Taylor has just completed his M.A. degree and has reported to the Pure Oil Company.

Don Hyer reported to the Texas Company a few months ago and was assigned to the Shreveport office.

Don Munich is working for Louisville Cement Company with headquarters at Louisville, Kentucky.

Ad King is working part-time as geologist for the Morgan Brothers Coal Company at Indianapolis. He spends the rest of his time going to school here at Indiana.

Earle Newcomer was employed by the Texas Company and was assigned to the office at Jackson, Mississippi.

For some reason the address of Bill Allen has been lost. Would Bill or one of his associates please send us the necessary information.

Dan Kralis and Bill Cordell are owners of the Geo Service Company at Abilene, Texas. We hear Dan now has two children. Both Bill and Dan are doing well.

Rosalind Robinson is assistant in the Department of Geology at Smith College. She received her A.B. in 1950. Mrs. Caroline Heminway Kerstead is chairman of the department at Smith College. Some of you may remember that Mrs. Kerstead took her Ph.D. under Galloway some years ago. She reports that Rosalind is doing a good job.

Don Six is with the Standard of California and is stationed at Bakersfield, California.

John Allison is operating a newspaper at Mt. Carmel, Illinois.

Jim Bush is working toward a Ph.D. degree at the University of Washington at Seattle.

Professor Charles Bajza and Mrs. Bajza, who was formerly Esther Warner, are living at Kingsville, Texas. Charlie is professor of geography at Texas College of Arts and Industries.

Roger L. Batten is working toward his Doctorate at Columbia University.

Professor E. R. Cumings and Mrs. Cumings are living at 54 Liberty Extension Street, Painsville, Ohio.

Professor H. N. Coryell is teaching at Columbia University. He still likes his Ostracods.

When last heard from Lewis Childs was working at Oak Ridge, Tennessee.

John W. Huddle is geologist with the U.S.G.S. and living at Lexington, Kentucky. He is in charge of an extensive coal survey in Eastern Kentucky.



Joe St. Jean is teaching geology at Kansas State at Manhattan, Kansas.

Ken Waters has been with the California Company for the past couple of years in the New Orleans office. The reports on Ken are very good.

Charlie Wier is doing a splendid job with the Coal Section of the Indiana Geological Survey. He employs many of the graduate students for summer work. On the side Charlie is working for his Ph.D. degree.

Mrs. Mary Paine is with the Pure Oil Company at Corpus Christi, Texas.

In case you didn't know - Professor Paul Proctor, who obtained his Ph.D. here a couple of years ago, is now in charge of Economic Geology. I think Paul is one of the coming men in his field.

E. H. Rainwater is living at Lake Charles, Louisiana and works for the Texas Company.

Clay Warren spent the summer in Utah working for the California Company.

A large number of Indiana boys are working in the Illinois basin. We haven't space to comment upon all of them so we have made up the following list. It is probably incomplete and we apologize to those whom we have missed. If your name is not included will you please send us a card: Hollis Fender, Everest Wible, Charles Spencer, George Heap, Bob McNeal, Norbert Parker, Dick Horton, Paul Yundt, Paul Kelly, Wes Williams, John Miller, John Hamilton, Robert Sublette, Robert Faith, Robert Howden, Jim Wilson, Fred Jackson, and Jim Wood.

Among others, the following are working for the Indiana Geological Survey: Maurice Biggs, Gerald Carpenter, Andy Rheha, and Helen Beikman.

Howard Tipswood, who took his Master's degree in 1938, is now with the Magnolia Petroleum Company at Lake Charles, Louisiana.

Will Charles Passell please write of his whereabouts. Charlie moves so fast we cannot keep up with him.

Dale Kline recently completed the work for his A.M. degree and has reported for work with Standard Oil of California at Bakersfield.

Probably the oldest living graduates of the department are Essie Smith and Arnett Smith, brother and sister. Both are residing a few miles east of Bloomington. Dr. Galloway says they out-date him by several years.

Robert Bates is director of student affairs at V.P.I. at Blacksburg, Virginia.

Don G. Barnett is geologist for the United Gas and Oil Company and lives at Shreveport, Louisiana. His street address is 3120 Baltimore Road.

Victor Barua, who got his M.A. degree in 1950, is working with the Northern Peru Mining and Smelting Company on porphyry copper deposits at Toquepala and Quellaveco. His address is Casilla 303, Tacna, Peru.

Bob (Tex) Mayo is an agent for an insurance company at Van, Texas.

George Bechner is working out of Denver, Colorado in the Geophysics Department of the Carter Oil Company.

Harry Kugler is working in the Geophysics Section of the Carter Oil Company at Midland, Texas.

Hal Bybee is professor of geology at the University of Texas. He also has charge of the oil land belonging to the University. Hal took his Ph.D. degree at Indiana in 1915.

Professor Wm. Tucker is living at Fresno, California. He formerly was head of the department of geology and geography at Fresno State College. Professor Arch Addington, who has two degrees from Indiana is now head of the department at Fresno.

Eula D. McEwan has retired from the department of geology at the University of Nebraska. We understand she is still living at Lincoln.

R. R. (Bob) Shrock is head of the department of geology at Massachusetts Institute of Technology. Bob got his Ph.D. degree from Indiana in 1928.

P. B. Stockdale is chairman of the department of geology at the University of Tennessee, Nashville, Tenn.

Luther S. Ferguson is western manager for Charles Scribner with offices in Chicago but he still calls Bloomington home. His fine Herefords seem to thrive upon the Mississippian strata of Lawrence County.

George Whitlatch, who got his Ph.D. in 1932 was chairman of the State Planning Board, Nashville, Tennessee when we saw him last. We would like to be corrected if this is wrong.

The writer saw Tom Beck and Bob Baxter at Worland, Wyoming. Both boys are working for Core Laboratories out of Worland.

We received a Christmas Card from Glen T. Bartle. He is teaching geology at Triple Cities College, Syracuse University, Endicott, New York.

Jim Barnes was teaching at Washington University, St. Louis when last heard from.

Raymond L. Parker (A.M., 1949) is working toward his Ph.D. degree in the Geology Department of Columbia University.

Richard C. Erd (A.B., 1950) is working in the Geochemistry Section of the U.S. Geological Survey in Washington, D.C. He is also writing a bulletin describing the minerals of Indiana, which will be published by the Indiana Geological Survey.

Prentice and John Moore seem to be finding their share of oil in West Texas. More power to them!

Bob Kidd is still with the City Service Oil Company at Bartlesville, Okla.

Pat Stouder, formerly with the Louisville Gas and Electric, has gone independent and is now on a consulting basis. His last reported job was that of finding gas storage for one of the large transcontinental pipe lines.

Dick Schweers is still with the Texas Company at Ft. Worth and his younger brother Fred is now working with the Skelly Oil Company at Oklahoma City.

Capt. Willis Smith sent us a Christmas card with a return address of 7507 Air Base Group, A.P.O. 47, c/o Postmaster, New York City, N.Y.

Bill Thomas, who is Division Geologist with the Ohio Oil Company at Houston, Texas, writes that he expects to visit the campus in the near future.

The writer is indebted to Bob Grosjean for two copies of the "Oil Well Drilling Manual" published by the American Association of Oil Well Drilling Contractors. The manual is very useful in teaching drilling methods in Petroleum Geology.

Bob Hite is employed by the Phillips Petroleum Company at Albuquerque, New Mexico. Bob is doing field work in the San Juan basin and enjoys it very much.

Several alumni are now working out of Casper but we are not sure just how many. Some of them are as follows:

Raymond Robbins is chief geologist with the Tri-Good Oil Company with headquarters at Casper, Wyoming.

Carl Freilinghausen is working with the Texas Company and Barbara Brooks is with the Ohio Oil Company.

Tom Heistand bought the writer a dinner in Casper, Wyoming last summer. Tom is reported to be living in Casper now.

If your name is missing from the above notes it is probably because we haven't heard from you. Help us make the next News Letter more complete by writing us as to where you are and what you are doing.