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Deiss*

INDIANA UNIVERSITY
DEPARTMENT OF GEOLOGY

GEOLOGY NEWS LETTER NO. 2

BLOOMINGTON, INDIANA

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GREETINGS TO ALUMNI

Charles F. Deiss

It is always pleasant to send greetings to such successful and enthusiastic colleagues as the geo-alumni of Indiana University. Not only are the men who graduated a quarter of a century ago occupying responsible positions in the major companies, but I. U. graduates in geology during the past six years are making themselves useful and important to the oil and mining industries. We are receiving complimentary reports about many of these graduates from their supervisors and from officials in the companies.

Each member of the geology faculty is aware of his responsibility to his students, and of the importance of the quality and kind of training they must have if they are to be useful to their employers and to society, as well as to the geologic profession.

You will be interested to learn that we shall have our largest number of Fellows and Teaching Assistants from other colleges and universities next year for graduate training. The enrollment, however, of our own geology majors is down, as it is in geology departments throughout the country. The military draft for the Korean War, the many jobs with large beginning salaries for A.B. and B.S. graduates, and the fact that engineers, chemists, and physicists are doing a better job of advertising their professions throughout the country than are geologists - all are responsible for the decline in geology students.

In order to stimulate scholarship and increase the enthusiasm and competition among the undergraduates in the department, the Geology Faculty personally bought a Brunton compass which was awarded in September 1952 to the senior with the highest academic record during his previous two years. I think you will agree that it is healthy and admirable when faculty members volunteer to contribute from their never-too-great salary to the ideal of higher scholarly standards and attainment.

The more significant changes in the curriculum during the past year have been the addition of a course in sedimentation taught by Professor Haydn Murray, our Clay Mineralogist; the decision to teach sedimentary petrology from the point of view of clay mineralogy beginning next year; and the enlargement and consolidation of the instrument and carpenter shops in order to provide better facilities for making new special equipment for the research of the entire faculty and graduate students.

Ralph Esarey and I were genuinely sorry that we were unable to attend the honorary luncheon which the alumni gave on March 25 for Professor Galloway in Houston, Texas, at the A.A.P.G. meetings. The luncheon was given in honor of Dr. Galloway's high achievement in micropaleontology and the distinction which he has brought to the geology department at I.U. His retirement in June this year will take from us the greatest living micropaleontologist.

The Editor, Professor W. D. (Bill) Thornbury, did not receive a single letter or post card from any of you concerning the first NEWSLETTER which was distributed in June 1952. Some of you commented about it in person and by letter to Ralph Esarey and other faculty members. The Editor

would like to know if you think the NEWSLETTER is worthwhile. If you do, he particularly would like to have your suggestions concerning its contents and methods of improving it. Your comments and suggestions have been helpful and the Editor would appreciate your taking the time to write him your reaction to this edition of the NEWSLETTER.

TEACHING STAFF

Senior Teaching Staff

Jesse James Galloway, Professor of Geology and Paleontology
Charles Frederick Deiss, Chairman and Professor of Geology
Ralph Emerson Esarey, Associate Professor of Geology
William David Thornbury, Associate Professor of Geology
Brian Harold Mason, Associate Professor of Mineralogy
Charles Joseph Vitaliano, Associate Professor of Geology
Wayne Russell Lowell, Associate Professor of Geology
John Barratt Patton, Associate Professor of Geology
Roy Eric Deane, Assistant Professor of Geology
Judson Mead, Assistant Professor of Geophysics
Haydn Herbert Murray, Assistant Professor of Geology
Thomas Gregory Perry, Assistant Professor of Geology

Junior Teaching Staff and Research Assistants

Haydn Murray

The teaching load of the faculty members is lightened considerably by the graduate assistants and the research assistants. Except for one undergraduate assistant, this year's graduate assistants and research assistants are students who are working for the M. A. or Ph. D. degrees. These students have come from many different schools and bring with them diverse points of view which provide a stimulating academic atmosphere to the geology students at Indiana University.

Graduate assistants for 1952-53:

Robert E. Boyer, A. B. Colgate Univ. 1951, home - Palmerton, Pa., assistant in structural geology. He is working toward an M. S. degree and is doing his thesis in structural geology under the direction of Dr. Deane.

Wayne M. Bundy, A. B. Indiana University 1950, home - Anderson, Ind., assistant in historical geology and petrography. Wayne worked for Dr. Eugene Callaghan, formerly of this department, at the New Mexico Bureau of Mines. He returned to Indiana this semester to finish work toward an M. S. degree and is doing a thesis under Dr. Vitaliano's direction.

Donald K. Cameron, A. B. McGill Univ. 1952, home - Andover, Mass., assistant in historical geology. He is working on an M. S. degree in paleontology under Dr. Perry's direction.

Dean S. Clark, A. B. Montana State Univ., 1950, home - Missoula, Montana, assistant in physical geology. Dean received his M. S. degree in February and is now working for the Phillips Petroleum Company.

Donald C. Devening, B. S. Indiana Univ., 1952, home - Columbus, Indiana, assistant in paleontology. Don is working on a thesis under Dr. Murray and will receive his M. S. in June. He has a job with the California Company after he receives his degree.

Wayne E. Fowler, A. B. Earlham College 1951, home - Albany, Georgia, assistant in geomorphology, physical geology, and field methods. Wayne will complete a thesis under the direction of Dr. Thornbury this June and plans to continue here at Indiana University and work for the Ph.D. degree.

Elbert L. Hale, A. B. Earlham College 1951, home - Richmond, Indiana, assistant in geophysics and physical geology the first semester. The second semester he is a research assistant to Dr. Mead studying seismic wave forms. Elbert will finish his M. S. thesis this semester under Dr. Mead's direction and has a job with Standard Oil Company of California.

Olin R. Holt, home - Spencer, Indiana, will receive his B. S. degree in June. Olin is our only undergraduate assistant and is assisting in petrology. He plans to continue at Indiana University and work for an M. S. degree.

Lawrence F. Rooney, A. B. Montana State 1948, A. M. Montana State 1950, assistant in field methods. Lawrence received his A. B. and A. M. degrees in English and is now working on an M. S. degree in geology under Dr. Lowell's direction.

Research assistants for 1952-53:

Camille Buschman, A. B. Hunter College 1952, home - Staten Island, New York, assistant to Dr. Galloway in his research on the bryozoans in the Harrodsburg limestone. She expects to work as a micropaleontologist for an oil company.

Alfred T. Miesch, A. B. St. Joseph College 1951, home - Hammond, Indiana, research assistant to Dr. Vitaliano on his studies of the thermal analysis of dolomite, brucite and magnesite. Al finished his course work for the M. S. degree in February and is now working for the U. S. G. S. out of Gunnison, Colorado.

George T. Moore, B. S. Notre Dame University 1952, home - Chicago, Illinois, assistant to Dr. Perry in his work on the Chester formations

of Indiana. George is working on an M. S. thesis under Dr. Vitaliano.

Albert J. Rudnyansky, B. S. Indiana University 1952, home - Miami, Florida, assistant to Dr. Mead in a study of the physical properties of coal. He is also doing a thesis in geophysics under Dr. Mead.

Joseph J. St. Jean, B. S. College of Puget Sound 1949, home - Tacoma, Washington, assistant to Dr. Galloway in a study of Devonian stromatoporoids. Joe is working on a Ph. D. thesis under Dr. Galloway's direction.

W. Kelly Summers, B. S. Wayne University 1952, home - Detroit, Michigan, assistant to Mr. Patton in a study of some high-silica sandstones in Indiana. Kelly is working on a thesis under Mr. Esarey's direction.

DEPARTMENT OF GEOLOGY

Non-Academic Staff

Bernice M. Banfill, Administrative Assistant
Theodore H. Appleton, Accountant
Virginia L. Langdon, Secretary
Rebecca L. Taggert, Librarian
Ross Hickam, Preparator

STAFF OF THE GEOLOGICAL SURVEY

Charles F. Deiss, State Geologist
Martha N. Smith, Secretary

Coal Section

Charles E. Wier, Geologist and Head
G. K. Guennel, Paleobotanist
S. A. Friedman, Geologist
Harold C. Hutchison, Geologist
Sally E. Smith, Secretary

Geochemistry Section

Richard K. Leininger, Spectrographer and Head
T. C. Yao, Spectrographer
Maynard E. Collier, Chemist

Geophysics Section

Maurice E. Biggs, Geophysicist and Head
Judson Mead, Research Advisor
Robert F. Blakely, Geophysicist
Charles S. Miller, Instrument Maker

Glacial Geology Section

William J. Wayne, Geologist and Head
William D. Thornbury, Research Advisor

Industrial Minerals Section

John B. Patton, Principal Geologist and Head
Haydn H. Murray, Clay Mineralogist
Seymour S. Greenberg, Petrographer (on leave)
John M. Smith, Geologist
Ned M. Smith, Geologist
Mary Beth Fox, Secretary

Paleontology and Stratigraphy Section

J. J. Galloway, Research Advisor

Petroleum Section

Thomas A. Dawson, Geologist and Head
Gerald L. Carpenter, Geologist
Andrew J. Hreha, Geologist
Thomas D. Jones, Geologist
Mary Ann Lowrance, Geologist
Harold Sorgenfrei, Geologist
Virginia L. Shoultz, Secretary

FACULTY ACTIVITIES DURING SUMMER OF 1952

Prof. J. J. Galloway and Harold Kaska completed a monograph on "The Genus *Pentremites* and its species" which is to be published as a Memoir by the Geological Society of America. Mr. Kaska used part of the monograph as his Master's thesis.

Professor Charles J. Vitaliano spent the summer at Socorro, New Mexico. There, in collaboration with Dr. Callaghan, he began assembling the major report on the studies made at Gabbs, Nevada. At the end of the summer the Vitaliano family took a ten-day vacation trip into Mexico.

Professor Brian H. Mason represented Indiana University at the nineteenth session of the International Geological Congress, held at Algiers, September 8-15. Before the session he took part in a fourteen day excursion to study the geology of the coastal regions of Tunisia and Algeria and after the session spent three weeks in Morocco visiting mineral deposits. He obtained some excellent material for the department's mineral collections.

Professor Thomas G. Perry spent the summer completing the work begun the previous summer in establishing the areal distribution of the Chester (Upper Mississippian) rocks in Indiana. The results of this work are to be published as a bulletin of the State Geological Survey.

Professor Haydn H. Murray continued his work for the State Geological Survey collecting samples of clays and shales for the purpose of determining their possible economic value as raw materials in the ceramics industry. He also attended and participated in the first National Clay Conference, held at the University of California at Berkeley.

Professors Esarey and Thornbury spent a part of the summer at the Geologic Field Station in Montana. They managed to stay within shouting distance of most of their students and particularly enjoyed the social activities at Whitehall.

Professor R. E. Deane spent the summer as chief contractor, carpenter, electrician, plumber, stone-mason, etc. on the new home which the Deanes are building. If the time should ever come when he finds it impossible to live on a professor's salary, he should be able to qualify as a master craftsman in any one of several crafts.

Professor Wayne R. Lowell was in charge of summer camp in Montana during the field season and spent the remainder of the summer, along with a half dozen of the more sturdy students, searching for phosphate deposits for the Victor Chemical Company.

Professor Judson Mead spent the summer in Bloomington doing geophysical research.

Professor J. B. Patton spent the summer supervising various phases of the State Geological Survey's program on industrial minerals.

Dr. Deiss spent his summer examining granite, marble, and slate quarries as Chairman of the Dimension Stone Committee of the American Institute of Mining Engineers. He also spent three weeks at the Geologic Field Station in Montana and the remainder of the summer checking field parties for the Geological Survey in Indiana.

1952-1953 JOURNAL CLUB PROGRAMS

C. J. Vitaliano

An innovation in this year's Journal Club programs was the inclusion of a review by a student of an article or book on some topic of general interest, except on those days when guest speakers were on the program. Typical of such reviews are the following:

"Ore genesis" - John S. Brown, The Hopewell Press - reviewed by William Flanagan.

"The planets, their origin and development" - H. S. Urey, reviewed by S. Ross Taylor.

"Facies concepts of organic reefs" - P. E. Cloud, Jr., A.A.P.G. Bulletin, reviewed by Art C. Brookley.

"The significance of evolutionary explosions for diastrophic events of earth history," Jour. Paleontology, reviewed by Joseph St. Jean.

First Semester Programs

September 29, 1952. William D. Thornbury: "A new glacial map of Indiana."

October 6, 1952. G. K. Guennel: "Spore analysis as applied to Pleistocene stratigraphy."

October 13, 1952. Sigma Gamma Epsilon program.

October 20, 1952. J. B. Patton: "A study of the Jeffersonville formation" - R. K. Leininger: "Results of the application of spectrographic techniques to the analyses of samples taken from the Jeffersonville formation" - T. S. Sondhi, Geological Survey of India: "Recent advances of the Geological Survey of India under the new government."

October 27, 1952. Prof. Harold R. Wanless, University of Illinois: "Eustatic shifts of sea level in relation to Pennsylvanian sedimentation."

November 10, 1952. Joseph St. Jean: "A middle Pennsylvanian foraminiferal fauna from Dubois County, Indiana."

November 17, 1952. Wayne R. Lowell: "Phosphate deposits of the Centennial Mountains, southwestern Montana."

November 24, 1952. Dr. Maxwell Gage, Canterbury College, Christ Church, New Zealand; Visiting Professor of Geology, University of Illinois: "Structure and evolution of Graymouth coal field, New Zealand."

December 1, 1952. Thomas G. Perry: "The Beech Creek (Mississippian) limestone, its areal distribution, lithology and structure." - S. D. Theodosis: "Report on geological field excursion #1, held in connection with annual meeting of the Geological Society of America in November, 1952."

December 8, 1952. Prof. E. N. Goddard, Chairman, Department of Geology, University of Michigan: "New geological map of North America."

December 15, 1952. A. T. Miesch: a report on A. M. thesis - "Geology of the Socorro manganese area, Socorro County, New Mexico." Charles J. Vitaliano: "Tertiary volcanic sequence in the Basin and Range province, southwestern United States."

January 5, 1953. Prof. J. E. Canright, Botany Department, Indiana University: "A report on the results of paleobotanical research."

January 12, 1953. Dean Clark: A report on A. M. thesis, "Geology of a portion of Powell and Deer Lodge Counties, Montana."

January 19, 1953. S. G. E. Program.

Second Semester Programs

February 23, 1953. Ned M. Smith: "Geology of the Lake Michigan dunes in Indiana." - Art Friedman: "Low temperature authigenic magnetite."

March 2, 1953. Prof. Richard Foster Flint, Department of Geology, Yale University: "Research in the Pleistocene of eastern South Dakota."

March 9, 1953. Prof. A. C. MacFarlan, Chairman, Department of Geology, University of Kentucky: "Research in the stratigraphy of Kentucky."

March 16, 1953. Brian H. Mason: "Mineralogy and medicine."

March 23, 1953. S. Ross Taylor: A report of Ph. D. thesis, "Geochemical investigations of some New Zealand rocks." - Elbert Hale: A report on A.M. thesis, "A study of the frequency and amplitude characteristics of wave forms found on refraction seismograms."

March 30, 1953. Art Friedman: A report on A.M. thesis, "The petrology of the Maxville limestone." - A. J. Rudnyansky: A report on A.M. thesis, "Report on the determination of physical characteristics of Indiana coal."

April 13, 1953. Dr. Charles H. Behre, Jr., Professor of economic geology, Columbia University: "Surface clues to ore."

April 20, 1953. William J. Wayne: "Occurrence and stratigraphy of the Ohio River formation." - Arthur Pinsak: A report on A.M. thesis, "Analysis and beneficiation of sands from the Ohio River formation."

April 27, 1953. Sam Riely: A report on A.M. thesis, "The petrology of the upper and lower Block underclays of Clay, Owen, and Parke Counties."
- J. J. Galloway: "Major changes in geologic thought in the last half-century."

May 4, 1953. David G. Frey, Professor of Zoology, Indiana University: "Microfossil stratigraphy in the sediments of the Carolina Bays of North Carolina."

May 11, 1953. Kenneth Vance: A report on A.M. thesis, "Petrology of a Pennsylvanian cyclothem." - Wayne Bundy: "The geology and mineralization of the Cochite mining district, New Mexico."

May 18, 1953. Wayne M. Fowler: A report on A.M. thesis, "Pleistocene geology of Hendricks County, Indiana." - Donald Devening: A report on A.M. thesis, "Petrology of the Lower Linton sandstone."

GEOLOGICAL SURVEY ACTIVITIES

J. B. Patton

Changes in Personnel.

Harold Hutchison returned to his duties as Geologist in the Coal Section in April 1953, after 21 months of active duty with the Navy.

James T. Stanley, who was a geologist in the Coal Section until May 1952, left for employment as a petroleum geologist at Vernal, Utah, and is now located at Rawlins, Wyoming.

S. Arthur Friedman joined the Coal Section as a Geologist June 15, 1952 after completing an A. M. degree at the Ohio State University.

Charles E. Wier, Head of the Coal Section, is on leave from the Survey during the current semester to complete the course work for his doctoral degree.

Robert F. Blakely has been transferred to the position of Physicist in the Geophysics Section and his place in the Spectrographic Laboratory has been filled by T. C. Yao, who joined the Survey after employment as a chemist with Commercial Solvents Corporation at Terre Haute, Indiana.

In the Industrial Minerals Section, the position of Petrographer was set up in September 1952, and Seymour Greenberg, who had recently completed his work for the master's degree, was appointed to fill the position. He is now on leave for military service, having left in March of this year.

B. J. Worthington, who had been employed in the Clay Mineralogy Laboratory returned to his former home at Corpus Christi, Texas, in January 1953.

John M. Smith joined the section as Geologist in February 1953.

Helen Beikman left the Petroleum Section of the Survey on July 4, 1952 and joined the Washington staff of the U.S.G.S.

Dallas Fiantt, who had been a Geologist in the Petroleum Section since September 1950, left in January 1953 to join the Texas Company at New Orleans.

Thomas D. Jones, after a period of part-time employment in the Petroleum Section, joined the permanent staff in August 1952.

Alice A. O'Bryan left her position as Draftsman in the Publications Section at the end of April to return to Indianapolis.

Investigations.

The Geophysics Section has carried out extensive investigations to determine the depth and character of glacial drift and the underlying bedrock in several areas where the status of groundwater supply and the installation of artificial reservoirs required such information.

In the Industrial Minerals Section an extensive investigation for high-silica sands was carried out during the summer of 1952. Report of Progress No. 5, "Preliminary Report on High-Silica Sand in Indiana," has recently been issued, and laboratory work is continuing on the petrographic character of the sands and possible methods of beneficiation. A new investigation of clays and shales suitable for the production of light-weight aggregate has just been started.

The Glacial Geology Section has made a study of the distribution and possible origin of the Ohio River formation to supplement the work on the high-silica potentialities of the formation.

The Petroleum Section has completed well location and total depth maps of a number of additional counties around the outer rim of the Illinois Basin.

During the year, a new series of publications entitled the Circular Series was inaugurated. In addition, the "Atlas of Mineral Resources of Indiana" was begun with the issue of maps showing the locations of active sand and gravel pits and active clay and shale pits and mines.

RECENT GRADUATES IN GEOLOGY

A.B. - June 1952

Gray, Harriett Ann
Green, Don Lee
Middleton, Paul Edward

B.S. - June 1952

Brookley, Arthur Clifford
Devening, Donald Clayton
Lewis, David Van Hoff
Mahorney, James Robert
Paparazzo, Henry Joseph
Plock, Lowell Browning
Riely, Samuel Leander
Stouse, Robert Gene
Turner, Sheldon Kay
Vance, Kenneth Raymond
Worthington, Bobby Joe

A.M. - June 1952

Erickson, Wayne Albert
Thesis: The Mississippian-Pennsylvanian unconformity in Dubois
County, Indiana.

Greender, Gordon Conrad
Thesis: The origin and distribution of structures on Coals V,
VI, and VII in Knox County, Indiana.

Kline, Beryl Dale
Thesis: The Hardinsburg formation in Knox County, Indiana.

Pickering, Ranard Jackson
Thesis: An analysis of selected Indiana coals by the particle-
count method.

Renzetti, Bert Lionel
Thesis: Geology of the Scranton Mine area, Tooele County, Utah.

Sorgenfrei, Harold
Thesis: Gas production from the New Albany shale.

Ph.D. - June 1952

Waddell, Courtney
Major: Petroleum Geology

Minors: Zoology and Chemistry
Thesis: Geology and Economic resources of the Shelburn, Fairbanks, Hutton, and Pimento Quadrangles.

Wayne, William John
Major: Glacial Geology
Minors: Geomorphology and Geography
Thesis: Thickness of drift and bedrock physiography of Indiana north of the Wisconsin glacial boundary.

A.B. - September 1952

Engles, Herman Campbell
Jones, Robert LeRoy
Martindale, Richard Edward

B.S. - September 1952

Barbour, Robert Froome
Deiters, Wilbur Ralph

A.M. - September 1952

Axenfeld, Sheldon
Thesis: Geology of the North Scranton area, Tooele County, Utah.

Holloway, Perry Gregory
Thesis: A subsurface study of the Waltersburg sandstone in Gibson and Vanderbilt Counties, Indiana.

Kaska, Harold Victor
Thesis: The genus Pentremites and its species.

Olson, Victor Emanuel
Thesis: The geology of the Smedley Quadrangle, Washington County, Indiana.

Pierce, Howard Wesley
Thesis: Geologic studies of the Phosphoria formation in restricted areas, Melrose phosphate field, Montana.

Rago, Frank Thomas
Thesis: The Brassfield formation of southern Indiana.

Ph.D. - September 1952

Gravenor, Conrad Percival
Major: Glacial Geology
Minors: Mineralogy and Analytical Chemistry
Thesis: Pleistocene geology of the Peterborough and Rice Lake districts, Ontario.

B.S. - February 1953

Powell, James Franklin
Smith, John Millard

A.M. - February 1953

Clark, Dean Stanley
Thesis: Reconnaissance geology of a portion of Powell and Deer
Lodge Counties, Montana.

Greenberg, Seymour Samuel
Thesis: Zeolites and associated minerals from southern Brazil.

Heisterkamp, Warren Craig
Thesis: A subsurface study of the Borden group of rocks in Indiana.

Ph.D. - February 1953

Henderson, Eric Patrick
Major: Glacial Geology
Minors: Petrography and Analytical Geology
Thesis: Pleistocene geology of the Watino Quadrangle, Alberta.

DOCTORS OF PHILOSOPHY IN GEOLOGY GRANTED
BY INDIANA UNIVERSITY, 1913-1953

1. JESSE JAMES GALLOWAY, A.B., Indiana, 1909; A.M., 1911; Ph.D., 1913.
Professor of Geology and Paleontology, Indiana University.
2. GROVER CLEVELAND MANCE, B.S., Colgate, 1906; A.M., Indiana, 1914;
Ph.D., 1915. Consulting Geologist, Rock Hill, South Carolina.
3. HAL PLEASANT BYBEE, A.B., Indiana, 1912; A.M., 1913; Ph.D., 1915.
Geologist in charge of University Lands, and Professor of Geology,
University of Texas.
4. WILLIAM MOTIER TUCKER, A.B., Indiana, 1908; A.M., 1909; Ph.D., 1916.
Professor of Geology, Fresno State College, Fresno, California.
Retired.
5. THOMAS FRANKLIN JACKSON, A.B., Indiana, 1913; A.M., 1914; Ph.D., 1916.
Died, 1930.
6. EUIA DAVIS McEWAN, A.B., Indiana, 1913; A.M., 1914; Ph.D., 1918. Pro-
fessor of Geology, University of Nebraska. Retired.

7. CLYDE ARNETT MALOTT, A.B. Indiana, 1913; A.M., 1914; Ph.D., 1919. Professor of Geology, Indiana University, 1916-1945. Died, August 26, 1950.
8. JOHN ROBERT REEVES, A.B., Indiana, 1920; A.M., 1921; Ph.D., 1923. Manager, Vice-President, Penn-York Natural Gas Corporation, Buffalo, New York.
9. ROBERT RAKES SHROCK, A.B., Indiana, 1925; A.M., 1926; Ph.D., 1928. Professor of Geology and Chairman Department of Geology, Massachusetts Institute of Technology.
10. PARIS BUELL STOCKDALE, A.B., Indiana, 1919; A.M., 1921; Ph.D., 1930. Professor of Geology and Geography, and Head of Department, University of Tennessee.
11. GEORGE ISAAC WHITLATCH, A.B., Indiana, 1928; A.M., 1929; Ph.D., 1932. Industrial Economist, Tennessee State Planning Commission, Nashville, Tennessee.
12. GLENN GARDNER BARTLE, A.B., Indiana, 1921; A.M., 1923; Ph.D., 1932. Provost, Harpur College, State University of New York, Endicott, New York.
13. HERBERT HENRY BRADFELD, A.B., Michigan, 1925; A.M., 1926; Ph.D., Indiana, 1933. Division Geologist, The Texas Company, Dallas, Texas.
14. MARSHALL ALLEN HARRELL, A.B., Indiana, 1921; Ph.D., 1933. Consulting Geologist, San Antonio, Texas.
15. JOHN WARFIELD HUDDLE, B.S., Northwestern, 1929; Ph.D., Indiana, 1934. Geologist, Coal Division, U. S. Geological Survey, Lexington, Kentucky.
16. WILLIAM DAVID THORNBURY, A.B., Indiana, 1925; A.M., Colorado, 1928; Ph.D., Indiana, 1938. Associate Professor of Geology, Indiana University.
17. CAROLINE ELIA HEMINWAY, A.B., Mount Holyoke College, 1925; A.M., Cornell University, 1928; Ph.D., Indiana, 1941. Professor of Geology, Smith College, Northampton, Massachusetts.
18. MARION MOORE FIDLAR, A.B., Indiana, 1934; A.M., 1936; Ph.D., 1942. Chief of Exploration, Mountain Gas and Fuel Company, Rock Springs, Wyoming.
19. ORVILLE LEE BANDY, B.S., Oregon State College, 1940; M.S., 1941; Ph.D., Indiana, 1948. Associate Professor of Geology, University of

Southern California, Los Angeles, California.

20. PAUL DEAN PROCTOR, B.A., Utah, 1942; M.A. Cornell, 1943; Ph.D., Indiana, 1949. Associate Professor of Geology, Brigham Young University, Provo, Utah.
21. FRANK EDWARD KOTROWSKI, A.B., Indiana University, 1947; A.M., Indiana University 1949; Ph.D., Indiana University, 1951. Geologist, New Mexico Bureau of Mines and Mineral Resources, Socorro, N. M.
22. COURTNEY WADDELL, A.B., Indiana University, 1938; A.M., Indiana University, 1949; Ph.D., Indiana University, 1952. United Geophysical Company, Odessa, Texas.
23. WILLIAM JOHN WAYNE, A.B., Indiana University, 1943; A.M., Indiana University, 1950; Ph.D. Indiana University, 1952. Chief, Glacial Section, Indiana Geological Survey, Bloomington, Indiana.
24. CONRAD PERCIVAL GRAVENOR, B.A., Toronto University, 1949; M.A., University of Wisconsin, 1950; Ph.D., Indiana University, 1952. Lecturer, Department of Geology, University of Alberta, Edmonton, Alberta.
25. ERIC PATRICK HENDERSON, B.A.S.C., Toronto University, 1949; M.A.S., Toronto University, 1950; Ph.D., Indiana University, 1953. Geologist, Canadian Geological Survey, Ottawa, Canada.

NEWS ITEMS

Ralph E. Esarey

Wayne Erickson writes from Wichita Falls, Texas that they have a new Texan (girl, though) to raise. He says his work is cut out for him.

While at the meetings of the Rocky Mountain Section of the A.A.P.G. at Casper, I got to visit with Bill Rawles (1922), Tom Heistand, Ray Robbins, M. M. Fidler, Jim McCulloch, John Wall, Spider Heistercamp, Karl Frielinghausen, Barbara Brooks, Walter Dahmer, (Horace Miller, Virginia Warren and Walt Small - Not Alumni), and probably others I can't remember just now. That new home of Ray Robbins is one of the "show" places of Casper.

After watching a deep test in Georgia last summer, Jim Wood has a new stock of tall stories.

Harold Sorgenfrei has been employed by the Texas Company and will report to New Orleans.

Perry Holloway writes from Shreveport that he is enjoying his work with the Skelly Company. They have a new boy in the family.

John Harris is now working in the Tulsa office after spending some years at Shawnee, Oklahoma.

Joe Keyser is now "independent" and already has some good production. His office is in Midland.

John H. Hughes is Assistant Geologist with the Skelly Oil Company, located at Bismarck, North Dakota. He has charge of exploration studies in both North and South Dakota.

John Allison is editor of his father's newspaper in Mt. Carmel, Illinois.

Orville L. Bandy, Associate Professor of Geology in the University of Southern California, has just published two important papers on the ecology of Foraminifera in the March number of the Journal of Paleontology.

Joseph St. Jean, Jr. has just finished a paper on "Middle Pennsylvanian Foraminifera from Dubois County, Indiana," for the Indiana State Geological Survey, which is his Master's thesis. Joe will be research fellow next year, and continue his study of American Devonian Stromatoporoidea.

Dr. Robert E. Bates has changed his locale from Virginia Polytechnic Institute, where he has been for several years, to the Colorado Agricultural and Mechanical College, Fort Collins, Colorado.

James Bush has resigned his position as Assistant Professor of Geology in the University of Houston.

We are happy to report that Dr. H. P. Bybee, who has been geologist in charge of University Oil Lands in Texas for many years, is recovering from a serious heart attack this spring.

Dr. H. N. Coryell has retired as professor of geology at Columbia University, and will continue his work as geologist for the Pure Oil Company at New Orleans, Louisiana. He owns a 500-acre farm near Xenia, Ohio to which he expects to retire when he gets tired of geology.

Harold V. Kaska, is installing a micropaleontological laboratory for the Dominion Oil Limited, at Port-of-Spain, Trinidad. He and Mrs. Kaska are the parents of dark-haired little girl, Diane Marie, born Jan. 1, 1953.

Dan Kralis is doing well as head of the Geo-Service Company of Abilene, Texas, consulting petroleum geologists and engineers. He and Mrs. Kralis are now the parents of three children. Dan takes great interest in civic affairs and is a leader in the community.

Kenneth A. Payne, Houston, Texas, has resigned from the Tide Water Associated Oil Company, but his new connection is not known. Kenny was in charge of the I. U. Alumni luncheon in Houston, in connection with the A.A.P.G. meeting, and did a fine job.

Abdullah Shakir Sayyab, was back this year as a graduate student, supported by the Iraquian Geological Survey, studying clays, micropaleontology and petrology. He plans to stay and complete the requirements for the Master's degree, beyond which his plans are not matured.

Julian Kane is in the purchasing office of the Department of Chemical Engineering at Columbia University, where he took his Master's degree in geology. He has a new home at 7 Skylane, Levittown, New York.

John H. Wall has been at the University of Missouri the past year studying ostracods. He is going back to Canada in June, and will visit Indiana University en route.

Charles Bajza returned to the campus for his final Ph.D. exam in geography. Charley (now Doc) and Esther (Nee Esther Warner) now have three children and still live at Kingsville, Texas. Charley is Professor of Geography at Texas A. & I. College.

Dean Pennington left the New Mexico Bureau of Mines and accepted employment with the Ohio Oil Company. He will be working in the Rocky Mt. Area.

The luncheon in honor of Dr. Galloway at Houston was a complete success. J. J. was literally "walking on air" for some time afterward. He is very proud of the gold watch presented to him and the personal letters from his students. Thanks go to Kenny Payne, John Bible, W. A. Thomas, and probably others, for a splendid job of organizing. Dixie Heighway represented the University. About 32 alumni attended the luncheon.

Dr. Galloway plans to stay permanently in Bloomington and complete a study of "The Stratigraphy and Paleontology of the Harrodsburg Limestone," which he has undertaken for the Indiana State Geological Survey. He also will work on "A Classification and Description of the Genera of Stromatopoids" which is nearly ready for publication.

Charley Passell is geologist for the E. K. Burt Drilling Company at Abilene, Texas. We don't ever expect him to write in.

John Bollenbacher is a graduate student of the University of Wyoming after spending some time in Alaska helping explore the Naval petroleum reserve.

Some of the boys working in the New Orleans area are G. R. Freed, Kenneth Waters, Don Hyer, Earle Newcomer, Gene Taylor, and Dennis Lucas. We know there are others in this area and would be grateful for a letter or a post card.

Carlyle Hill died May 14, 1952 after a protracted illness from brain cancer. Mrs. Hill is now teaching music in the Bloomington school system.

Conrad Gravenor, who received his Ph.D. in glacial geology in the fall of 1952, is now a member of the faculty of the University of Alberta at Edmonton. He is teaching courses in glacial geology, geomorphology and sedimentary petrology and is finding out, to his surprise, that it takes considerable time to prepare lectures.

William J. Wayne, who received his Ph.D. in June of 1952, is now head of the glacial section of the State Geological Survey.

Those alumni who knew Dr. J. E. Switzer will regret to learn of his death on May 29, 1952 as a result of a fractured skull received from a fall from a ladder.

Dr. Paul D. Proctor has returned to Brigham Young University at Provo, Utah. The courses in Economic geology are now divided between Professors Patton and Lowell.

Warren Heisterkamp is working for the Ohio Oil Company out of Salt Lake City. He paid the department a visit during the winter and from the tan he had the outdoor life of a geologist seems to agree with him.

Eric Henderson, who obtained his Ph.D. degree in the fall of 1952 is now employed by the Canadian Geological Survey.

Rosalind Robinson received her Master's degree from Smith College in June of 1952. She is now working in Washington for the U. S. Geological Survey, along with Helen Beikman and Dick Erd.

George Erickson and Ray Parker are working toward their Ph.D. degrees in economic geology at Columbia University. George is writing a thesis on some mineral deposits in Peru and Ray is expanding the work on the Maryvale district of Utah, part of which he used for his A.M. thesis at I.U.

Dean Clark, who received his A.M. degree at the end of the fall semester, is now employed as an exploration geologist in the industrial minerals field by Phillips Petroleum Company. He attended the A.I.M.E. meetings in Los Angeles in February.

With the death of Prof. W. H. Hobbs, Dr. E. R. Cumings, former chairman of the Department of Geology at I.U., became the senior member, in point of years of membership, in the Geological Society of America. Dr. Cumings is now living at Painesville, Ohio and is in reasonably good health.

"Diz" Deane is still with Standard Oil of California but is now located at Seattle, Washington. He reports that they have some pretty fair basketball teams in that section but not as good as at I.U.

In 1951, Professor Deiss was appointed chairman of the Dimension Stone and Slate Committee of the American Institute of Mining and Metallurgical Engineers. During the past fifteen months, he has had a stimulating time talking with the managements and visiting the quarries and mills of the leading producers of granite, limestone, marble and slate in the eastern half of the United States. The job has offered an unusual opportunity to gather ideas and information which may prove useful to Indiana limestone producers.

During the meeting of the A.I.M.E. in February, in Los Angeles, a dimension stone symposium was held. The program included a paper on quarry practices in the Indiana limestone district by Richard P. Letsinger, Victor Oolitic Stone Company, Bloomington; "Dimension stone in the United States in 1952 - A Summary" by Dr. Deiss and "The petrology of the Salem limestone" by J. B. Patton.

Wes Pierce and wife are parents of an 8-pound baby boy, Matthew Forest. Wes is working toward a Ph.D. degree at the University of Arizona in Tuscon.

John Cass is working for the Texas Company at Provo, Utah.

Bert Renzetti is employed by the Anaconda Copper Mining Company. He left May 7 for Chuquicamata, Chile.

The department has acquired a new experimental seismograph which enables Dr. Mead to keep up-to-date on all the earth's quivers.

Denny Lucas is in the geophysics department of the California Company at New Orleans.

Dick Bowen is employed in the geophysics department of Standard of California at Bakersfield, California.

Jack Pickering is employed by the New Jersey Zinc Company at Sterling, New Jersey.

Those of you who knew Mrs. Wallace T. Buckley will be sorry to hear that she died of cancer the past winter.

Professor Brian Mason is leaving the department in June to become Curator of Minerals at the American Museum of Natural History. We are all very sorry to lose Brian.

IF THE NEWS ITEM SECTION APPEARS BRIEF TO YOU, IT IS BECAUSE WE HAVE NOT HEARD FROM YOU.

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