


Summer 1931

# UA66/8/3 Second Rocky Mountain Field Trip

WKU Geography & Geology

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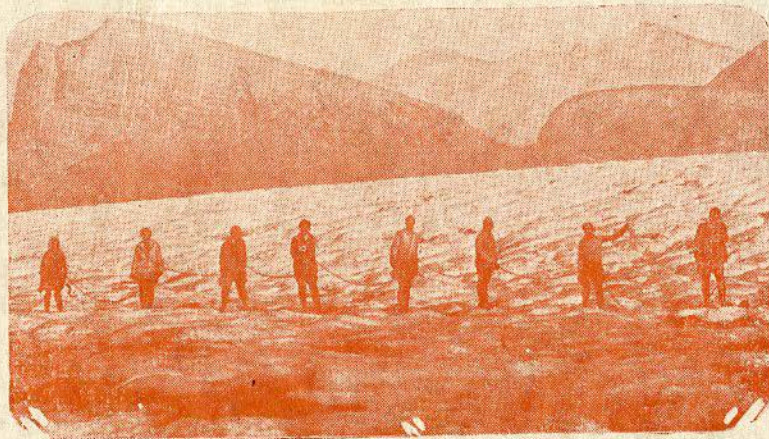
66/8

# Western Kentucky Teachers College

College Heights, Bowling Green

Henry Hardin Cherry, LL. D., President

WESTERN KENTUCKY UNIVERSITY  
ARCHIVES



*Pioneers On Grinnell Glacier, Continental Divide, Glacier National Park*

Second

## Rocky Mountain Field Trip

July 10-Aug. 30, '31

# Rocky Mountain Physiography And Flora Western Kentucky Teachers College

College Heights, Bowling Green



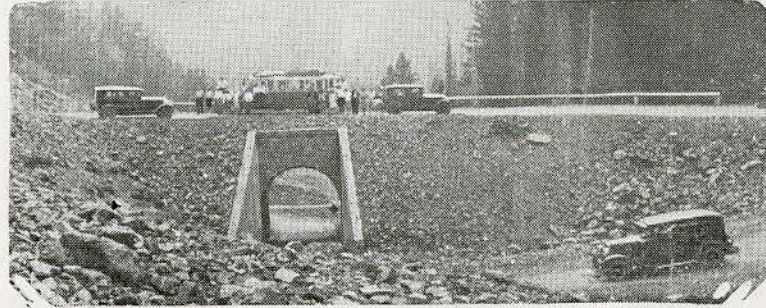
President Cherry Bids The Pioneers Godspeed, College Heights '29

## *Nature of Courses—*

The successful termination of the first Rocky Mountain Field Trip coupled with the strong endorsement of its academic worth and cultural value by the Pioneers leads the Geography and Botany Departments to schedule another for the second term of the 1931 Summer Session, July 10th-August 30th.

As before the trip be of a study-travel nature: approximately half of the seven weeks period will be taken up with travel and brief visits to outstanding points of scenic, historical, and academic interest along the route; the other half will be devoted to nature trailing and hiking excursions conducted from camp sites in the foothills to

striking physical phenomena and wild botanical gardens in the canyons, along the intermediate slopes, and on the heights. Intensive studies will be made of the geologic structure, physiographic processes, and erosive stage of exemplary surface features; and, to the identification, classification, and ecological distribution of typical species of mountain flora,—all undertaken with a view to advancing the practical training and instructional efficiency of Botany, Geography, and Nature Study teachers in this section of the country. Pursuing such a purpose in this manner amid natural wonders and scenic grandeur the ensuing advantages will not be confined to the field of pedagogical advancement but many others as suggested by the enthusiastic comments below will accrue to the prospective Mountaineer.



Spiral Bridge, Sylvan Pass Entrance, Yellowstone National Park

### *Modus Operandi and Staff—*

As outlined below the itinerary contemplates a fifty-two day trip projected seven thousand miles across the Great Plains and through the Eastern Rocky Mountains in New Mexico, Colorado, Wyoming, and Montana.

Principal L. W. Allen (B.S.; Western) of Wheatcroft will act as general manager of the caravan and precede the bus in a scout car so as to arrange for well-appointed camp sites with plunges or showers at hand.

The major part of the expedition will travel in a special de luxe motorbus of the observation type—a mode quite popular for its flexibility, comfort, cleanliness, and economy. The bus will be driven by Mr. A. V. House of Russellville who so skillfully piloted the Pioneer Trip without a single accident.

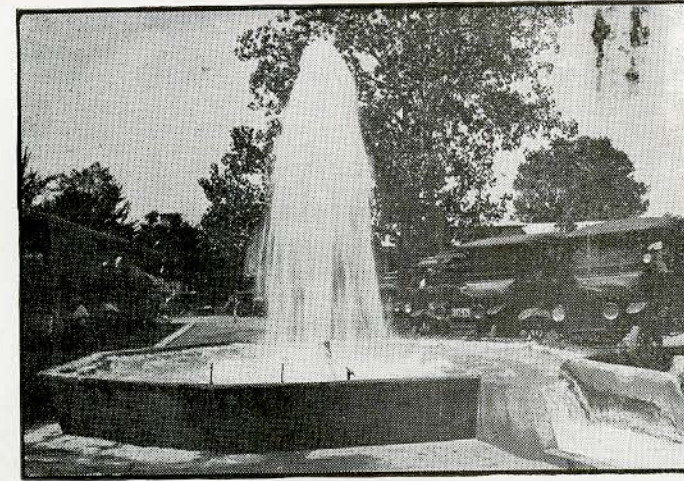
Miss Christine Wright (M.A.; Peabody), Principal of the Campus Training School at East Radford Teachers' College, Virginia, and a former Supervisor of Schools in Muhlenberg County, with handy kit and well-stocked medicine chest will undertake to care for the individual welfare of the party.

Principal Otis Harkins (A.B.; Western) of Uniontown,

assisted by Coach Ralph Horning of Sturgis, will have charge of the truck conveying the baggage and the camp equipment. With rubber poncho to exclude the ground moisture, light mattress to soften the contour of the surface, snug sleeping bag with waterproof backing, and warm enveloping blankets inside the bag, experience has demonstrated that the party will be equally at home in tents on lighted municipal tourist parks or on wind-swept prairies under the light of the western stars. About once a week an overnight stop will be made at a regular hotel for laundry, supplies, and mail.

Cooking will be done in a kitchenette mounted on a high speed truck. Miss Lenore Nesler (B.S.; Western), Instructress in Domestic Science at Marion High School, will direct this most important division assisted by Miss M. Langley Morehead of Calhoun and Miss M. Ruth Hodge of Louisville. Meals will be served cafeteria style—each member having his own mess kit as well as knapsack for carrying lunches and specimens.

During the day Mr. Horning will constitute himself general handy man about camp, one of his duties being to gather an ample supply of wood so that after supper the



The Vendome—Sulphur Artesian Well, Oklahoma

party may review the day's accomplishments and exchange stories around the camp fire circle.

With such an experienced and capable staff working early and late to serve the needs and secure the convenience of the party, its welfare will be assured and comparatively little discomfort encountered. Moreover, by synchronizing travel by bus and study by trail in accordance with the detailed itinerary below, the party will be able to annihilate distances expeditiously, locate camp at will in town and wild, acquire firsthand concepts rapidly and accurately as they move and live in Nature's own laboratories, and often mount to skyline and peak rarely attained by the average.

### *Itinerary—*

While the exact way taken, daily progress made, and particular camp site decided upon must remain subject to current weather-and-road conditions, the prevalence of paved and surfaced highways along the route selected will allow the following schedule to be generally maintained. The principal points passed through are: Bowling Green, Nashville, Memphis, Little Rock, Hot Springs, De Queen, Sulphur, Oklahoma City, Amarillo, Raton, Santa Fe, Taos, Trinidad, Alamosa, Salida, Canon City, Cripple Creek, Colorado Springs-Manitou, Denver, Boulder, Estes Park, Ft. Collins, Cherokee Park, Laramie, Cheyenne, Casper, Thermopolis, Greybull, Cody, Moran, Gallatin, Butte, Missoula, Kalispell, Belton, Waterton Lake, Glacier Park, Great Falls, Billings, Sheridan, Deadwood, Rapid City, Mitchell, Sioux Falls, La Crosse, Madison, Milwaukee, Chicago, Indianapolis, and Louisville. A day by day outline of contemplated movements, objectives, and camp sites is as follows:

**Friday July 10, Soccer Field, Peabody College 260**—Bus leaves Kentucky Hotel at six o'clock en route from Louisville at Falls-of-the-Ohio to Nashville Basin via Jackson and Dixie Highways; traversal of Outer Blue Grass, the Knobs and The Pennyroyal, ascending Muldraugh's Hill and Dripping Springs Escarpments with descent of Highland Rim Escarpment. Brief visits to Old Kentucky Home at Federal Hill, St. Joseph's Cathedral at Bardstown, Lincoln Memorial at Hodgenville, and New Entrance to Mammoth Cave via Frozen Niagara and College Heights Avenues. After brief inspection of Ft. Albert Sidney Johnston and Kentucky Building, lunch and send-off at Potter Hall, College Heights, Franklin Mineral Waters sampled and The Hermitage visited. Showers, pool, and strolls about Peabody and Vanderbilt campuses.

**Saturday July 11, Hotel Como, Hot Springs N P 445**—Sixteen hour trek from Nashville Basin across Mississippi Plateau and Mississippi River Bottoms to Hot Springs—The City of Magic Waters, with traversal of Rice Prairies. Meals at The Gorge.

**Saturday July 12, Hotel Como, Hot Springs N P, 0**—Reconnaissance study of regional physiography with ascent of Hot Springs Mountain and Reservation Tower followed by visits through Bathhouse Row. Afternoon open; evening church services; broadcast over K-T-H-S.

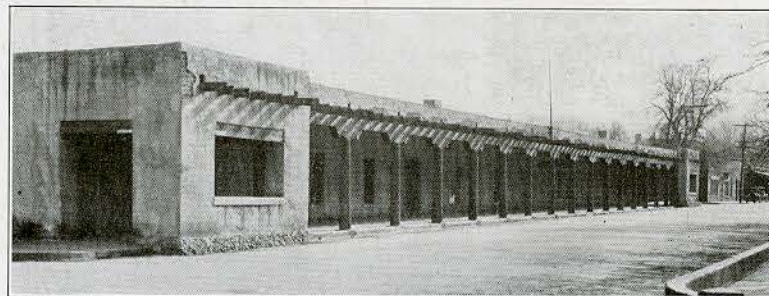
**Monday July 13, Travertine Creek Park, Platt N P 355**—Through peach orchards of Arkansas and cotton fields of Oklahoma to Sulphur—The Playground of the Southwest; traversal of lowlands separating Gulf Coastal Plain Wolds on south from slopes of folded Ouachita Mountains to the north via De Queen and Durant; Tishomingo Trail to Potato Hills; Belleview Plunge.

**Tuesday July 14, Capitol Hill Oil Field 100**—Nature Trail through Zoological Park and over Bromide Mountain with visits to medicinal springs and artesian wells; Turner Falls, crest of Arbuckles, U of O, and Seminole Oil Field observed en route to Oklahoma City; State Historical Museum visited at Capitol; broadcast over K-F-J-F.

**Wednesday July 15, Hotel Palo Duro, Amarillo 300**—Traversal of Oklahoman Redbeds and ascent of Break of Plains to Llano Estacado of Texas Panhandle; mail.

**Thursday July 16, Green & White Cottage Camp, Raton 240**—Traversal of High Plains and Las Vegas Mesa to Raton Volcanic District; ascent of Capulin Mountain—Extinct Volcanic Cone; showers.

**Friday July 17, Orchard Camp, La Villa Real de la Santa Fe de**



El Palacio De Los Gobernadores,  
La Villa Real De La Santa Fe De San Francisco

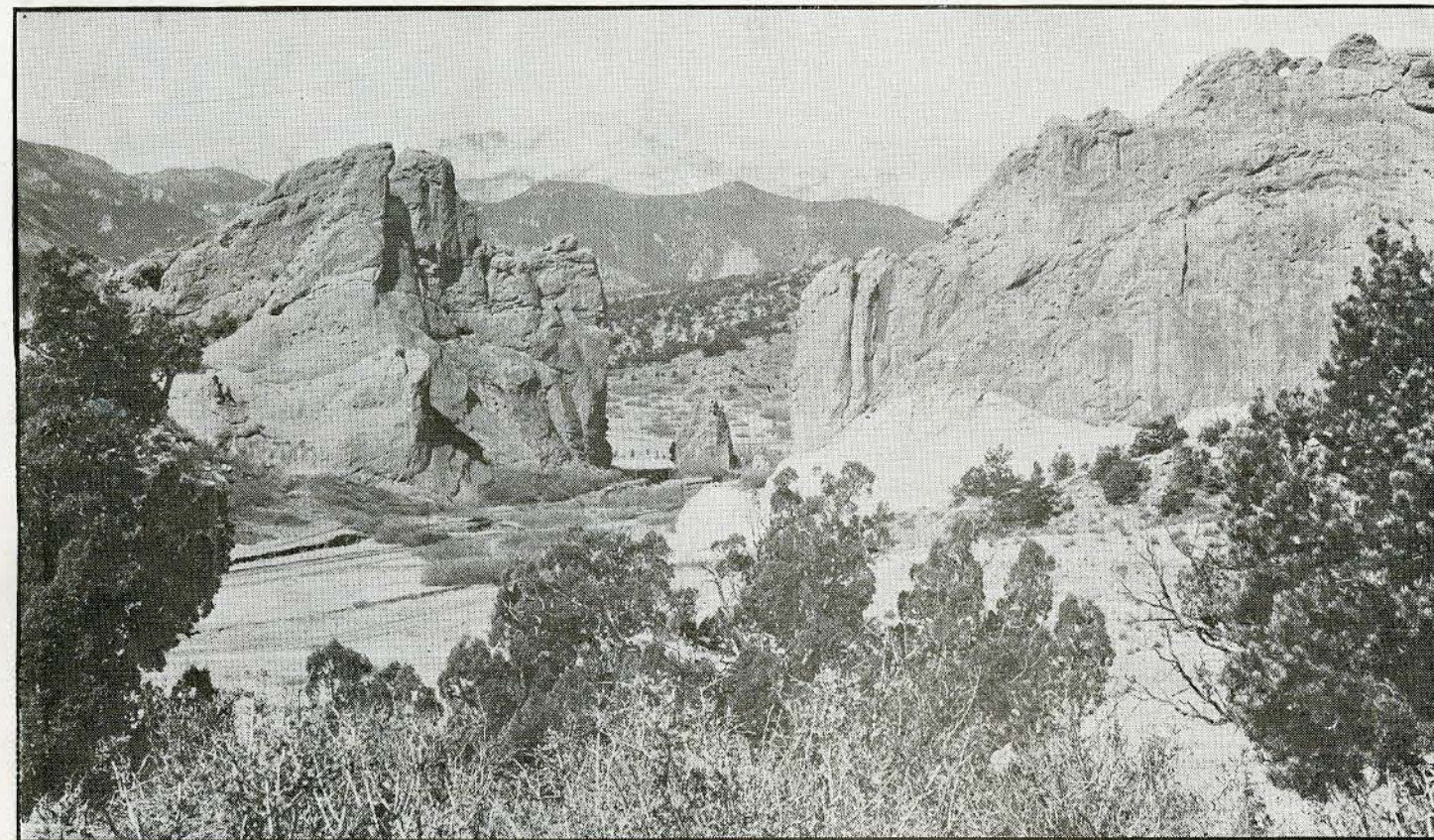
**San Francisco 200**—El Camino Real along Ocate Mesa past Wagon Mound to Old Ft. Union; lunch at New Mexican Normal University and visit to historic plaza, Las Vegas; Pecos Pueblo Ruins; Apache Canyon and Glorieta Pass; State Art Gallery and Museum of Anthropology.

**Saturday July 18, Don Fernando de Taos 100**—San Miguel Mission; St. Francis Cathedral; El Palacio; Scottish Rite Cathedral; Ft. Marcy; Artists' Colony; State Capitol and Cliff Dwellings and lunch; up Rio Grande Canyon to Ranchos y Pueblo de Taos; Harwood Foundation; Home and Grave of Kit Carson; Artist Colony; dinner at Don Fernando Hotel.

**Sunday July 19, Murray's Camp, Stonewall Country 190**—Up Taos Canyon and over Sangre de Cristo Range via Flechado Pass and Cimarron Canyon to Towndrow Peak on Johnson-Lava Capped Mesa; over Raton Pass to Trinidad with ascent of Fisher's Peak; up Purgatoire River south of Spanish Peaks; showers.

**Monday July 20, Royal Gorge of the Arkansas 250**—Around Spanish Peaks through San Isabel National Forest and over Cucharas Pass; over Culebra Range and up San Luis Park to Arkansas River via La Veta Pass, Great Sand Dunes, Alamosa, Monte Vista, and Salida.

**Tuesday July 21, Manitou Bath House 100**—Sunrise Breakfast on World's Highest Bridge; Skyline Drive—Hogback; up Phantom Canon to Cripple Creek—Gold Mining Center 10,000 Feet High; over Scenic 35-mile Corley Mountain



Entrance To The Garden-of-the-Gods With Pike's Peak—Sentinel Of The Plains, Beyond

Highway—The Trip That Bankrupts The English Language; mail, laundry.

**Wednesday July 22, Manitou 50**—Five mile trail thru Garden-of-the-Gods with study of physiographic relations of Mountain, Foot-hill, and Plain in Colorado Piedmont; optional hike up Broadmoor—Cheyenne Mt Highway to The Horns and descent into Seven Falls Canyon; Broadmoor Pool; broadcast over K-F-U-M.

**Thursday July 23, Manitou 10**—Fike's Peak or Bust with lift up Manitou Scenic Incline and visit to Fremont Forest Experiment Station en route; visit to Observation Platform on Peak and stroll along crest to point overlooking Bottomless Pit; descent by cog-line railroad; Monument Valley Park plunge.

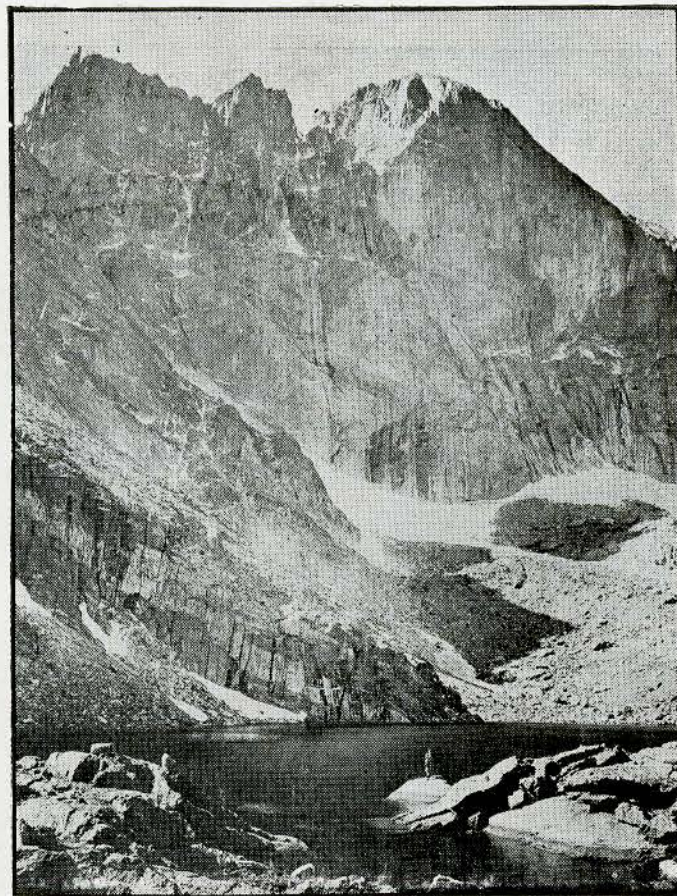
**Friday July 24, Glacier Creek, R M N P 200**—En route to Rocky Mountain National Park with visits to Monument Park, drive about Denver with visits to Colorado Museum of Natural History and Colorado State Museum at Capitol; Pahaska Tepee on Lookout Mt.; Flatirons and University of Colorado at Boulder; up the Big Thompson Canyon to Estes Park; camp on Glacier Creek in Bartholf Park.

**Saturday July 25, Glacier Creek, R M N P, 0**—Botany trail from head of Moraine Park up Big Thompson and Fern Creek to Fern, Odessa and Bear Lakes.

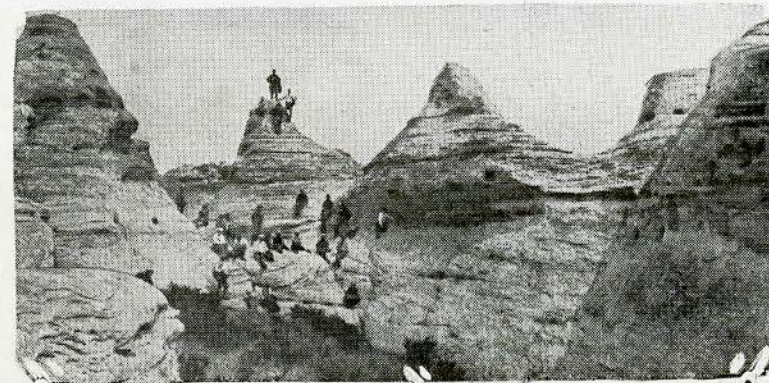
**Sunday July 26, Glacier Creek, R M N P, 0**—Flattop Trail to Services on Continental Divide with splendid views of Dream Lake and Glacial Work; return by descent into Loch Vale over Andrews Glacier.

**Monday July 27, Glacier Creek, R M N P, 30**—Alpine Creek Trail from Hewes-Kirkwood Inn to The Keyhole overlooking Glacier George with study of species peculiar to Transition, Canadian, Hudsonian and Alpine Zones; ascent of Long's Peak, involving The Shelf, Trough, Notch, Narrows and Home Stretch to Summit with Guide Shep Husted optional; after lunch at Shelter Cabin descent to Bear Lake via Boulder Creek Trail.

**Tuesday July 28, Cherokee Park Resort, North Fork Cache la Poudre 100**—Down the North St Vrain to Longmont; visit to Colorado State Agricultural College and Ft Collins Irrigation Projects under guidance of Professor Ralph Parshall; camp in Laramie Range; mountain trout fry.



Long's Peak And Chasm Lake, Rocky Mountain National Park



Wind Work In Cross-bedded Casper Formation, Upper Laramie Basin

**Wednesday July 29, Stadium, University of Wyoming, Laramie 50**—Trail's End Game Preserve; Wind Eroded Forms in Upper Laramie Basin about Chimney Rock and along Sand Creek; Dr. Aven Nelson of University of Wyoming instructing in Plains Flora; showers, mail, laundry; Rocky Mountain Herbarium.

**Thursday July 30, University of Wyoming, Laramie 90**—Visit to Medicine Bow National Forest with hike to Ranger Lookout Station on Medicine Bow Peak; Geological Museum.

**Friday July 31, Tourist Camp, Wheatland 135**—Lincoln Highway over Sherman Divide to Ames Monument; Lions Trail over Laramie Range past Pole Mts to State Museum in Capitol at Cheyenne and Frontier Days Celebration; broadcast over K-O-A at Denver.

**Saturday August 1, Thermopolis Tourist Camp, Big Horn Hot Springs 260**—En route to Yellowstone Park down the Cheyenne Basin, across the North Platte at Casper with broadcast over K-D-F-N; past Hell's Half-Acre, across Shoshone Basin and through Owl Creek Mountains by the Wind River Canyon; pool.

**Sunday August 2, Old Faithful Camp, Y N P 265**—Across the Bighorn Basin to Cody Museum; up Shoshone Canyon past

the Dam and Reservoir to Sylvan Pass over the Absaroka Range; Fishing Bridge; Canyon, Norris and Madison Junctions to Upper Geyser Basin; plunge, mail, and laundry.

**Monday August 3, Old Faithful Camp, Y N P, 0**—Upper Geyser Basin, Geyser Hill and Grand Group in morning; picture before Old Faithful at noon; Biscuit Basin, Mystic Falls on Little Firehole, and Black Sand Basin in afternoon; Bear Lecture.

**Tuesday August 4, Flying V Ranch, Gros Ventre Valley, Grand Teton N P 105**—Kepler Cascades, Isa Lake, Shoshone Point, Lewis Falls; lunch at Leek's Camp on Jackson Lake; drive through Jackson Hole via Moran, Elk and Grovont; barbecue supper.

**Wednesday August 5, Old Faithful Camp, Y N P 160**—Drive along base of Teton Range; lunch at Fishing Cone; Natural Bridge; Mud Geysers; Grand Canyon of the Yellowstone.

**Thursday August 6, Old Faithful Camp, Y N P, 0**—Optional Trip to Lower and Midway Geyser Basins; Great Fountain Geyser, Firehole Lake and Excelsior Geyser Basin; Geology Lecture.

**Friday August 7, Mammoth Hot Springs Camp, Y N P 110**—In-

spiration Point on Grand Canyon; Mt Washburn; Tower Falls; Buffalo Ranch, Specimen Ridge; pool.

**Saturday August 8, Old Faithful Camp, Y N P 60**—Mammoth Hot Springs; Gardiner Entrance; Obsidian Cliff, Roaring Mountain; Norris Geyser Basin.

**Sunday August 9, Rattlesnake Creek Camp, Missoula 315**—West Yellowstone; Gallatin Gateway; Butte and Anaconda.

**Monday August 10, Avalanche Creek Camp G N P 180**—Up the Rocky Mt. Trench past Flathead Lake to West Entrance of

Glacier Park at Belton; past Lake McDonald and up McDonald Creek.

**Tuesday August 11, Avalanche Creek Camp, G N P 45**—Transmountain Highway to Logan Pass; Hanging Gardens, Hidden Lake and Two Ocean Glacier; Garden Wall Trail to Granite Park.

**Wednesday August 12, Many Glacier Camp, G N P 150**—Up Garden Wall to Continental Divide; descent of Grinnell Colle to Glacier; descent of Glacier past Grinnell and Jose-

phine Lakes to McDermott Falls; pool, mail, and laundry.

**Thursday August 13, Many Glacier Camp, G N P, 0**—Trail up Wilbur Creek to Ptarmigan Wall and Iceberg Lake.

**Friday August 14, Many Glacier Camp, G N P, 0**—Trail up Canyon Creek to Cracker Lake below Siyeh Mountain.

**Saturday August 15, Many Glacier Camp, G N P 50**—Up Cataract Creek past Morning Eagle Falls to Piegan and Siyeh Passes; Sexton Glacier; down Baring Creek to Going-to-the-Sun Chalets; launch ride down Upper St. Mary Lake.

**Sunday August 16, Many Glacier Camp, G N P 150**—Optional trip to Mormon Tabernacle at Cardston and Prince of Wales Hotel at Waterton Lake.

**Monday August 17, Cut Bank Camp, G N P 50**—Bus to St. Mary Chalets; launch to Red Eagle Landing; Hudson Bay Creek to Triple Divide Peak; Atlantic Creek to Cut Bank River.

**Thursday August 18, Two Medicine Camp, G N P 30**—Up North Fork to Cut Bank Pass and down Dry Fork past Rising Wolf Mt. to Two Medicine Lake.

**Wednesday August 19, Great Falls Tourist Camp 160**—To Lower Two Medicine Lake with visit to Trick Falls; through Blackfoot Indian Reservation; past Sun Irrigation Project; Rainbow Fall; showers; The Mint; broadcast over K-F-B-B.

**Thursday August 20, Custer Battlefield, Little Bighorn 325**—East between Highwood and Little Belt Mts. through Judith Basin to Grassrange, south to Little Bighorn via Roundup, Billings and Hardin.

**Friday August 21, Pine Crest Tourist Camp, Deadwood, Black Hills 350**—East of the Big Horns across the Powder River Basin to the Devils Tower; Spearfish State Teachers College; showers.

**Saturday August 22, Rapid City Municipal Tourist Camp, Rapid Creek 150**—Panoramic view of Black Hills from top of Roosevelt Mounment; visit to Mt. Moriah with Deadwood Dick Clark; Homestake Mine at Lead; Needles Road, Custer Historic Sites; State Game Lodge; Museum South Dakota State School of Mines; showers, mail.

**Saturday August 23, Mitchell Municipal Tourist Camp, Hitchcock Park 335**—En route through The Badlands and across the High Plains and Coteau du Missouri to Corn Palace.

**Monday August 24, Tourist Camp, Albert Lea 270**—Grazing and

Grain Country of South Dakota and Minnesota; broadcast over K-S-O-O.

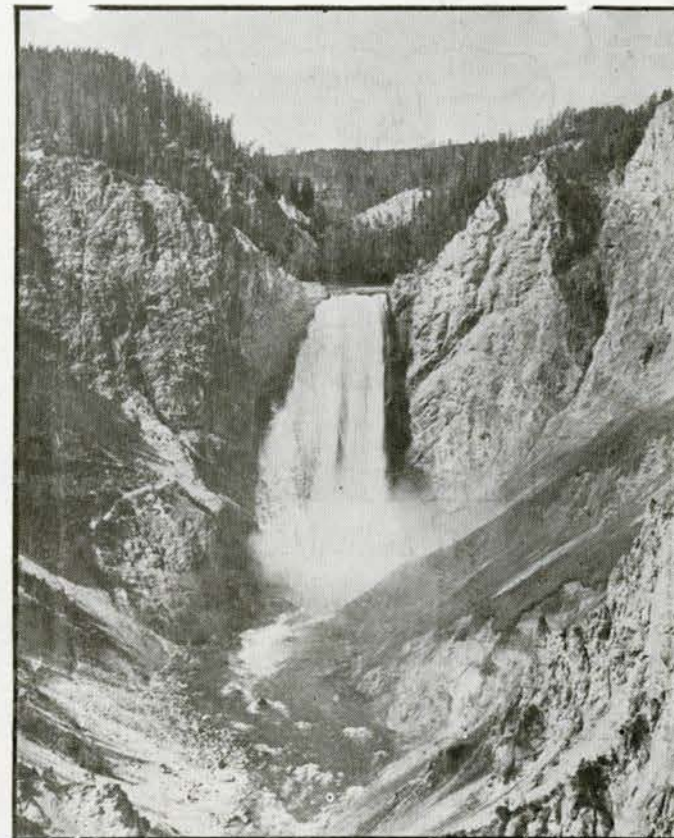
**Tuesday August 25, University of Wisconsin Drive, Lake Mendota, Madison 280**—Over the Mississippi at La Crosse to



Pahaska—The Scout, Cody, Wyoming

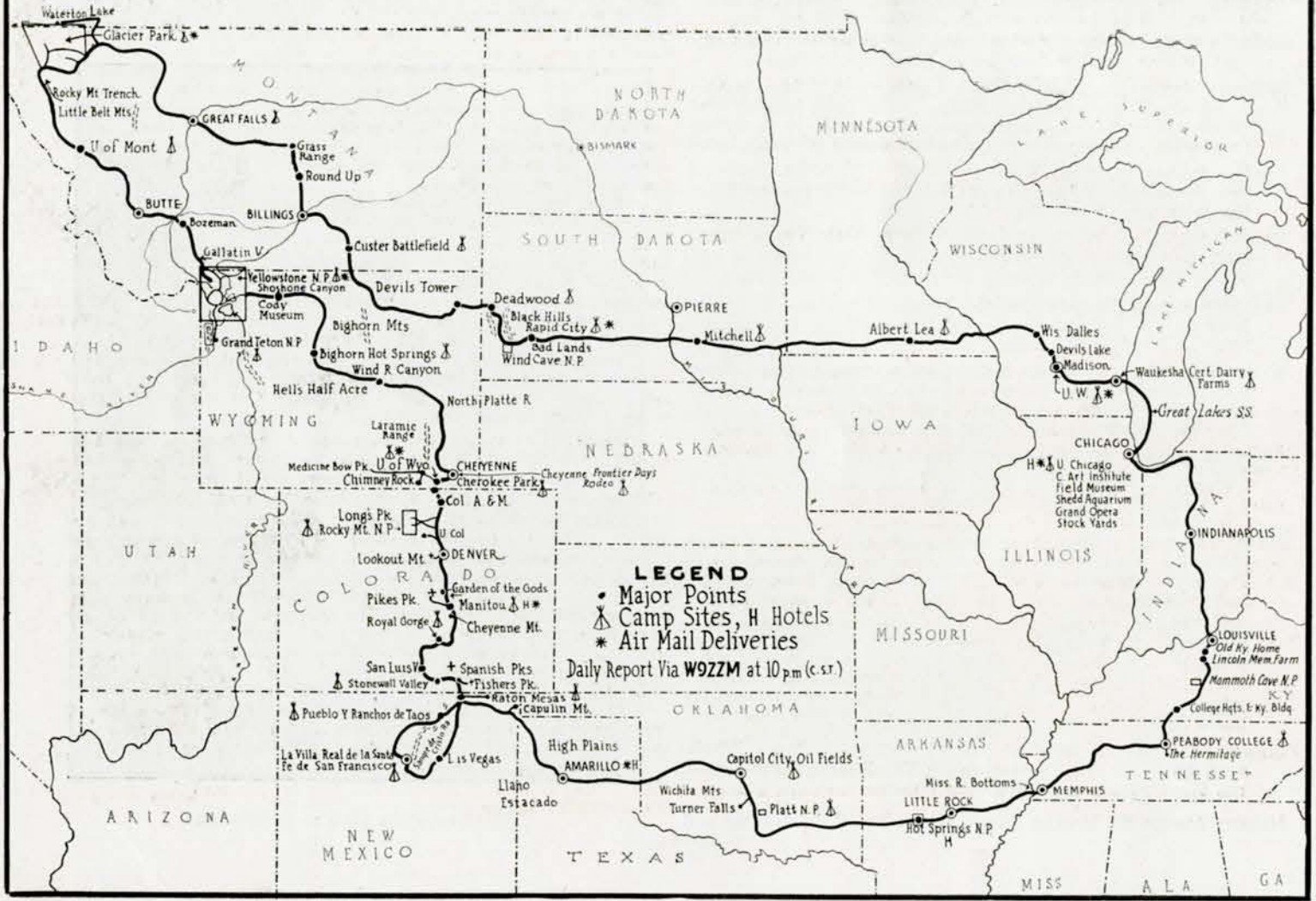
Cornelia Gillenwater  
Elizabeth Warner  
Iardella Lynch  
Valeria Wright  
Lillian Jones  
Elizabeth Berry  
Mabelle Rhoads  
Wm. Wigginton  
Mary Burton Bennett

Fred Edwards  
Ralph Horning  
R. H. Denniston  
Flora Rhoads  
Flossie Mason  
Elta Davis  
Mary Morgan  
Blanche Sprague



The Great Falls Of The Yellowstone

# Route of the KY. Rocky Mt. Field Trip, W.K.S.T.C. Bowling Green



the Wisconsin Dalles and Devils Lake; camp beside Adams and Tripp Halls; showers, mail.

Wednesday August 26, Smith's Tourist Camp, Waukesha 75—Visit to U W, prize dairy herds at Masonic Home, Brookfield Farm, and Seitz Farms about Waukesha; showers; broadcast over W-T-M-J.

Thursday August 27, Morrison Hotel, Chicago 115—Great Lakes Steamship from Milwaukee River to Navy Pier, Chicago; mail.

Friday August 28, Campus, University of Chicago 0—Chicago Art Institute, Field Museum and Shedd Aquarium.

Saturday August 29, Campus, University of Chicago, 0—University of Chicago; afternoon open.

Sunday August 30, Rendezvous, Six O'clock, Ship Room, Kentucky Hotel, Louisville, 320.

## Pioneer Appreciations—

"It has been a grand and glorious trip,—the longer I am home the more I appreciate it; I am already anticipating a reunion." KATHERINE H. ALTES, Cochran School, Louisville.

"It was a marvelous, marvelous trip and I thoroly enjoyed every bit of it." MARY BURTON BENNET, Henderson.

"I enjoyed every minute of the trip and am ready to start on another such trip right now." ELIZABETH A. BERRY, Uniontown.

"I might say that I never hope to have a greater time than I had on the trip." OTIS HARKINS, Uniontown.

"I thoroly appreciated the greatest trip I ever expect to take. When I think of that wonderful crowd of teachers composing our party, of their fineness, cheerfulness, friendliness and extreme kindness, I know myself to be truly fortunate to have met them and been associated with them for seven weeks. I realize that the value of the trip will increase as the years pass; that I can use the knowledge gained and the things I learned everyday; that my teaching is going to be better and my plans bigger (for already I have two projects started from ideas gained this summer); and, that when age makes similar activities impossible I shall never grow tired of dreaming myself back in the Rockies again with the Pioneers." MARY R. Hodge, Foster School, Louisville.

"I wish we were back in the Far West again; I can't enjoy a stuffy room and bed anymore,—much prefer the open air and my sleeping bag." IARDELLA A. LYNCH, Covington.

"I'm sure no one regrets taking the trip; I, for one, thoroly enjoyed it more than anything I ever did and hope to go again some time." MARGUERITE WINSTEAD, Macisonville.

"Have certainly enjoyed the Ky. Rocky Mt. Field Trip. We returned to Kentucky after a perfect six and one-half weeks tour of seeing as much as Mr. Wood could possibly arrange for us to see. I feel it is the greatest opportunity ever offered by Western. The whole crowd were as fine as could be, our food was excellent, and experiences the greatest one can have. We saw so much more than the ordinary traveler and for so much less. Am afraid Mr. Wood will never realize what it actually meant to us or how we all appreciate it." ELTA DAVIS, Johnson School, Ft. Thomas.

"I enjoyed it worlds and shall never regret having taken it." KATHRYN MELTON, Corinth.

"I hope you see fit to go again for it is a wonderful trip and will mean so much to the students. This is the fifth week of school and every day so far I have used something I saw and learned on the trip—I wouldn't take anything for our mountaineering experiences for now they are the outstanding memories of the course." MARY H. MORGAN, Central City.

"Had such a good time on the trip that I do not regret the outlay the least bit; hope you and the people next year have just as good a time as we did." MAYBELLE H. RHOADS, Beaver Dam High School, Beaver Dam.

"Really, I wish I could wake up in the morning and find myself with the whole bunch ready for a hike somewhere out West. I sure do miss those good times and think of the mountaineers often." FLORA ROSS RHOADS, Hartford.

"Could not make them believe that we had taken in all we did . . . E. D. came for a short visit Sunday afternoon—she certainly looked well and her brother was so pleased that she had gained ten pounds on the trip . . . was glad to tell them our seven weeks was most enjoyable from start to finish—just getting tired was no hardship. The things we did and the things we saw are constantly before me and I shall always remember that study trip as being one of the most pleasant and wonderfully educational in my experience." MRS. WILLELLA LEI: SPROWL, Jeffersontown.

"Making this study has been a review of the most pleasant trip I ever took and everybody thinks I had the most wonderful tour ever described." VERA WILLIAMSON, Thorpe, W. Va.

"Let me say again that I really enjoyed the trip and feel that it has been very profitable to me in many ways." WM. J. WIGGINTON, Rumsey.



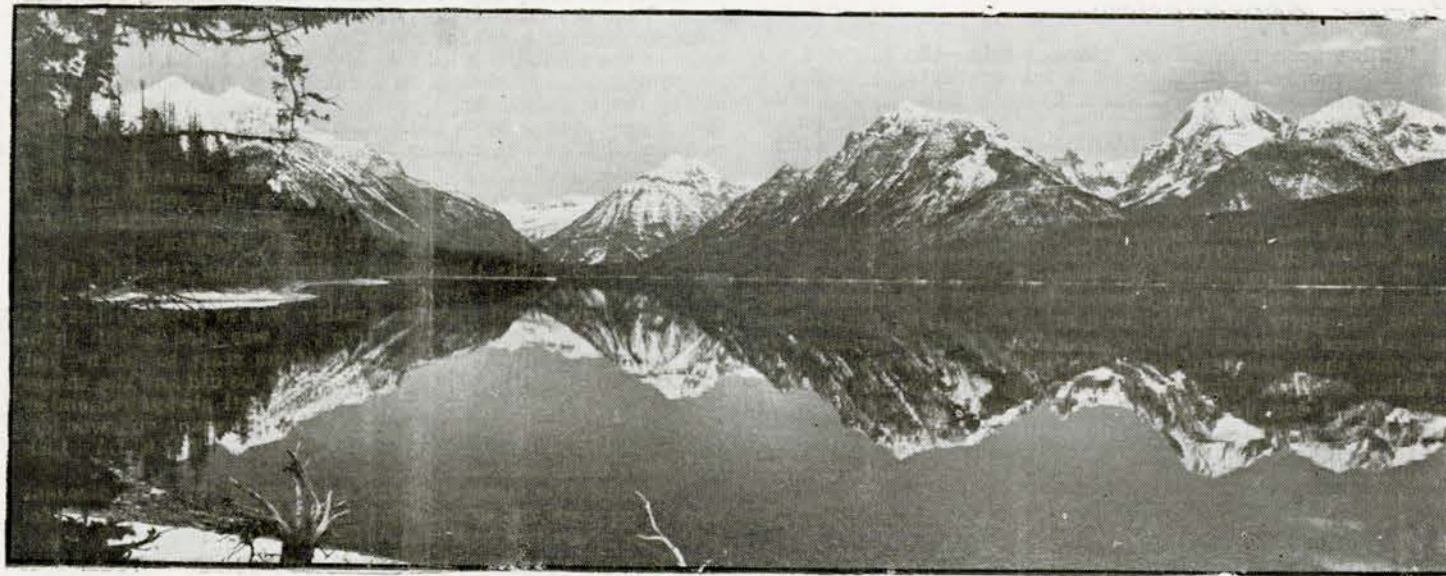
## Qualifications, Cost, and Credits—

The size of the party will be limited to forty student-teachers of Senior College Standing and known social compatibility who have had a college course in either Physical Geography (Geography 111) or in Systematic Botany (Botany 1)—preferably both. Only those with a bent for roughing it out-of-doors and with good physique as well as strong heart action should consider a long trip of this nature with the strenuous traveling and hiking that the itinerary calls for.

The total cost of the trip has been set at \$300, considerably less than a pullman-hotel-bus tour of equal dis-

tance and duration. With the exception of laundry, which may be estimated at \$15, this amount is to defray all charges such as tuition, textual materials, transportation, meals, lodging, health and accident insurance, and the usual concession and amusement fees encountered in traveling through these regions. A deposit of \$100 must accompany registration, with the balance due June 1st. If a change of plans is found necessary, one hundred per cent of the money advanced will always be refunded upon demand. Tentative reservations may be made at any time and formal registration after February 1st.

Five to seven hours of senior college residence credit in natural (laboratory) science may be earned; five in



McDonald—Fingerlake, Glacier National Park

Geography 317, *Rocky Mountain Physiography*, and two in Botany 204, *Rocky Mountain Flora*, or vice versa, depending upon the prerequisite met. Two hours in either course will be accorded for proper execution of the preliminary exercises and suitable notes on the field studies; five hours in either course will be accorded for proper execution of the preliminary exercises and a satisfactory report on the field studies as a whole submitted not later than January 15th following.

Dr. R. H. Denniston, Professor of Botany in the University of Wisconsin, instructed in Botany on the Pioneer Trip; in case he should not accompany the second trip, Dr. M. C. Ford, Head of the Ogden School of Science at Western, will conduct this work; Mr. George E. Wood, Head of the Department of Geography And Geology at Western, will have charge of the work in Physiography.

## References And Studies—

Before starting on the trip members of the party will be expected to have read the references (r) and the studies (s) listed below. Numbers 1, 2, and 6 are general works cited for those who find it desirable to review elementary physiographic and botanical concepts. Salient points among these and the others concerning the geography and flora of the regions, districts, and features to be visited should be noted and assembled for use in connection with the study assignments to be issued later in mimeograph form. The references (r) are obtainable for a fortnight upon application to Miss Margie Helm, Librarian, W. K. S. T. C., and enclosure of ten cents in stamps to defray postage. The study sources (s) amounting to \$15.00 in value will be supplied individually upon registration. The references and study materials selected are designed to acquaint the student with the general physiographic and ecologic conditions existing in the localities to be visited

and to provide him with a sufficient background of technical knowledge to pursue field investigations in an intelligent and appreciative manner—they are by no means exhaustive in their treatment of the regions and problems involved and a more extended bibliography on the different regions may be had upon request.

### General

- |  |   |
|--|---|
| 1 r Pirsson — Physical Geology.                      | 6 r Martin — Botany With Agricultural Applications.                   |
| 2 r Hobbs — Earth Features And Their Meaning.        | 7 s Shantz & Zon — Natural Vegetation, Atlas Of American Agriculture. |
| 3 s Lobeck — Panorama Of Physiographic Types         | 8 s Nelson — Botany of Central Rocky Mt. States.                      |
| 4 s Lobeck — Physiographic Map Of The United States. |   |
| 5 r Esson & Philip — Map                             |   |

### Hot Springs, Sulphur, And Llano Estacado

- |   |   |
|---|---|
| 9 s Fenneman — Physiographic Divisions Of The United States : Central Lowland, Great Plains-Southern Sections, and Ouachita Province.                 | 12 r Furdue & Miser — Hot Springs Folio, United States Geological Survey.   |
| 10 r Fenneman — Forest Physiography Of The United States : Ch. XXIII Arkansas Valley, Arbuckle Mountains, and Edwards Plateau; Ch. XXII Great Plains. | 13 s National Park Service — Hot Springs National Park.                     |
| 11 s Lobeck — Physiographic Diagram Of The United States : Sections 8, 9, 10, 11.   | 14 r Taff — The Arbuckle And Wichita Mountains, Oklahoma Geological Survey. |
|   | 15 s Reeds — The Arbuckle Mountains, Oklahoma, etc.; Oklahoma Geol. Sur.    |
|   | 16 s N. P. S. — Platt National Park.  |
|   | 17 r Smith — North America: Ch. XXIII The Great Plains.                     |

### Raton Section

- |  |   |
|--|---|
| 10 r Fenneman — Forest Physiography : Ch. XXI Volcanic Mountains And Plateaus. | ern Intermountain Plateaus, Parts I and II.             |
| 17 r Smith — North America: Ch. XXVI Arid Southwest-                           | 18 s Lee-Raton — Brilliant — Koehler Folio, U. S. G. S. |

Colorado Springs, Estes Park, And Wyoming Basin

- 9 s Fenneman — Physiographic Divisions : Southern Rocky Mountains.
- 11 s Lobeck — Physiographic Diagram : Section 13.
- 10 r Fenneman — Forest Physiography : Ch. XX Southern Rockies-Eastern Foot-hills, Front Range, Sangre de Cristo Range, San Juan Mountains, and, Parks Of The Southern Rockies.
- 18 r Finlay—Colorado Springs Folio, U. S. Geol. Sur.
- 19 s U. S. G. S. — Manitou Quadrangle.
- 20 s Lee—The Geologic Story Of Rocky Mt. Nat. Park.
- 21 r Mills—The Rocky Mountain National Park.
- 22 s N. P. S. — The Rocky Mountain National Park.
- 17 r Smith — North America: Ch. XXV The Rocky Mts.
- 23 r Darton, Blackwelder & Siebenthal — Laramie-Sherman Folio, U. S. G. S.
- 24 s U. S. G. S. — Medicine Bow, Laramie, and Sherman Quadrangles.
- 9 s Fenneman — Physiographic Divisions : Wyoming Basin.
- 10 r Fenneman — Forest Physiography : Central Rockies - Laramie Mountains, Medicine Bow Range, Basin Plains Of Southern Wyoming, etc., and the Bighorn Mountains.

The Yellowstone And Jackson Hole

- 9 s Fenneman — Physiographic Divisions : Middle Rocky Mountains.
- 10 r Fenneman — Forest Physiography : Cent. Rockies.
- 25 s Top. Map Y. N. P.
- 26 s Hague — The Geological History Of Yellowstone National Park.
- 28 s Knowlton — Fossil Forests Of The Y. N. P.
- 29 s Hawkins — Trees And Shrubs Of The Y. N. P.
- 30 r Chittenden — The Yellowstone National Park.
- 31 s N. P. S. — Y. N. P.
- 32 s N. P. S. — Grand Teton National Park.
- 33 s Haynes — New Guide Of Yellowstone National Park.



Old Faithful, Y. N. P.

Glacier Park And The Black Hills

- 9 s Fenneman — Physiographic Divisions : Northern Rocky Mountains.
- 11 s Lobeck — Physiographic Diagram : Section 12.
- 10 s Fenneman — Forest Physiography : Northern Rockies.
- 34 s U. S. G. S. — Topographic Map Of Glacier N. P.
- 35 s Campbell — The Origin Of The Scenic Features Of Glacier National Park.
- 36 s Standley — Plants Of Glacier National Park.
- 37 s Elrod — Guide And Information Book Of Glacier National Park.
- 38 s N. P. S. — Glacier National Park.
- 39 r Darton & Paige — Central Black Hills Folio, United States Geol. Sur.
- 40 s N. P. S. — Wind Cave National Park.
- 17 r Smith — North America: Chs. XV-XXI, Spring Wheat Region, North Central Dairy Region, Upper Lake Region, Lower Lake Region, Corn Belt, Winter Wheat Region, and Ohio Valley.

General Literature—

Nothing is truer than the common saying that travel is part of education; equally true is the verdict that one gains thereby in accordance with the mental and spiritual background carried with which to interpret and appreciate the new and strange. Therefore, to enjoy the trip and benefit from it to maximum advantage, it behooves all prospective mountaineers to seize every opportunity to execute the preliminary studies at an early date and settle down to a schedule of planned, interesting, and profitable readings on the regions mentioned in the itinerary. To satisfy this need a considerable number of good works on travel, history, commerce, fiction, and biography dealing with the West has been assembled by the College Library and placed on special reserve. For example, number 1 comprises the first authentic account of the prairies of north central Oklahoma; 3 is a treasure mine of early history and trade in the Plains Regions; 7, 31, and 36 deal with three outstanding trail blazers whose lives were intimately associated with the discovery, con-

quest, and settlement of the West; 18 and 21 introduce you to the call of the mountains and thrill of surmounting peak and divide; 19 provides an epic lesson in nature study that grips your soul; 34 is an entertaining supplement to such a scholarly and interpretative work as 32; 46 will save you much embarrassment as a sagebrusher, etc. Registrants (a list of tentative reservationists has been furnished the Librarian so that they may avail themselves of this opportunity during the fall semester) may borrow these for a fortnight upon application to Miss Margie Helm, Librarian, and enclosure of ten cents in stamps to defray postage.

Oklahoma And New Mexico

- 1 t Irving — A Tour Of The Prairies.
- 2 h Inman — The Old Santa Fe Trail.
- 3 c Gregg — Commerce Of The Prairies.
- 4 f Hough — North Of 36.
- 5 f Mulkus — Caravans To Santa Fe.
- 6 b Grant — Kit Carson's Own Story Of His Life, etc.
- 7 b Vestal — Kit Carson, The Happy Warrior Of The Old West.
- 8 f Vestal — 'Dobe Walls.
- 9 t Grant — Taos Today.
- 10 t Saunders — Finding The Worth While In The Southwest.
- 11 t Saunders — Indians Of The Terraced Houses.
- 12 t Coolidge — Rainmakers—Indians Of Arizona And New Mexico.
- 13 t Bandelier — The Delight Makers.
- 14 f Cather — Death Comes For The Archbishop.
- 15 f Grey — The Vanishing American.

The Colorado Rockies

- 16 n Van Dyke — The Mountain.
- 17 n Mills — The Rocky Mountain Wonderland.
- 18 n Mills — The Spell Of The Rockies.
- 19 n Mills — The Story Of A Thousand-Year Pine,
- 20 n Mills — Wild Life On The Rockies.
- 21 n Toll — Mountaineering In The Rocky Mountain National Park.
- 22 n Mills — Adventures Of A Nature Guide,

- 23 n Mills — The Story Of Scotch.
- 24 n Mills — Waiting In The Wilderness.
- 25 n Mills — Wild Animal Homesteads.
- 26 n Mills — In Beaver World.
- 27 n Mills — The Grizzly, Our Greatest Wild Animal.
- 28 f Harte — The Luck Of Roaring Camp.

Wyoming And Montana

- 29 f Hough — The Magnificent Adventure.
- 30 c Chittenden — The American Fur Trade Of The Far West.
- 31 b Alter — James Bridger.
- 32 h Ghent — The Road To Oregon.
- 33 h Hebard & Brininstool — The Bozeman Trail.
- 34 f Hough — The Covered Wagon.
- 35 h Paxson — The Last American Frontiers.
- 36 b Cody—Buffalo Bill's Life Story.
- 37 f Wister — The Virginian.
- 38 f Wister — When West Was West.
- 39 b Nye — Bill Nye, His Own Life Story.

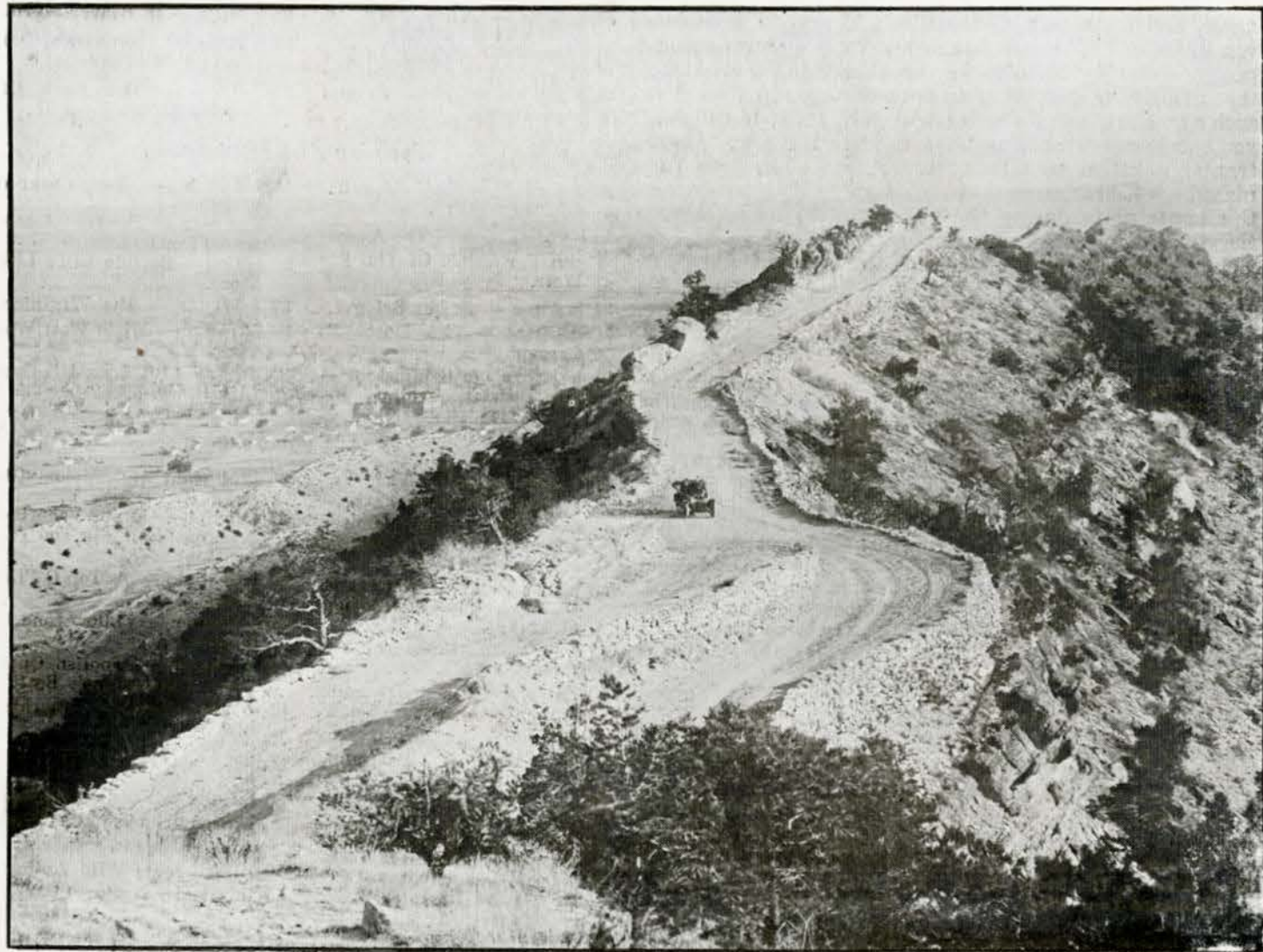
The Yellowstone

- 41 t Chittenden — The Yellowstone National Park.
- 42 b Vinton — John Colter, Discoverer Of Yellowstone National Park, Etc.
- 43 h Langford — Discovery Of Of The Yellowstone National Park.
- 44 t Freeman—Down The Yellowstone Park.
- 45 t Burroughs — Tramping And Fishing With Roosevelt.
- 46 t Albright And Taylor—Oh, Ranger!
- 47 t Hough — Maw's Vacation, A Human Being In The Yellowstone.
- 48 f Chapple — A Top Of The World.
- 49 f Brewer — Yellowstone In Jinglestone.
- 50 f Chaney — Foolish Questions, Yellowstone's Best.
- 51 f Van Tassell — Truthful Lies.

Glacier Park

- 52 f Rinehart — Through Glacier National Park.
- 53 f Schultz—Blackfeet Tales Of Glacier National Park.
- 54 t Laut — Enchanted Trails Of Glacier Park.
- 55 t Holtz & Bemis — Glacier National Park, Its Trails And Treasures.
- 56 n Bailey — Wild Animals Of Glacier National Park.

*Fisher - Cimarron  
Fargo - Laughing Boy.*



Skyline Drive—Hogback, Canon City, Colorado

Mabelle Rhoads  
Flossie Mason  
Flora Rhoads  
Elizabeth Berry



Frank Brown  
Elizabeth Warner  
Kathryn Meltor  
Guide Leo Seethaler

Pioneers On Grinnell Glacier, Continental Divide, G. N. P.

### *Clothing Suggestions—*

Care should be taken to carry only such articles as are necessary and not easily ruined. Dresses on a trip of this sort are taboo and for hot weather travel school uniforms of light material will be worn by everybody. In general, rough and serviceable articles insuring efficiency on the trail and comfort about camp under spring climatic conditions should be stocked. Occasional grief perhaps may be avoided if the following suggestions are rather closely adhered to: four suits of linen or silk underwear; four pair of fine wool socks; two pair of short or long coarse hose; one pair of boots (low-tops preferred) with low rubber heels, moccasin toe, and waterproof finish, or, one pair of stout hiking shoes with low heels and heavy soles with a pair of canvas leggings (hiking boots or shoes should be extra wide to allow for foot expansion on long hikes and

the wearing of two or three pair of socks); one pair of sport shoes or oxfords for traveling; one or two pair of old shoes or substantial slippers for relaxation about camp; one khaki shirt and riding breeches (long length if low-top boots are worn; one heavy flannel or wool shirt and riding breeches to match; two pair of cotton gloves; a light jacket or mackinaw for windy height and rainy day; one old felt hat; one waterproof slicker cut to allow free striding; one walking stick; pencil clip and handy notebook of convenient size; one heavy blanket; several towels and wash cloths; and toilet articles. Desirable additional articles to pack are: Diary; flashlight; metal soap container and tooth brush holder; tooth powder in preference to paste; kodak; scout knife; and field glasses.

## Mail—

Mail should be addressed % *Ky. Rocky Mt. Field Trip* in accordance with the schedule below. Members of the party will ordinarily dispatch missives via air mail, and if they instruct their correspondents to follow the same practice, from two to three times as much mail will be received on the trip as will be the case if railway mail is used.

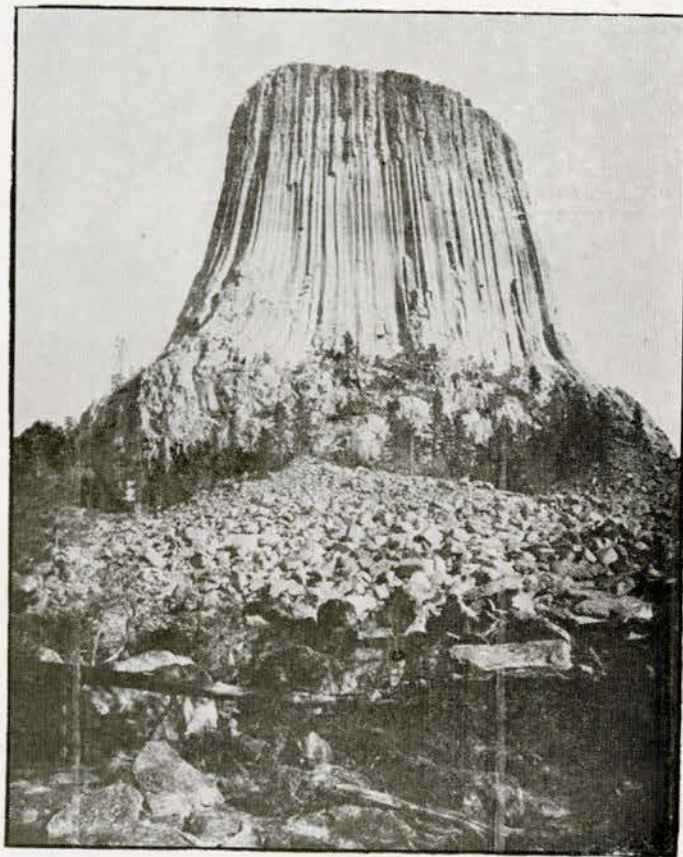
To Arrive By	At	Mail Via Air By <sup>r</sup>
July 10	College Hgts. Sta., Bowling Green, Ky.	July 9 <sup>r</sup>
July 15	Hotel Palo Duro, Amarillo, Texas	July 13
July 23	Manitou Bath House, Manitou, Colorado	July 20
July 29	University Of Wyoming, Laramie, Wyo.	July 26
Aug. 8	Old Faithful Sta., Yellowstone Park, Wyo.	Aug. 5
Aug. 17	Many Glacier Camp, Glacier Park, Mt.	Aug. 14
Aug. 22	Rapid Creek Camp, Rapid City, S. D.	Aug. 19
Aug. 25	University of Wisconsin, Madison, Wis.	Aug. 24
Aug. 29	University of Chicago, Chicago, Ill.	Aug. 28
Aug. 30	Kentucky Hotel, Louisville, Kentucky	Aug. 29 <sup>r</sup>

\* By 1 P.M. at Bowling Green or Louisville; r Railway Mail.

## Baggage—

Each member of the party will be allowed two *suitcases* of baggage: one containing study materials and trail effects to be carried on the bus, and one containing supplies to be carried on the truck. Old rather than new ones should be taken and their dimensions should not exceed 28x14x9. A utility bag just large enough to hold toilet articles will come in handy for the rapid morning

shave or brief wash-up. Room will be found for any musical instruments which individuals may care to take along for enlivening the camp fire circle.



Mato Tepee—Laccolithic Column, Wyoming



Mt. Gould, The Garden Wall, Grinnell Glacier, And Lake Josephine, Glacier National Park

# Kentucky Rocky Mountain Field Trip

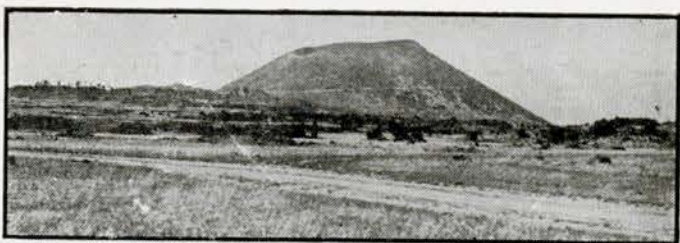
West. High State Teachers College  
College Heights Station  
Bowling Green, Ky



Pruden Cary, Eds. The Pioneer College, College Heights, Ky.

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And  
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- Frank Egan**  
Glacier
- Miss Egan**



Capulin Mt.—Extinct Volcanic Cone, New Mexico

Katherine Friz of Covington, Ohio, Mary Ann Ledwidge of Jenkins, Nannie Sue Beane of Colquitt, Georgia, Pauline Thompson of Fulton, De Loche McReynolds of Russellville, M. Marvin Cole of Sinai, Marvin Crider and Escom Chandler of Paintsville, W. L. Owen and Evan Howell of Horse Branch, Hobart Wright of Rose Hill, Golia E. Rather of Trammel, Forest Duncan of Russellville, Chas. W. Lakin of Chicago, George L. Stith of Nortonville, Ormond R. Tilford of Short Creek, Winfrey Cole of Morton's Gap, David L. Williams of West Point, Carlos Oakley of Marion, and Hobart Hines of Hardinsburg.

As preliminary studies necessitate advance registration, early correspondence is invited. For further information, address—

## Rocky Mountain Field Trip

College Heights Station, W. K. S. T. C.

Bowling Green, Kentucky

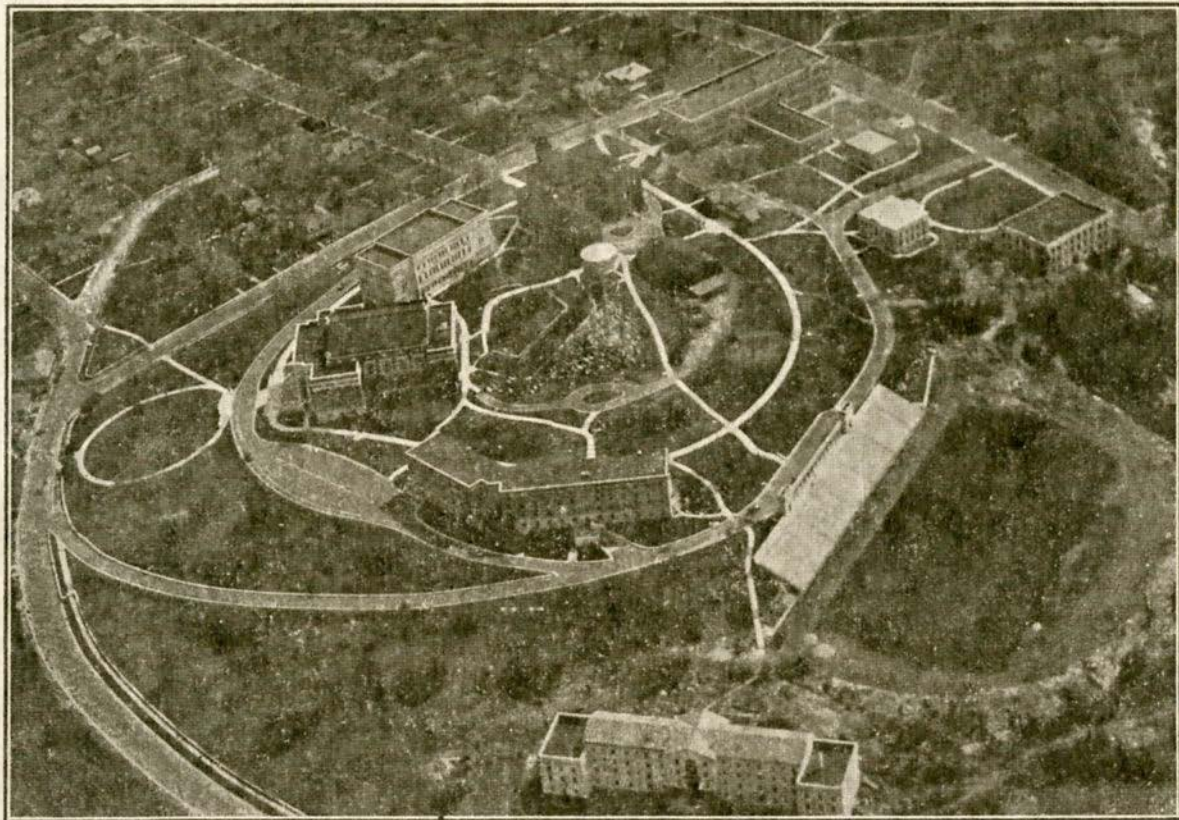
## Radiograms and Emergency Messages—

Mr. T. Neal McGown, operator of Station W9FZL at Bowling Green, by means of the party's licensed Radio Station W-9-Z-Z-M will forward a daily report at 10 P. M. Central Standard Time, of the party's activities, progress, and state to Mr. Lawrence Weldy, operator of Station W-9-B-G-X at 1345 Chestnut Street, Bowling Green, Phone 1565-J. Mr. Weldy will transmit a copy of the report each morning to the Bulletin Board in Potter College and another to the office of the Park City Daily News for inclusion in the evening edition. He will also be able to forward any private written or phoned messages to the party and from his residence at the above hour conversations may be carried on. If home folks do not have ready access to Mr. Weldy or some of the other members of the Amateur Radio Relay League of America situated in various sections of the state, emergency messages may be sent via Western Union to the mailing addresses above whence they will be phoned to the party in the field if not at that point.

## Personnel—

At this writing—1 July 1930, the indications are that the personnel of the party will be made up the first month (February) of advance registration. A partial list of those who have already requested reservations for the second trip forecasts a cosmopolitan group of congenial companions: Catherine Berry of Uniontown, Lulu M. Helm of Columbia, Lucille Smith and Ruth Cooper of Christianburg and Bristol, Virginia, Louise Kershaw and Ruth Higgins of Louisville, Isabel Barnard of Beaver Dam, Elizabeth Barta and Mae Spriggs of Filbert and Elbert, West Virginia, Gladys Jewell of Center, Winnie Davis of Hardinsburg,

The 1923 Summer School saw the departure of the Pioneer Rocky Mountain Field Trip sponsored by the Botany and Geography Departments. The forty-six day itinerary extended sixty-five hundred miles across the Great Plains and thru the Eastern Rocky Mts. Sections of fifteen states were traversed and visits paid Mammoth Cave, Hot Springs, Platt, Rocky Mountain, Yellowstone, Grand Teton, Glacier, Waterton Lakes and Wind Cave National Parks as well as many other renowned scenic regions, famous historic sites, valuable scientific resources, world art collections, large industrial plants and campuses of leading educational institutions. As a self-sufficient, motorized caravan organized for study-travel purposes the party had the distinction of being the first of its kind in the South. Mr. John C. Swope, President of the Throbred Bus Line of Louisville, and Principal Otis Harkins of Uniontown, transported two parties in sections which also furnished taxi service. Mr. A. V. House of Louisville skillfully piloted the bus concealing the main group around the entire circuit without a single collision. Principal L. W. Allen of Wheatcroft and Coach A. W. Thromperton of Harroton had charge of the camp equipment. Miss Mildred Reynolds, Dietitian at the College Commons supervised the stacking of the commissary and planning of the menus and this important division was in charge of Miss Hilda May of Utopia ably assisted by Miss Lenore Nester of Boaz and Mary Morland of Callahan. Cooking was done in a large well tent over camp stoves and meals were served cafeteria style. With rubber ponchos, mittens, sleeping bag and blankets the party was equally at home on lighted municipal tourist grounds or in mountain retreats. Miss Alice Fernin of Louisville with handy kit and well-stocked medicine chest guarded individual well-being so that the record of no accidents was unbroken by one of no glasses. The practical success of the venture with its many experimental features was made possible only thru the loyal and devoted efforts of the capable staff who worked early and late to serve the needs and comfort of the party. So well did the chiefs perform their arduous duties under trying and changing conditions that everybody returned in good health and the majority reported substantial gains in weight. The objectives of the courses were greatly facilitated by the flexible mode of travel adopted and the general efficiency of the party in traveling. From camp sites far up mountain valleys trading expeditions were conducted to striking physical phenomena and wild botanical gardens along the slopes and on the heights. Dr. R. H. Benniston, Professor of Botany in the University of Wisconsin, instructed in Rocky Mt. Flora and Professor George E. Wood of Western, in Physiography. In all the party traveled and hiked about two hundred fifty miles. Traveling and studying in this way the party annihilated distances, hauled camp at will, required first hand concepts rapidly as they lived and moved about in nature's own laboratories, and often mounted to skyline and peak rarely attained by the average. Through most of those who went were Western undergraduates of the Senior Class, the personnel of the party was widely distributed over the state with several other institutions represented. All were necessarily of good standing and interested in these natural sciences with a bent for roughing it outdoors. In addition to the staff mentioned above, those who went were: Mary Egan, Katherine Alton and Mary Hodge of Louisville; Mary Burton Bennett of Henderson; Elizabeth Ferry of Uniontown; Cornelia Gilmanator and Frank Brown of Scottsville; Ella Lewis of Ft. Thomas; Fred Edwards of Center; Annie Hamilton of Mayfield; Ralph Horing and Blanche Sprague of Sny Lehigh; Lillian Mason of Williamsburg; Irma Lawrence of Tompkinsville; Lucille Lynch of Covington; Flossie Jones of Orono; Kathryn Nelson of Keok; Mary Morgan of Central City; Flora and Mahelle Rhoads of Beaver Dam; Wilella Lee Sprout of Jeffersonville; William Sloop, Jr., of Winchester; Elizabeth Warner of Hardinsburg; William J. Warrington of Russellville; Vera Williamson of Glasgow; Marjorie Winstead of Madisonville; and Victoria Wright of Rose Hill. Too much praise cannot be given these and the other Pioneers for the spirit and fortitude with which they followed President Cary's admonition at the start to overlook one another's shortcomings and cooperate for the common good. So unreservedly was mutual kindness and consideration displayed under many trying discomforts and strenuous physical requirements that the success of the venture academically and operationally was assured throughout. All agreed that the close contact with nature by trail and camp fire coupled with the cultural advantages of the trip will long be treasured by each as one of the richest experiences in his or her life.



College Heights