

RADEBAUGH DIRECTS STATE CONSERVATION

PLANS VAST PROJECTS

New Department Head Has Had Interesting Career; Was University Professor and Machine Gunner

In the office of the Director of the State Department of Conservation at Springfield sits a middle-aged, calm but jovial man trying to put into effect one of the most comprehensive conservation projects ever attempted by an American state.

Eleven years ago he sat behind a machine gun during the World War and taught thousands of youngsters the intricacies of the famous Lewis machine gun. He wrote the first instruction book ever attempted on machine gun operation, using detail operation photographs and was one of the first men to fling terror into the hearts of the enemy through the training of American soldiers in machine gun marksmanship.

He is Gus H. Radebaugh, university professor, machine gun expert, chemist, inventor, mechanical expert, public speaker, consulting factory engineer, and latest of all, practical exponent of the conservation of natural resources in Illinois.

Wins University Place Conservation was far from the thought of young Radebaugh when he graduated from the Homer, Illinois, high school 26 years ago, for his natural instincts led him into mechanical work. For a short time he studied mechanical engineering and drawing, and in 1911 became an instructor in 1911 became an instructor in machine shop practice at the University of Illinois. Three years later he became and assistant in factory management and machine shop practice at the university. In 1916 he was offered a professorship in Roberts college, Constantinople, but declined the offer.

The next five years were among the busiest of his life. He continued his work as acting director of shop laboratories at the University of Illinois and also acted as consulting expert in factory production methods for the Indiana Match company, Republic Truck company, E. V. Kirby Automobile company and the government airport at the Chanute Flying Field, Rantoul, Illinois.

The advent of the war directed the young mechanical expert's attention to warfare practice. Guns had already claimed his interest, so he centered his thoughts on the intricate Lewis Machine gun. As in other activities previously pursued, his intense concentration brought success.

Machine Gun Instructor He was selected as an instructor in charge of Machine Gun Instruction, U.S.S.M.A., in 1927. Shortly afterward, he directed the preparation of the first text book on "Description, Operation and Care of the Lewis Machine Gun." In 1918, he assisted Lieutenant H. W. Flickinger, engineer in charge of flights at Chanute Field, in the installation of a shop system and in the same year contributed his greatest piece of work to America's success in the war, by the invention of a standard ordinance dummy cartridge. The invention was approved by Major R. Mouthroff of the Signal Corps, Washington, D. C., and it was used in the aerial ground schools of the United States Army in France and England very extensively.

During his study of the machine gun, he served as a member of the Board of Directors of the First Illinois 149th Field Artillery War Relief and prepared material for circulars on "Hand Farm Tools, Their Use and Care," for the use of the State Council of Defense committee on Educating Boys for Farm Work.

The close of the war brought him back to his work in the University of Illinois as assistant manager of shop laboratories, but he severed his connection with the university to assume charge of the Urbana-Champaign Sewage Treatment plant.

A Noted Inventor His activities along mechanical lines led him into special sanitary chemistry with two of the state's foremost sanitary engineers. In the course of ten years, from 1908 to 1918, he invented and patented a farm gate, an aerial act for theatrical use, and a schedule-graph for factories. He developed recording equipment for an electrical test car at the University of Illinois and in 1915 worked out special recording equipment for a dynamometer car for the Imperial Railway of Japan.

Mr. Radebaugh's mechanical research has not lessened his ability to interest himself in community affairs, in which he has always taken an active part. He has performed executive duties in connection with university exhibits and projects, the Urbana chamber of commerce, the Centennial State Fair, Champaign county Republican Central committee, Judicial convention of the Sixth Judicial Circuit at Decatur, Illinois, in 1927, and aided in the establishment of community and school organization plans related to modern health projects.

Presbyterian church, the American society of Agricultural Engineers, the Illinois association of Engineers, Illinois association of Sanitary District Trustees, the Central States Sewage Works association, the Elks, Blue Lodge, Knight Templar, and the Isaak Walton league of America.

Born at Mansfeld He was born 42 years ago on July 24, at Mansfield, Illinois, the son of Millard Fillmore and Marie Christiana Burkhardt Radebaugh. In 1912 he was married to Miss Mildred Blanche Kirkpatrick, of Crawfordsville, Indiana. They have two sons, Gustav Howard, Jr., aged 12, Charles Homer, 2, and two daughters, Mary Ellen, 15, and Joan, 5.

Mr. Radebaugh has written a large number of magazine articles and a book, "The Repairing of Farm Machinery and Equipment," published in 1923. Such subject as engineering works in the relation to the public and the taxpayer, the solution of

stream pollution problems, sanitation, have been ably handled by him and articles on general mechanics have been frequently published under his name.

The appointment as director of the State department of Conservation he considered as an opportunity for new achievements. Despite the short time that he has been director of the department he has outlined a new plan of departmental activities and has developed a practical conservation plan for the state which looks far into the future. He is paving the way to greater forest, fish and game preserves in the state, for Illinois recreation and nature lovers and the myriad sportsmen of the state.

QUACKS WHO DUCK

"Stricter legislation needed to discourage medical charlatans," says a medical journal. To make it harder for quacks to duck the law?—Farm and Fireside.

MONTHLY GASOLINE AVERAGE 38 GALLONS

15 PER CENT INCREASE

5,249,863,000 Gallons Bought During First Half of 1928; Three States Free From Tax on Gasoline

Each motorist in the United States, the first six months of this year, used 227 gallons of gasoline and paid a gasoline tax thereon of \$6.85, according to average gasoline consumption figures compiled by the American Motorists association, in co-operation with the Automobile club of Illinois. The average per capita gasoline

consumption figures, compiled by the association, are based on production figures of the government, showing that the first six months of this year the motorists of the country purchased approximately 5,249,863,000 gallons of gasoline—an increase of about 15 per cent over the amount purchased the first six months of 1927.

Gas Tax Varies

Three states—Massachusetts, Illinois and New York—have no gasoline tax. Motorists of the other 45 states and the District of Columbia used 4,652,393,535 gallons of gasoline, or an average of 227 gallons during the six month-period, which means approximately 1.24 gallons per day. The gasoline tax in the states vary, ranging from two to five cents, the average being 3.02 cents per gallon. The states collected a total revenue of \$140,635,398.

An increase in gasoline consumption is reported in all states, 17 of which reported an increase of over ten million gallons, the largest being in California with a gain of 39,000,000 gallons the first six months of this year compared with the same period of last year. The other states reporting an increase are, in the order named, Texas, Ohio, Pennsylvania, Kansas, Montana, Nebraska, Oklahoma, Wisconsin, Missouri, Indiana, Washington, North Carolina, Minnesota, Alabama, Arkansas and Connecticut.

Highways Foster Increase

"An analysis of the figures on the amount of gasoline used by the motorists of each state shows that the larger gains in consumption are due to increased highway mileage rather than increased registration of motor vehicles," according to St. Mayer, President of the association and president of the Automobile club Illinois.

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INCORPORATED AM ULLRICH P
FOUNTAIN SQUARE · EVANSTON

Give an Oriental Rug the Gift of Romance

Among many there are lovely silky Ladik mats priced as low as \$10!

FIRST FLOOR where the tops used to be

WRITE Handkerchiefs ON YOUR GIFT LIST

For Women —at 25c

French block prints in a wide variety of colorings — with hand-whipped edges. Some allover blocks, with white stripes. Some corded white linen handkerchiefs — and some plain white ones with embroidered corners.

—at 50c

Crepe de chine handkerchiefs with picot edges — in gray, beige, green, peach, emerald, lavender. Pure linen, with 1/4 inch hems — French handkerchiefs with wide borders of color, with hand-done initials.

—at 35c

3 for \$1

White, with narrow hems in blue, rose, yellow. Also with applique and drawn-work in the four corners—and with colored

Gifts for MEN

A plain-colored Barathe Tie at \$1.50. In green, maroon, navy and black.

A Tinker Tie Tree that holds a large number of ties where a man can get at them conveniently—\$1.

Men's Mufflers, \$3.50. Heavy squares of silk eagle crepe — tan, maroon, white, with patterns in contrasting colors.

Many attractive and inexpensive gifts of leather, too.

LORD'S—FIRST FLOOR

Because they're pleasant to choose — because you can so easily find something that exactly suits the person you want them for — because they're inexpensive, and finally, because they're nice to get.

embroidered dots. French block prints of very fine linen, with rolled edges; printed voiles with wide net edges — and many more.

—at 75c

there are linens with petit point corners, exquisitely done by hand. Handkerchiefs with Venise lace corners. Painted chiffons, for evening. Linens, with margot lace edges. French block prints for sports wear—and more!

—at \$2

there is a variety of boxed handkerchiefs, 3 to the box at \$2—of corded Irish linen with fine embroidery.

Single handkerchiefs at \$2 include wee squares of linen with deep borders of net and lace, often with the net embroidered in colors. Also crepe de chine handkerchiefs with petit point corners and net edges outlined in embroidery.

LORD'S—HANDKERCHIEFS FIRST FLOOR

Colorful Triangles \$1.85

Sports scarfs in block prints, each separate color outlined with a contrasting color, usually tan or orange in contrast with wine red, navy blue, greens, and chocolate browns.

A gift for a young girl who never has enough scarfs!

LORD'S—FIRST FLOOR

Mothers, Fathers, Uncles, Aunts— Visit the Toy Consultant!

Mrs. Henry Raeder, who has studied the various physiological effects of toys on children of various ages—

Who knows what toys will help them develop alert and resourceful minds—

What sort of toy to get for which type of child—

Is here each day from 2 to 5 to help people who aren't quite sure what sort of toys to buy.

Here are scientific toys that children will enjoy:

Across the Continent — \$2 — a game that is played on a map of the United States.

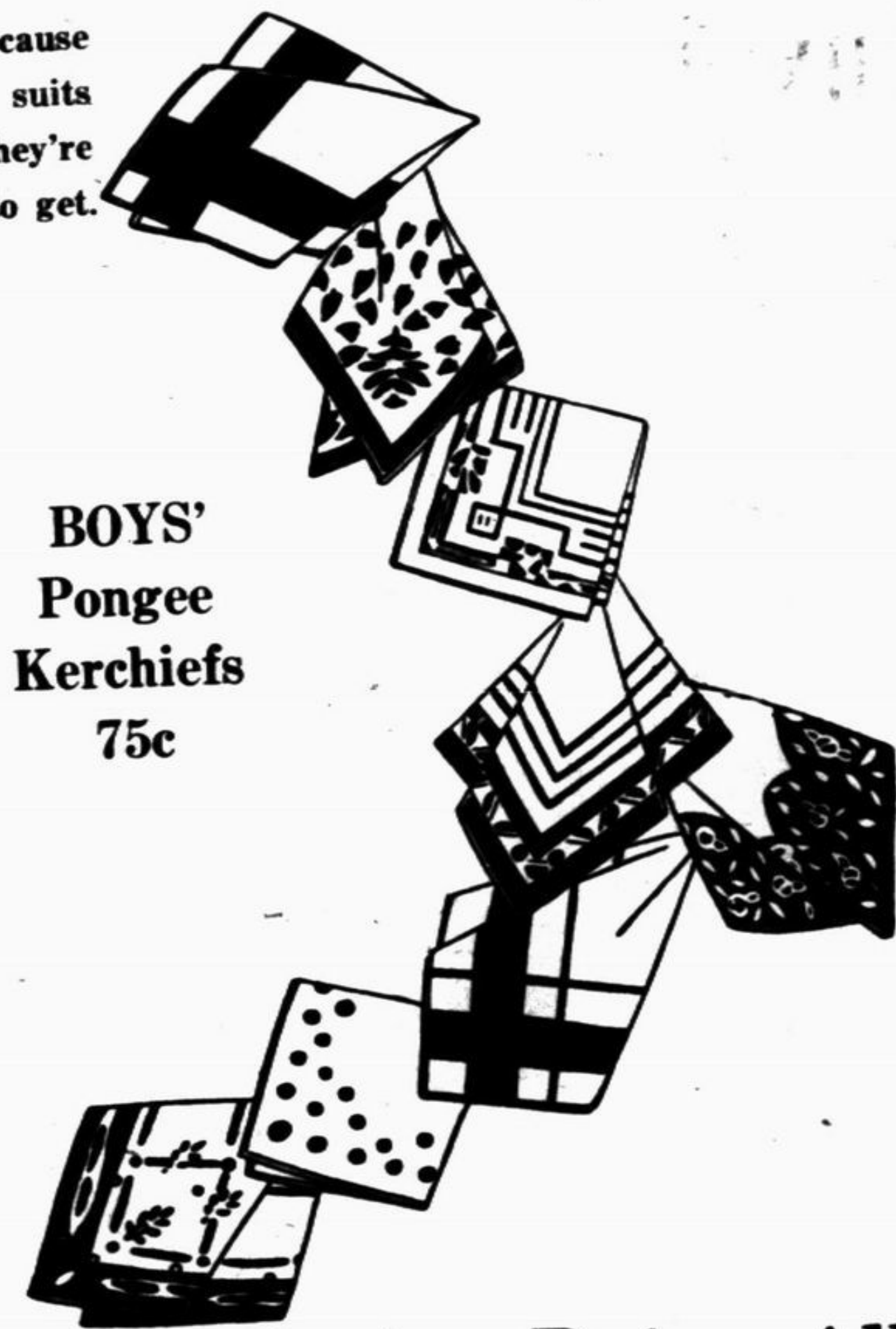
China Dishes from \$1 to \$2.35— pattern ware and luster-ware.

Glazed Cylinder Beads in Bright Colors, 50c and \$1.

Building Blocks, 45c to 95c. To make all sorts of buildings of.

Rainbow Paint Bow, for young artists, \$1.

LORD'S—Enchanted Castle of Toys SECOND FLOOR



BOYS' Pongee Kerchiefs 75c

Many People Are Doing All Their Shopping in THE GIFT SHOP

A gift that is a surprise is twice as delightful to get as one that is merely practical or useful. Not that we disdain the practical! Indeed, you'll be amazed to see how many adorable things in the gift shop are sturdily made for years of use. But they're different — mostly, we suppose, because they're almost all from foreign lands, where craftsmen still make things lovingly, patiently, and by skill of hand!

Daphne Glass

Clear, fine topaz glass, with a thin rim of green. Goblets, \$25 a dozen.

Doorway Lanterns

Antique brass in King Charles design. Unbreakable sections of isinglass through which the light glows, \$16.50.

Cold Meat Forks

Silver; Minuet pattern, \$7.50.

Vacuum Desk Sets

A graceful bottle with a silvered top, a tray to match, and a delicately etched glass. Rose, yellow, Robin's egg blue and French blue enamel, velvet-finished, \$11.

Hot Milk Jug

A lovely thing with a rather pointed spout, and a straw handle that keeps cool when the pitcher's full of hot milk. Lacquered with silver, \$11.

Powder Bowls

Venetian glass in topaz color, with spun-glass tops in a flower-like cluster, in rose color, \$10.

Steak Carvers

Stainless steel, with sterling silver handles in the Wedgewood or Minuet patterns, \$10.

Flower Pockets

Wall pockets of wrought iron with glass containers, \$8.00.

GIFT SHOP—FIRST FLOOR