

Strange Manifestations of Electricity

Although in the lightning stroke it can demolish great structures in an instant, yet it may play innocently about the fingertips of a Wanderer in a snowstorm.

By GARRETT P. SERVICE
"In a letter from my sister in Iceland she tells me that during a heavy snowfall last winter a wooden stick with an iron point at the end in her hand had a light on top like a candle. I have heard of similar circumstances people sometimes see lights on their finger tips. While I am convinced that the phenomena caused by electricity in the air, I do not understand why the light seems to burn steadily instead of appearing as a spark, as with lightning. I should also like to know how light is generated by the clouds when lightning occurs, and if it is generated by movement of the clouds through the magnetic field of the earth—E. J. V. Cicero, III."

The phenomenon seen by your sister in Iceland was "St. Elmo's Fire," called by the conductor of the contracted form of *corpo santo*, meaning "holy body", about which many superstitions and legends have been woven, and which has served as a picturesque element in scores of sea tales.

It is an example of the brush electric discharge, which takes place according to circumstances, either in the form of a sheaf of minute rays of light, attended by a hissing or crackling sound, or of a steady, silent glow. The latter occurs when the object that serves as the focus has a pointed shape.

The explanation of the whole phenomenon is based on the fact that the electricity passes so readily that a charge or difference of potential sufficient to cause a spark cannot accumulate.

With an electrical machine the lights may be caused to appear in both their characteristic forms, and either on the conductor of the machine, or on an object presented toward it, between which and the conductor a large difference of potential is maintained. Tufts of light will form on the tips of the fingers when presented to a charged conductor, but there is danger of getting a shock through the sudden formation of a spark.

When the lights appear in the open air, as they were seen by your sister, the discharge takes place from clouds, or other aerial accumulations, close at hand, the objects tipped by the glow serving as lightning-rods to draw off the electricity so rapidly that the potential cannot rise to the disruptive point. If it did, the effect would be equivalent to a lightning stroke, and might be received.

When the electric accumulation is formed very rapidly, however, the difference of potential or pressure may become so great that no steady leak can keep it from rising very high, and then a discharge of great violence will occur, like the bursting of a dam by the water of a cloud-burst.

The potential on a thunder-cloud may amount to millions of volts. Lord Kelvin showed that the difference of potential per centimeter required to produce a spark in air has a limiting value of about 150 electrostatic units, equivalent to 29,000 volts. To produce a spark a mile long, and lightning sometimes reaches several miles, would require a potential of more than 435,000,000 volts.

This great potential, as P. G. Tait showed, is accumulated by the aggregation together of millions of minute particles each carrying a small charge, and forming when united a drop of water whose electric potential may be measured by the number of constituent particles divided by the cube root of the number.

Thus, if 1,000,000 spherical particles, each carrying an equal charge, are combined to form a raindrop, the radius of the drop will be represented by 100, while the quantity of electricity carried by it will be represented by 1,000,000. In other words, it will be 1,000,000 divided by 100 or 10,000 times as great as was the potential of each of the particles before combination.

St. Elmo's Fire may be regarded as a kind of tame lightning. It is lighting in a diluted form or lightning too powerless to strike. History is full of instances in which it has astonished the most level-headed observers. Julius Caesar once saw the points of the javelins of his legion tipped with fire on a stormy night in Gaul. Finnis, the Roman naturalist, was much interested in what we call St. Elmo's Fire, but which the Roman naturalist, Pliny, called Castor and Pollux when a pair of the lights appeared among the rigging of the ship, and in whose honor he was seen they called it Helen, after the unfortunate heroine of the siege of Troy, and in whose honor the bad omen. Two lights, however, were regarded as lucky.

Occasionally a large number of the lights appear simultaneously, tipping the mast-heads and the ends of the spars with mysteriously looking flames which sometimes wander about, appearing suddenly in a new place in a manner startling even to experienced observers. On land similar appearances have been observed. Thus there is a story of a load of straw driven under a black cloud which suddenly appeared to be in flames, every straw "giving forth a streak of light, while even the driver's whip showed with a pale blue flame."

During a thunderstorm a whole forest has been seen to become momentarily luminous just before each lightning flash. On the Alps and other mountains it is no very uncommon phenomenon to see electric flames poised on the heads of alpenstocks or playing about the heads and hands of climbers. Thus does electricity proclaim its universal and pique us with its enigmas.

French Take 400 Prisoners in Morisel

By Associated Press
With the French Army in France, Aug. 9.—Yesterday's battle in the region of the Somme was a British battle under the general command of Field Marshal Haig. The French supporting operation was on the right wing.

The French portion of the front was only about three miles when the action began at dawn, but in view of the rapid progress of the troops the line soon extended from Hargicourt to Hargicourt. The French took 400 prisoners in Morisel. The heaviest resistance was met in Moreuil which had to be outflanked before the Germans evacuated the position.

Calls Roosevelt Boys Wonderful Fighters

Boston, Mass., Aug. 9.—"The Roosevelt boys are wonderful fighters, and Archie is the most wonderful of the family. They lead their men into the fight, and the men would follow them. It was Teddy or Captain Archie to death."
Thus speaks Major John E. Atkins, of the Salvation Army overseas forces, of the fighting sons of Colonel Theodore Roosevelt, and he claims to know them, since he was attached to the Twenty-sixth United States Infantry, in which the brothers are now fighting.

Major Atkins Is in Boston on Leave

Major Atkins is in Boston on leave of absence. He is going back in three weeks.
HOW SOLDIER'S PAY GOES
Alexandria, La., Aug. 9.—The question of what an enlisted man in the American Army does with his money has been answered here by a disclosure of the financial affairs of one member of a machine gun company at Camp Beauregard. The soldier receives \$33 a month. Of this \$15 is sent to his mother, \$5 is paid on a Liberty Bond, and \$6.50 is deducted for insurance, leaving a balance of \$6.50, or approximately 21 cents a day.

JUST because a town goes way over the top in all of its war movements is no reason why it should try to break all heat records. To wear light clothing, eat wisely and rest at night will keep your temperature from boiling.

Dives, Pomeroy & Stewart

THE stamp of patriotism is found in every W. S. S. you buy, so if you want to pay fitting tribute to the boys "over there" just double up your stamp purchases.

A Thousand Bathing Suits Men's and Boys'

Ready in the Men's Store Tomorrow

If you haven't gone in for bathing this season, just take a hike along the Susquehanna any evening—and you'll be here the next morning for your swimming suit. Sizes for men and boys of all sizes.

- Men's bathing suits in one and two-piece garments; with fancy stripe trimming \$1.00, \$1.25, \$2.00 and \$2.50
- Men's wool bathing suits in one and two pieces with novelty stripe trimming \$3.50, \$3.95 to \$5.50
- Boys' bathing suits with fancy trimming 75c, \$1.00 to \$2.50
- Men's "Guard" bathing suits, consisting of white wool jersey, blue flannel pants and white belt \$4.10 and \$5.25
- Children's one-piece all-wool bathing suits \$2.00
- Children's cotton bathing suits 45c
- Men's and boys' white bathing belts, with non-rustable buckle 35c and 50c
- Men's white wool bathing shirts \$1.50 and \$2.25
- Men's inside bathing trunk supports 35c and 50c

New Waists of "Royal" Quality

The Best of Their Kind at \$2.50 and \$2.95

Made with a skill that has been a part of "Royal" policy for years and as good looking as they're carefully put together.
Voile waists, convertible collar, tucked yoke, embroidery beading, trim shoulder seam, button piece, collar and cuffs \$2.50
Voile waists, tucked front, deep pointed collar, French turn-back cuff \$2.95
Dives, Pomeroy & Stewart, Second Floor.

Cool Chemise and Bloomers \$1.00 to \$1.95

Envelope chemise in pink batiste or white striped voile; tailored or lace trimmed styles; finished with touch of colored stitching or embroidery. . . \$1.25, \$1.50 and \$1.95
Pink batiste bloomers, lace edge or plain finish \$1.00
Dives, Pomeroy & Stewart, Second Floor.

You're Not So Likely to Roast Alive, Man, If You Buy Several Pairs of Cool Pajamas



and the pajamas in our men's store are as cool as you'll be if you step into a pair of them.

Apparently they were made by a man who foresaw this week's record weather.

- Pajamas in plain white madras with frog \$1.35
- Two-piece pajamas in novelty and neat stripe patterns \$1.50
- Silk frog trimmed madras and percale pajamas \$1.85
- Crepe and fancy weave madras pajamas with silk frog \$1.95
- Crinkled crepe and Soisette pajamas in white, khaki, blue, pink and lavender. . . \$2.50
- Lightweight silk stripe madras pajamas \$2.95
- Fancy silk trimmed pajamas \$3.50
- Pure silk pajamas in plain colors \$7.00

BOYS' PAJAMAS AND SLEEPERS

Two-piece pajamas in plain colors and stripes; sizes to 16 years, 85c, \$1.19 and \$1.35

One-piece pajamas and sleepers in plain colors and stripes, 85c, \$1.19 and \$1.35

MEN'S AND BOYS' NIGHTSHIRTS

Men's muslin night shirts in plain white or trimmed in color; surplice neck sizes 15 to 29 at 75c
Men's featherweight nainsook night shirts \$1.50
Boys' and youth's muslin night shirts, sizes 4 to 18; with fancy braid trimming, 75c
Dives, Pomeroy & Stewart, Men's Store

These Colored Cottons Show Fall's Style Tendencies and They Furnish Cool Frock-Thoughts For Now

The prettiest of stripe voiles and the fairest of gingham are presented in this complete showing. Prices are lower right now than we expect they'll be a month hence.

- Silk stripe voiles in white and colored grounds with silk stripe. Yard 25c
- 36-inch percales of fine grade with colored fancy shirting stripes. Special, yard 29c
- Madras shirting in fancy colored stripes. Yard 39c and 55c
- Dress gingham in fancy plaids, stripes and staple checks. Yard 45c
- 36-inch suiting in plain shades for house dresses and separate skirts. Yard, 45c and 65c
- Fresh, new voiles in grey, cadet, navy, helio and light blue ground. Yard, 29c, 39c to 59c
- Plain voiles, 44 inches wide, in a full line of shades. Yard 45c
- Silk pongee, 36 inches wide, one-half silk; in all shades. Yard 65c
- Silk and cotton mixed skirting in fancy and neat colored stripes, of fast color. Yard, \$1.00 and \$1.25

Dives, Pomeroy & Stewart, Street Floor.

Double Finger-Tipped Silk Gloves: Special 75c--Values That You'll Find It Hard to Duplicate

- Women's two-clasp silk gloves, with double finger ends; in black and white. 75c
- White, two-clasp silk gloves, with double finger ends and three rows of black embroidery. Special 75c
- Two-clasp silk gloves, with double finger ends; in black and white, with self or contrasting embroidery. Pair 85c
- Better silk gloves, in black, white and colors \$1.00 to \$2.00

Groceries for the Table & Week-End Outings

- Sugar cured hams, lb. 35c
- Potted, lean and well smoked, lb. 27c
- Blue Valley butter, lb. 31c
- Van Camp's pork and beans, can, 19c; dozen cans, \$2.19
- Green and mixed India & Ceylon tea, lb. 49c
- Baker's 25c instant silver polish, jar 17c
- Luster polish, box 5c
- Potted meat, can 5c
- Blue Valley butter, lb. 31c
- Eclipse steel cut coffee, lb. 29c
- White Ocean fish, lb., 10c; tub \$1.19
- Laundry soap, cake 4c
- Herring with tomato sauce, can 17c
- Baby Educator teething rings, can 25c

Dives, Pomeroy & Stewart, Basement.



Bedroom Suites in the August Furniture Sale--Well Designed and Well Constructed

Put the right kind of furniture in your bedrooms and they will be cheery and comfortable. Commonplace furniture is expensive at any price. Note the excellence of the suites that grace our Furniture Floor in this August Sale. Beds, bureaus, chiffoniers and other pieces showing the best skill in designing and construction. Nothing skimmed nor lessening of quality to make "sale" pieces.

- Four-piece Bedroom Suites in mahogany, American, birdseye maple and old ivory—superior in construction—a feature that means no trouble in pulling out drawers—dustproof partitions. Specially priced in the August Sale at \$129.00
- Four-piece bedroom suites in mahogany—we cannot duplicate these suites when the few remaining ones are sold. Special in the August Sale at \$97.50
- Four-piece American walnut bedroom suites, mahogany drawer bottoms, dustproof throughout, Louis XVI period. August Sale Price, \$175.00
- Four-piece American walnut bedroom suites in the Adam period. August Sale Price \$125.00
- Queen Anne bedroom suites in American walnut four pieces. August Sale Price \$190.00
- Old ivory bedroom suites of four pieces, August Sale Price \$130.00

- Old Ivory Bedroom Suites, including twin beds. August Sale Price \$250.00
- Davenport Beds including mattress—fumed oak golden oak and mahogany \$49.00 to \$72.00
- Large overstuffed chairs and rockers. August Sale Price, \$26.50
- Tapestry Rockers, spring cushion seat and pillow back. August Sale Price \$35.00
Dives, Pomeroy & Stewart, Fourth Floor.

Clearance of Summer Millinery

\$6.50 & \$7.50 Hats Reduced to \$5.00

This clearance group embraces several dozen white and pink summer creations in georgette crepe and silk of which we sold hundreds this season.

Now rather than have these few hats remain in stock longer and run the risk of becoming soiled we have reduced prices from \$6.50 and \$7.50 to \$5.00

Clearance of Boys' Straw Hats

Hats at 75c and \$1.25
Dives, Pomeroy & Stewart, Second Floor.

A Sale of Cool, Serviceable Summer Frocks Actual \$12.50 Colored Dresses Down to Less Than Cost \$6.50

They are just the type of dresses women seek for end of summer and early fall wear because their patterns are dark enough to stand good service without too frequent launderings.

Made of fine quality voiles for the most part, in styles that show they belong to the better class of frocks.

In floral and figured patterns on back grounds of the darker tones.

Choice in a clearance at \$6.50 Several Hundred White Tub Skirts Reduced

Any woman who sees these splendid tubular skirts will feel at once that she can afford to own several of them even if she has no positive need for them until next summer. The materials are all of the finest quality gabardines and cords, with a little sprinkling of black and white stripes and navy blue and white linen.

Waist bands of all sizes for small medium and large women.

Clearance prices are \$1.98 to \$5.50
Dives, Pomeroy & Stewart, Second Floor.



August Has Brought the Best Values of the Summer in Men's Clothing: Two Important Clearance Groups

- \$18.00 and \$20.00 Suits Reduced to \$13.75
- \$22.50 and \$25.00 Suits Reduced to \$17.75

August is the time for adjusting clothing stocks in preparation for the new season—broken style lines that show only a size of this and a size of that—taken altogether, a goodly showing of sizes and patterns, which at the reduced prices make a worth-while investment.

Included in these lots of reduced clothing are models tailored expressly for men and young men—Spring suits and Summer Suits in English cuts, conservative models and smart military effects in two and three-button effects.

Coats are lined in about all the ways you can think of, from a "suggestion of a lining" to a full lining; and pockets are treated in a variety of styles.

To pack these suits away for next season would be profitable with clothing prices due for additional advances—good stock keeping dictates a complete clearance—you profit now by the reductions.

Unquestionably Men Who Wear Palm Beach Suits Are Cooler Than the Other Fellows

There is no room for argument—the very nature of the fabric—its freshness and light weight gainsays its coolness and comfort. The ideal hot weather suit for all around wear when the weather man loses "control of the situation"—as he did this week.

And you'll be pleased to know that special prices are displayed on Palm Beach and Cool Cloth Suits.

- \$8.75 \$9.50 \$11.50
Dives, Pomeroy & Stewart, Men's Clothing, Second Floor Rear.

