

## WHY

### Indians Have Representation in Maine Legislature

The lower house of the legislature of Maine always includes one representative each from the Penobscot and Passamaquoddy Indian tribes. These tribes, which constitute the only important bodies of aborigines remaining in New England, are remnants of the once powerful Abnaki confederacy and altogether they number only about 800 or 900 souls at the present time. The Indians are given representation to safeguard their tribal rights, and the two Indian representatives in the legislature are permitted to speak only on matters connected with the affairs of the Indian reservations, their function being comparable to that of delegates in congress from federal territories. For the most part the Penobscots live at Oldtown on an island in the Penobscot river above Bangor, while the Passamaquoddy reside in two groups, one at Peter Dana's Point and the other at Pleasant Point, both being near Passamaquoddy bay in the vicinity of Perry. The revised statute of Maine, Chapter 319, Section 44, provide: "On the first Tuesday of November, eighteen hundred and eighty-four and biennially thereafter, the Penobscot Indians shall hold their election for the choice of governor and lieutenant governor of said tribe, and a representative to the legislature of this state. The agent of said tribe shall give notice of the time and place, seven days before said day of election, by posting notices thereof, one at his office and one in some conspicuous place on Old Town Island. Said agent shall receive, sort, and count the votes given in at said election, in presence of the members of the tribe, and shall give to those elected certificates thereof." Section 55 contains similar provisions for an election held by the agents at Pleasant Point and Peter Dana's Point for the selection of a member of the legislature to represent the Passamaquoddy tribe.—Pittsfield Magazine.

### Why Presence of Water Is Vital to Humanity

The quantity of water required for the support of one human being is about 6,000 tons per annum. A man drinks less than one ton in a twelve-month, but in that length of time he eats 400 pounds of food. It takes two tons of water to grow the grain for making a one-pound loaf of bread. It is not extent of territory, but water supply that determines the number of human beings a given area can maintain. What is a desert? It is usually an area well suited for the production of food crops, barring the fact that it lacks water. Owing to this lack, it cannot support a population. No water, no crops; no crops, no people. All vital processes are manifestations of the presence of water.—Louisville Courier-Journal Magazine.

### Why Air Bubbles on Pond

When the raindrops are quite large, as they are near the beginning of certain showers, they fall into a body of water with sufficient force to drag after them, as small pebbles do, bubbles of air, which are entrapped by the closing water above. These bubbles are small and often do not break immediately. They break when struck by a raindrop, or, sooner or later, even when not struck.

### Why Rainfall From Sky

Doctor Humphreys of the weather bureau has presented an explanation in which he states that the actual falling of rain results from the fact that additional condensation takes place on the drops of water already formed and suspended in the cloud. They grow in size and become too heavy to be retained in the air and fall down as rain.

### Why Cross in Street Lamp

The bureau of standards says that the appearance of four light rays from a street lamp when viewed at night from a window is a diffraction phenomenon, arising from the wave nature of light—namely, bending around obstacles and interfering.

### Why Starters Stick

Usually the starter on the car sticks because the pinion engages the fly wheel while the latter is in motion. The remedy is the old one of putting the gearshift lever in high and rocking the car backward and forward.

### Why Peppers Are Hot

The bureau of plant industry says that that which makes peppers so hot is a glucoside contained in the fruits close to where the seed is attached. The pungent principle derived from this glucoside is an essential oil.

### Why Called "Journey Cake"

In Colonial times, corn bread was called journey cake, and was probably cooked for carrying on a journey. The word has become Johnny as it lost its significance.

### How Trees Are Labeled

To label trees, the Department of Agriculture uses aluminum tapes tacked on pieces of board which are screwed fast to the tree.

### Why Name "Methodists"

Methodists are so named owing to the methodical strictness of their lives and religious exercises.

### Why "Sad Irons"

The word "sad" used in connection with iron means heavy or weighty.

### Alva Declared Creator of United Netherlands

William the Silent is closely connected with the three hundred and fiftieth anniversary of the Dutch nation, writes P. C. Gordon Walker in the London Daily Telegraph, though in reality he did all he could to frustrate the emergence of a separate Dutch nation, his ideal being a United Netherlands, including the modern Belgium. It is Alva, the Spanish general, whose name should be in Dutch mouths as the chief creator of Holland, instead of being reviled as the cruellest persecutor in history. For he found the Netherlands a single, undivided district, with Calvinism and Catholicism evenly spread over the country, and with greater linguistic difference between the Walloons, the Flemish and the Dutch than there was between Dutch and Germans.

Alva is who forced this district into nationalism by driving Calvinism and trade into the North. When he retired in 1573 Holland had become a separate nation. William the Silent had resisted this, and three years later he made a determined effort to reunite the whole Netherlands. He failed, and one of the causes of his failure was this Union of Utrecht which Holland celebrates but which was made behind William's back and to his displeasure. Thus twice William fought against the isolation of Holland, but from the Union of Utrecht to his murder five years later he recognized the new facts and fought for Holland as a country against Spain.

### Greek Discus Thrower Originated Quoit Game

The modern game of quoits is a descendant of the ancient Greek discus throwing, with two differences: the quoit is ring-shaped, flat on one side and rounded on the other, and the throwing test is one of accuracy rather than distance. There are few traces of it in Europe. It apparently originated in the border country of England and Scotland. It was one of the games prohibited in the reigns of Edward III and Richard II, in favor of archery. It is played with two pins 18 yards apart driven into the ground with one inch exposed, situated in the center of a circle of stiff clay three feet in diameter. Quoits are of any weight but usually of nine pounds. They must not exceed 8 1/2 inches in diameter or be less than 3 1/4 inches in bore, nor more than 2 1/2 inches in web. Players must stand within 4 1/2 feet of the center of the end and at one side. Each player has two quoits. In championship matches, quoits more than 18 inches from the pin are called foul and removed. Measurements are made from the middle of the pin to the edge of the quoit. Those on top are measured first. Quoits landing with the flat side up are fouls.

### Apple Cultivation

Apple trees should begin to bear, as a rule, when they have been planted six to eight years. Certain varieties, as the Yellow Transparent and Wagener, may bear considerably younger, and others, such as the Northern Spy and Yellow Newton, not until they are somewhat older. Individual trees of the same variety vary somewhat in this respect. The age of a tree is usually reckoned from the time it is planted in its permanent place.—Washington Star.

### One More Success Recipe

T. D. writes with regard to a joke recently printed in this column: "The threat of the merchant to an employee who had asked for a raise that if he wasn't careful he would be made a partner, and so get nothing, recalled to my mind a bit of advice once given by a successful man: "Work faithfully for eight hours a day, and don't worry, and in time you may become a boss, and work twelve hours a day and have all the worry."—Boston Transcript.

### Want Gaelic Broadcasted

In an effort to preserve their Gaelic language, the Welsh are demanding that it be used in broadcasting instead of English. The radio has taken the English language into the home of thousands of Welshmen who hitherto have neither heard nor spoken English. A special committee reports to the government that English is introduced into the schools too early, "before the children have grasped their own language."

### Winding Up the Ingersoll

Robert Ingersoll was famous for the library of infidel books which he possessed. One day a reporter called on Mr. Ingersoll for an interview, and among other questions, asked: "Would you mind telling me how much your library cost you, Mr. Ingersoll?" Looking over at the shelves, he answered: "Well, my boy, these books cost me, anyway, the governorship of Illinois, and perhaps the Presidency of the United States!"—Contact.

### The Squirrel

A teacher of the fifth grade had read a description of a squirrel, preparing the children to write about the squirrel in their own words. After some explanation of the words she had used, the teacher urged the pupils to describe his motions and actions. She received the following result from a future author: "The squirrel shows that he is cunning by undulating his graceful tail as he eats nuts."

## HOW

### OCEAN'S SUPPLY OF KELP MAY NOURISH HUMANITY.

While government chemists were extracting potash, iodine and acetone from seaweeds during the war, it was learned that the weeds contain important food values. At the University of California, dried kelp (*Macrocystis pyrifera*) was fed to cattle and the cattle became fat. It was fed to sick rats and they got well. Now, Prof. G. W. Cavanaugh, head of the department of agricultural chemistry at Cornell, has found that kelp contains all the elements contained in food and living flesh "in a complex colloidal combination with chlorophyll and the precious vitamins A, B, D, E and probably F and G."

Many seaweed ingredients are now being used in medicines. It stands to reason that seaweed preparations should be beneficial; because, when life was in its infancy, the weeds of the sea, algae especially, were the fundamental foods—as they still are to denizens of the seas. In a number of California cities, Ojai for instance, kelp bread is becoming a commodity. It is said to contain ocean salts in about the same proportions the same salts are found in human blood.

Fads come and go, and kelp bread may be no better than most fads. The proof of its value will be found in the eating. Each day brings a new bread, and if kelp bread proves to be more than just another kind, Southern California has a chance to become a bakery for the world; its shores are lined with groves of *Macrocystis pyrifera*—the real forest primeval.

### How Astronomers Find Velocities of Nebulae

Frequently we see where some astronomer-scientist has measured the speed or velocity of certain stars or distant nebulae. All of which causes the average person to wonder just how such velocities are determined. The secret is that the astronomers have a method all their own. They use the velocity of light itself as the speedometer. And they determine the speed of stars directly from the stars' own light. Dr. Milton L. Humason, of Mt. Wilson observatory, has measured the velocity of spiral nebulae as high as 12,000 miles per second. Photographs taken through the 100-inch reflectors at that observatory show the spectra of faint nebulae which seem to be receding from the earth at more than that speed.

### How Flyers Apply "Dope"

Dope is a somewhat viscous solution of cellulose nitrate. The name dope is given to that substance used as an application on the fabric covering of the wings of an airplane for the purpose of shrinking and protection. A dope must shrink so that the tautness of the dope-covered fabric is satisfactory for flying. The tautness should also remain fairly constant under various weather conditions. The dope film must act as a protective covering for the fabric in order to prevent the rapid deterioration due to weathering. An opaque dope is used because a clear film is transparent through sunlight, which is the greatest factor in the deterioration of dopes and fabric. Dope increases the tensile strength of the fabric, reduces the tear resistance and reduces skin friction.

### How Lips Tell Character

A German professor has been conducting a scientific investigation of lips and their secrets. According to him, a man's mouth—or a woman's—tells quite a lot about character. Lips may also, according to this investigator, provide a clue to a person's occupation. Telephone girls, for instance, develop full, flexible lips in the course of their duty—because speaking very clearly and distinctly, giving each syllable its exact value, is necessary in their work. But lips may be deceptive. The professor believes that great thinkers have thin lips, but he has also found thin lips among native races on the lowest level of culture and intelligence. So, even when silent, lips may lie.

### How Fish Breathe

Fishes do not come to the surface to breathe, but extract the necessary air from the water, which contains dissolved air. The exchange of carbonic acid gas for air is effected by means of the gills. Most fishes have teeth, though these are of various kinds and are, in some species, not located in the jaws, but on the inner surface of the mouth or pharynx, in the esophagus or elsewhere.

### How to Preserve Books

Books bound in leather should be kept polished with a reliable furniture cream if you wish them to wear well and look attractive on your bookshelves. All frayed edges should be gummed down with fish glue.

### How Fruits Are Colored

The coloring of citrus fruits is a delicate process which is carefully done. Kerosene burners are still used to some extent, but ethylene is now often used.

### Historic English Mill Yields to Father Time

The relentless hand of time, aided and abetted by the heavy gunfire of modern war, and strengthened by a little final push from the wind, has brought destruction upon one more landmark connected with the early history of the United States.

The old mill at Billerica in Essex, England, from near which the Pilgrims set sail for the new land, has collapsed. Its huge beams of solid oak, which stood the strain and stresses of time and work from the days of Pilgrims down to the outbreak of the World War, have at last found their burden too heavy, and, as the foundations weakened, gave way during a storm.

The old mill was closed during the war, as the location was considered too dangerous for the grinding of the grain of the nearby countryside. Later it fell under suspicion as a rendezvous of German spies and was boarded up. Heavy gunfire was frequent in this section, and the vibrations gradually weakened the old structure.

At a house, close by the mill, was the scene of the meeting of the Pilgrim band just before it set sail for America. Close by, also, another pilgrim, but one bent upon destruction, came to the end of its journey, for one of the large German Zeppelins fell in a field adjacent to the mill.

The construction of the mill was almost entirely of oak, and the huge shaft for the wheel was a tremendous oak trunk. No nails or spikes of any kind were used in the construction.

### Shakespeare's Zest in Life Shown in Writings

Shakespeare's enormous zest in life makes his earlier comedies a paradise of delight, writes Prof. Walter Raleigh, in My Magazine.

The love of pleasure, if it be generous and sensitive and quick to catch reflections, is hardly distinguishable from wisdom and tact. It has no respect for the self-torturing activities and energies of a vengeful and brooding mind, or for those bitter thoughts that spend themselves in a vain agony upon the immutable past.

Shakespeare's villains and evil characters are all self-absorbed and miserable and retrospective. Jealousy born of deprivation is a passion as common as mud. Deprivation sweetly taken, with no thought of doubling the pain by invoking a wicked justice, love that does not alter when it finds alteration but strengthens itself to make amends for the defects of others—these are the materials of the pinnacle whereof he raises his highest examples of human goodness. His own nature sought happiness as a plant turns to light and air; he pays his tribute of admiration to all who achieve happiness by ways however strange.

### Electric Light Invention

It was a Northumbrian Englishman, Sir Joseph Wilson Swan, F. R. S., a native of Sunderland, who first invented electric light. More than 20 years before Thomas Alva Edison took out his patent, Swan had demonstrated in the presence of the great scientist, Michael Faraday, the possibility of illuminating the South Foreland lighthouse by electricity; and in 1862, lighting by carbon filaments was officially installed in the lighthouse at Dungeness. Swan left to his country and to the world three great bequests—electric lighting, artificial silk, and bromide printing.

### Education

I consider a human soul without education like marble in the quarry, which shows none of its inherent beauties until the skill of the polisher fetches out the colors, makes the surface shine and discovers every ornamental cloud, spot and vein that runs through the body of it. Education, after the same manner, when it works upon a noble mind, draws out to view every latent virtue and perfection, without which such helps are never able to make their appearance.—Addison.

### Wash Hands to Get Gold

All workers in the factories where gold pen points are made have their overalls washed on the premises, says Tit-Bits, the wash water being put in tanks to let the precious dust settle and be saved. The water in which the workers wash their hands is treated in a similar manner. At the end of the day the girls on the sitting and polishing machines have to comb and brush their hair for minute fragments of the metals.

### Gayly Colored Moth

The tapestry moth is not so common in the United States as the case-making or the webbing clothes moth, and is larger than either of them, having a wing expanse of about three-fourths of an inch. It is more strikingly colored. The head and basal third of its forewings are black, while the outer two-thirds of the wings are creamy white, though more or less obscured on the middle with gray. The legs are uniformly pale gray.

### Use for Rice Grass

A rice grass that appeared in Essex, England, about 60 years ago, is being used to reclaim land from the sea and also to guard sea walls. It is a rush-like growth that has the peculiar property of collecting mud, thus raising the shore level inch by inch and adding shore land that can be used for pasture or tillage. The grass is being exported to other countries where it will be employed for the same purposes.

### SUSPENSION OF MANY COLLEGES FORECAST

Suspension of a number of colleges will result from the economic depression, James L. McConaughy, president of Wesleyan University, told the local alumni group in University Club.

"The economic pressure likewise will decrease the number of students until only the stronger colleges with

more exacting standards survive," he said.

"This, however, will be for the good of both colleges and country. Too many students and lax academic standards have been the greatest obstacles to college progress."

Dr. McConaughy said students seeking a higher education will select the better institutions, which eventually will result in discontinuance of some of the weaker colleges.

## A High Authority

STANDARD STATISTICS SAYS:

"It is no longer a matter of probability, but rather one of incontrovertible certainty, that a concerted and aggressively vigorous effort to materially expand the volume of bank credit outstanding is going to be made during the near term future."

"Governmental authorities, bankers and business men will be working together toward this end, under a plan which is more comprehensive and carefully drawn than any that has been tried thus far during the current depression, as a business stimulus."

"It is our judgment that this impending strenuous effort to stem the tide of deflation, this 'Big Spring Push'—as it is being called in Washington—has a better than average chance of success."

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