Power Through The Ages

As mankind enters the age of atomic power, it is well for him to consider how this era might affect the complexity of life in the future. Predictions are difficult. We do know, however, that the development of new power sources in the past meant a higher degree of specialisation and sophistication in the lives of our forefathers.

fathers.

If all the machines ever invented an an emanage ever invented were set up in a row, they would forever remain a silent mass of useless parts without a source of power. Whether we turn to muscular power, water, steam, electric or atomic, the saga of power through the ages is endlessly fascinating.

power through the ages is end-lessly fascinating.

A man cannot budge a boulder-with his bare hands. But when he pushes a crowbar beneath it,

with his bare hands. But when he pushes a crowbar beneath it, props a rock under the crowbar, to serve as a fulcrum, then pries downward, the boulder moves. This discovery prompted an early Greek, Archimedes, to boast that he could move the world with a simple lever.

Today, of course, machines do much more than move boulders. Yet the moving of all mechanical devices can still be reduced to combinations of five "simple machines" known to the ancient Greeks — the lever, the wheel and axle, the pulley, the inclined plane and wedge, and the screw.

A Reman engineer of the First-Century B.C. put machines to serious, heavy work. He turned a crude wheel on edge and thus invented a basic prime mover, the vertical waterwheel. The wheel came into use during a time when the Roman population was clamoring for cheaper bread. In the Fourth Century, flour mills were built that produced 28 tons of ing for cheaper bread. In the Fourth Century, flour mills were built that produced 28 tons of flour in one 10-hour day, enough

for 80,000 people.

It was water — and the waterwheel — that continued to be
man's single greatest source of
power until the coming of steam.
As waterwheels were improved,
they powered machinery that sawed wood, pressed olives and processed cloth. Water power could
also be harnessed for the rich gold,
silver, copper, iron, zinc and lead
mines along the swift streams of
Central Europe.

In the 17th Century, discoveries established the facts that
water, when boiled, becames
steam; steam expands; there is
power in this expansive force;
when steam cools, it condenses;
and, if this process takes place in
a closed container, it will create a
vacuum.

Many add ideas came to be asfor 80,000 people.

It was water — - and the water-

and, it can be proceed as a closed container, it will create a vacuum.

Many odd ideas came to be associated with power prior to the Industrial Revolution. Some believed it immoral to drive faster than a horse can run. Others thought it "impossible" for anything to be more powerful, pound for pound, than a water buffalo. Still others thought it "insane" to try "driving through the air in a machine."

The age of invention dawned in different countries at different times, bringing with it new machines and toll and agricultural techniques. One great invention bred another, beginning in England in 1698 with the steam engine and the application in 1785 of steam power to drive machines for spinning and weaving.

French, German and Belgian inventors in the 1880's added the

for summing and weaving.

French, German and Belgian inventors in the 1880's added the water turbine internal combustion engine, and electrical generation, American internal combustion engine, and electrical generation, American internations like the cotton gin, steambent, reaper and telegraph provided the new astion with technological independence.

Today, human summer and commented by water on machines powered by water on machines powered by water on machines powered by the commentation of the commented by th

A key facility of the nation's essential power industry is the more than 100,000,000 wood utility poles now in use in the United

-electric wires that homes farms and industry. They are pressure-treated so that they give efficient service for more than 30

years.
All of the nation's electrical
utility companies (both public and
private) use chemically-treated
wood poles for more than 96%

Math Errors Delay Tax Refunds

Mathematical errors by Buffale Mathematical errors by Mathematical Errors by District taxpayers have caused 76 income tax refunds to be delayed so far this year, John E. Foley, Ruafflo District Director, Internal Revenue Service said today.

The mathematical errors, Mr. Foley said, will result in some tax-payers receiving a smaller or larger refund while others will receive a bill for additional tax due.

Under the IRS Automatic Data Processing System, computers verify mathematical computations. When an error is dectected, IRS must make the necessary correction before a refund can be issued.

In the first 56,841 returns processed so far at the IRS Service Center in Andover, Massachusetts, many types of errors other than mathematical have been detected.

marnemaucas nave neen detected.

These include 458 who failed to sign their return. No tax return is accepted without the taxpayer's signature; two signatures are required if it is a joint return. Unsigned returns have to be sent.

of their electricity delivery sys-tems. The reasons: safety, ec-onomy, easy serviceability and

tems. The reasons: safety, economy, easy serviceability and good insulation.

Too, more and more atomic power plants are producing electricity in the United States. Because it needs no oxygen to consume its atomic fuel, the nuclear furnace or reactor, is particularly suited to provide steam for submarine tubines.

Lest the spectacular advances made in power awe the individual, he might pause and reflect upon a saying from the Bible. "The race is not to the swift, nor the battle to the strong," according to Ecclesiastes. Such a sentement can only temper what in many instance has become man's worship of power.

HEALTH

Counting calories is a favorite

The term "calory" is used as a unit in expressing the energyproducing value of food. When we say that a tablespoon of honey

pastime among those of us who

contains about 100 calories, means that the honey, when utilized by the tissues of the body, will release that amount of energy to be expended in bodily activity. The usual weight-reduction

of sold to maintain the state action of the or two pounds lost per week is achieved by a daily intake of 500 to 1,000 calories less than the state action of the state of the

weight at which reducing was

begun
The American Medical Associates is being health book. Today a Health Guide points out that
the control of the smallest practical intake that can provide the recommended that allow-

es of essential minerals and vitamins through usual feed sources. For children, the mini-mum figure on which to lose weight is close to 1,800 calories,

with 1,000 often red

vant to lose weight.

and SAFETY

from the AMERICAN MEDICAL ASSOCIATION 535 N. DEARBORN STREET CHICAGO, ILLINOIS 60610

Cut Calory Intake

To Trim Waistline

back to taxpayers for signature before refunds can be processed. Processing of 701 other returns were delayed because required W-2 Forms were missing.

Mr. Foley advise taxpayers to include a W-2 Form from each employer for whom they worked. Employees who lose their W-2 Form should get a duplicate copy from their employer.

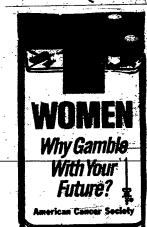
Mr. Foley asked taxpayers to use the Form 1040 pre-addressed name label that came with their return. The label contains information vital to the processing of the return including name, address and Social Security number.

Taxpayers who detect an error

dress and Social Security number.

Tarpayers who detect an error on the label should correct it on the label itself. Use of the label allows IRS to process the return more speedily than those without name labels.

The IRS Service Center in Andover, Mass, up to last week had processed 5,207 returns of Buffalo taxpayers due refunds totaling \$225,379.87.



Conservation Department. Urges You To Keep Your Dog Confined

Conservation Defartment Reg-Conservation Behavment Regional Gaine Managers, keeping an
eye on debr wintering conditions
in the upstate New York area, report that all regions continue to
have evidence of dog chasing deer
although the problem mas easied
in the last week or two.

Weather conditions have improved to the point where it is not to t

decreased in most areas leaving the ground here of many south-faster elopes in lowland areas.

in addition to deer killed by dega there have been reports of deer struck by cars and saimals disabled on ice-covered lakes and

According to the observation Department the problem of degachesing and killing deer is a serious one. The Department urged all deg owners to either control of confine their pets during the winter months.

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Citizens of Tomorrow



Ronald 6, Penny 5, Pammy 4, Billy 3, children of Mr. and Mrs. Renald La Glover of 5/1 Rochambeau Ave., Andover



Topy, 4 Jeffrey 3, children of Mr. and Mrs. Paul Ordiway, 26 Rochambeau Avenue, And-



Francis, 4 Michael 21/2, Gerald 11 mo., children of Mr. and Mrs. Leo D. Joyce of Greenwood Street, Andover



Sharon Anita, 41/4, Helena 24; children of Mr. and Mrs. Richard Davis of 8 Hill Street,



Warman 10, Eddie, 2, child n of Mr. and Mrs. Dort Olds



many V. Wiery S; efficen

themselves to short-term, intensive

tionably have helped many per-

sons to lose weight. Although some of these preparations combine the merits of economy, acceptability and nutritional balance, they lend

weight for. This only pos the day of reckoning who set return to usual food-

Calcus shares will help guide you in determining what you can eat med in what quantity, to main-tantific our desired daily instale. diet specialists now y, rather than two or three large es. Others favor periods of co

ensure a margin of micty.
But all of usare differen mitmum with your physician. He can help you arrive at a reasonable frome, permitting you to also weight standily and gradu-ally, and at the same time main-tain good health and not go.

Whatever program your phy-uclea streets to you here is an uniformed thing to be subtr estatus de count. To k we must expend more energy we take the