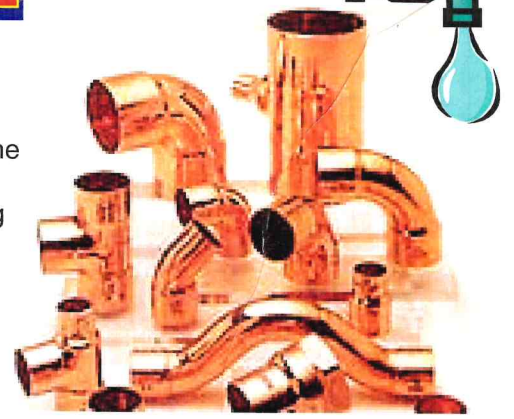


The Mulvaney Pipeline

COPPER PLUMBING



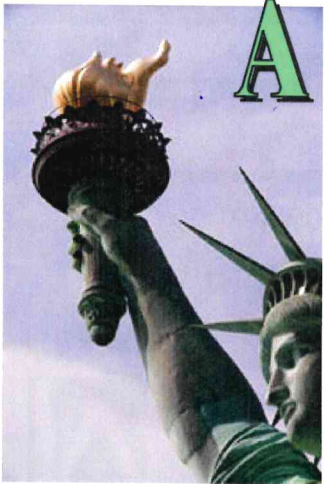
This year marks the 75th anniversary of copper tubing. Although it may be impossible to determine the exact location of the first all-copper plumbing system, evidence indicates that it occurred sometime around 1927-28. Copper helps to keep us cool, warm, clean and refreshed. Due to its high strength, its durability (it's the only plumbing tube with a 50-year warranty), and its superior heat-transfer capabilities, copper has long been the material of choice for both residential and commercial plumbing and heating systems.

Throughout history, many materials have been used to carry water. Wood, clay, bamboo, lead, iron and steel have all had their day - and their problems. Wood rots, clay collapses, iron and steel rust, and water and food vessels made of lead may have even contributed to the fall of the Roman Empire. Historians have long believed that the effects of lead poisoning were widespread during Roman times.

Plastic is the latest material on the plumbing scene, but its short history has included troubles with weak joints, pipe failures and repair bills. More recent entries into the plastic plumbing arena have been more successful and appear to be a reasonable alternative for the residential market. When it comes to water distribution today, copper is the quality standard accepted by building codes all over the country. When compared to other plumbing materials, the health, safety and economic benefits of copper are significant. Copper is impermeable and biostatic - contaminants don't penetrate it, and copper surfaces actually inhibit the growth of harmful bacteria. Copper tubing and fittings won't burn or melt in a fire. And, in the long run, the cost of copper plumbing systems is equal to or less than other materials when repairs over the life of the materials are factored in.

The most dramatic indicator that copper tubing is slowly being supplanted by modern plastics, is the drop in U.S. copper usage over the past two years. By far the plumbing industry is the largest single consumer of copper. Over 46% of all copper usage in the U.S. has gone into plumbing systems. Electrical systems usage is a distant 2nd at just under 23%.

A truly amazing and durable metal



Through one hundred years of biting sea winds, driving rains and beating sun, the copper skin of the Statue of Liberty not only has grown more beautiful but also has remained virtually intact.

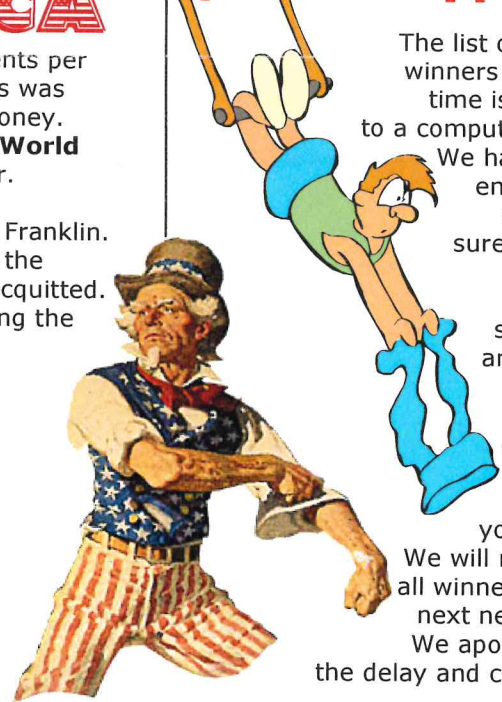
While a glance at the Statue's rich, green patina provides proof of copper's enduring good looks, closer analysis shows that weathering and oxidation of the copper skin has amounted to just .005 of an inch in a century. For this reason, the copper skin was one of the few major elements of the Statue that did not need to be significantly rebuilt or completely replaced when the Statue was renovated for its centennial. The only copper part of the Statue that required renovation was the torch section, which was rebuilt with new copper and patinated before installation to match the rich, green color of the existing copper - testimony to copper's unique ability to grow more attractive over the years.

Copper played a key role in the restoration of the Statue inside, as well as outside. High-alloy copper saddles and rivets now secure the copper skin to the skeleton underneath. The copper fastenings ensure structural integrity and, as part of the total materials system, guard against any galvanic reaction problems.

HAPPY BIRTHDAY AMERICA

- **There were two Boston tea parties** - Bostonians disguised as Mohawk Indians, protested the 3 cents per pound British tax on tea by dumping it into Boston Harbor on December 16, 1773. Few know that this was repeated on March 7, 1774. The total cost to the British in tea and taxes was \$3 million in modern money.
- **In 1776 Americans had the highest standard of living and the lowest taxes in the Western World** - Many of those in the Colonies were thriving, with some making today's equivalent of \$500,000 a year.
- **Benjamin Franklin wrote the first Declaration of Independence in 1775** - The Declaration of Independence was rewritten by Thomas Jefferson in 1776, with some astute editorial suggestions by Franklin.
- **John Adams defended British Soldiers!** Nine British soldiers were charged with murder following the Boston Massacre. Future President John Adams took up their defense and ultimately got all but two acquitted.
- **Benedict Arnold was the best general in the Continental Army** - "Without Benedict Arnold during the first three years of the war, we would have lost the Revolution." Ironically, Arnold switched sides in 1780 partly because he disapproved of our alliance with the French.
- **There were women in the Continental Army who saw combat** - The best known is Mary Ludwig Hays, nicknamed "Molly Pitcher."
- **George Washington was the best spymaster in American History** - He ran espionage rings in British-held New York and Philadelphia, and the man who supposedly could not tell a lie, was a genius at disinformation.
- **In 1779, there were more Americans fighting with the British than with Washington** - 21 regiments (estimated to total 6,500 to 8,000 men) of loyalists were in the British army. Washington reported a field army of 3,468. About a third of all Americans opposed the Revolution.
- **At Yorktown NY, (the victory that won the war), French soldiers outnumbered Americans almost three to one** - Washington had 11,000 men in the battle, while the French fielded 29,000 soldiers and sailors.

Oops! We slipped up.



The list of contest winners from last time is lost due to a computer glitch! We have some entries, but we're not sure we have them all. If you submitted an answer, please contact our office to confirm your entry. We will recognize all winners in the next newsletter. We apologize for the delay and confusion.



Riddle me this...

Just Solve this RIDDLE and WIN dinner for two.

There is a thing that nothing is, and yet it has a name. It's sometimes big and sometimes small, joins our talks and joins our sports, and plays at every game?

e-mail or FAX your answer to our office. If more than one correct entry is received, a winner will be selected at random.

If sending in an answer by e-mail please be sure to put "Newsletter Contest" in the subject line of the message.

Fly High



and Proud

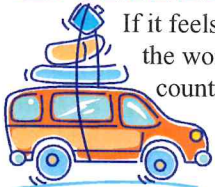
What's Goin' On?

- Jun 26th - Jun 30th 2004 ASHRAE Annual Meeting
Nashville, TN
- Aug 26th - Aug 28th AIA N.Y.S. Convention
Ithaca, NY
- Sep 22nd - Sep 23rd 2004 World Energy Engineering Conference - Nashville, TN
- Oct 14th - Oct 16th 2004 ISH North America - HVAC & Plumbing Show - Boston, MA
- Oct 17th - Oct 19th 2004 IFMA World Place
Salt Lake City, UT
- Oct 26th - Oct 27th ACCA Commercial Contracting Roundtable Baltimore, MD

Points to Ponder

- Today lemons are used to wash dishes, and lemonade is made with artificial flavors.
- It doesn't matter what temperature the room is. It's always room-temperature
- It is better to be hated for what you are than to be loved for what you are not.
- You can tell the quality of a person by how they treat people they don't need.

Summer Vacation Time



If it feels like you're stuck behind your desk on a sunny summer day while the rest of the world is on vacation, that's because you are and it is. Few other industrialized countries have as little vacation time as America. This year the average American can expect about 2 weeks of vacation. Most of our counterparts in Europe will average 4 to 5 weeks, while the average Japanese worker will be expecting 3 to 4 weeks vacation. Those lucky enough to enjoy getting away this year will experience higher travel expenses due to fuel costs. The good news is that lodging expenses are down 6% over last year. Some of the best deals this year are found as special packages at the "destination parks" such as Disney, Hershey Park, etc. Whatever time you do get off, be sure to enjoy every day!

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Happy July 4th