Uncle Jim Says

Tests at one experiment station show that lime and sweet clover over a period of years has boosted corn yields from 39 bushels to 63 bushels and has cut costs from 64 cents a bushel to 47 cents a bushel.

Christmas Carol Candlelight Service

A Christmas Carol-Candle light Service will be held in Saint Augustine Episcopal Church, at St. Augustine, this county on Tuesday evening the 27th instant, at eight o'clock.

The Rev. L. Irving Insley, rector of St. Augustine Parish, will be in charge of the service. The Rev. Joseph C. Wood, of The Cathedral of St. John, Wilmington, Del., will deliver the sermon. Miss Sarah Hudson White Associate American Guild of Organists, also of Wilmington will be the organist and choir director.

The records of St. Augustine's date from 1692 at which time it was a chapel-of-ease called (and spelled) "The Mannour Chapple" and at that early date this section was known as the Western Wilderness and Indians roamed its forests.

The most precious element of any historic edifice is its numerous human associations and St. Augustine's has been the place of worship of men and women in all walks of life for over two hundred forty-six years and through those many years, some of them years of Indian treachery and many wars, brave clergymen have served the church faithfully. Among them, no doubt, the most noted was the Rev. Joseph Coudon (1789-1792) who was the first to be ordained in the United States. Among the distinguished men of provincial and colonial times who worshipped there are: Colonel Casparus Augustine Herman, son of the founder of Bohemia Manor; Richard Bassett, of Bohemia Manor later of Delaware and signer of the Constitution; Captain Albert de Coursey, Revolutionary hero who raised his own company of men for that renowned Maryland regiment which was the first to cross swords with the British and James Rumsey (lately proven) inventor of the steam boat.

Among the heroic dead buried in the cemetery are officers and enlisted men of all the wars in which the United States has participated.

An interesting excerpt from Major Andre's Journal quoted by the Honorable Edward W. Cooch, Lieutenant Governor of Delaware is: "General Grey saw only a small body of Rebels at Cecil Church who first drew up and immediately after ran off. Two pairs of Colours were found in the Church several remained."
all quitted their houses but at Cecil Church. The inhabitants on the road

Under date of 1791 a manuscript map of Bohemia Manor (in the possession of Mr. James W. Foster, Editor of the Maryland Historical Magazine) clearly marks the church and gives it the name of Bohemia Church. So the Church has had, according to indisputable records, four names.

It stands to-day, with its historic "Glowing white cross" quaintly beautiful in its setting of old shade trees. The marked simplicity of its interior; the box pews with swinging doors; the high arched ceiling and the huge white altar testify to its antiquity. The pewter alms basins are dated 1748.

Mrs. Effie de Coursey Le Fevre, a life long member of the church and an active member of The Maryland Historical Society, is sponsoring the service.

MD. Unemployment Compensation Board

Baltimore, Dec. 14.—Arrival of the new year, claims officials of the maryland Unemployment Compensation Board suggest, may bring to the Employment offices many who are under the erroneous impression that the calendar year and the worker's benefit year are necessarily the same. They are not.

The calendar year and the benefit year for the unemployed have nothing to do with one another. Benefit year means the twelve-month period beginning with the week for which benefits were paid in 1938. This may have been as early as January 18, in the event that the first application was filed on January 3. The two weeks waiting period brought the beginning of the first compensable week to January 18.

If a worker has remaining wage credits entitling him to more than he received in 1938, is unemployed on or after January 1, he had best call at the Employment office the first week in January and state his case—if he filed on January 3 this year. But, as stated, the calendar year has nothing to do with it. For if he did not file his first claim until April then his benefit year will not end until April 1939.

There are, in such cases, complicated questions involved and the claimant should, when his benefit year has expired, seek information at the Employment office.

School Attendance for November

ONE ROOM SCHOOLS	
Charlestown	98.1
Wesley	97.5
Fingerboard	96.9
Johnson	96.9
Pierce's Neck	96.5
Pleasant Hill	95.7
Pilot	95.0
Jefferson	94.9
Union	94.8
Hart's	94.3
Jackson	93.6
Chapel	92.3
New Valley	91.5
Liberty Grove	90.1
Fair Hill	89.3
Blake	89.0
Pond's Neck	88.2
Warwick	87.0
Principio	86.5
Rowlandville	84.2
Marion	84.2
Oakwood	82.0
TWO ROOM SCHOOLS	
Providence	98.0
Elk Mills	95.6
Perry Point	94.6
Cherry Hill	90.3
Leeds	90.2
Colora	87.2
GRADED SCHOOLS	
Chesapeake City	94.4
Rising Sun	93.8
Elkton Elementary	92.9
North East	92.7
Calvert	92.5
Cecilton	92.0
Perryville	91.5
HIGH SCHOOLS	
Kenmore	96.2
North East	94.0
Chesapeake City	93.9
Rising Sun	93.5
Calvert	93.1
Elkton	92.5
Perryville	92.1
Cecilton	90.3
COLORED SCHOOLS	
Wilson	98.4
Cokesbury	97.5
Elkton	95.7
Port Deposit	95.5
North East	94.2
Conowingo	93.4
Cecilton	89.6
Chesapeake City	88.8
Cedar Hill	86.2
Elkton Colored High School	85.0

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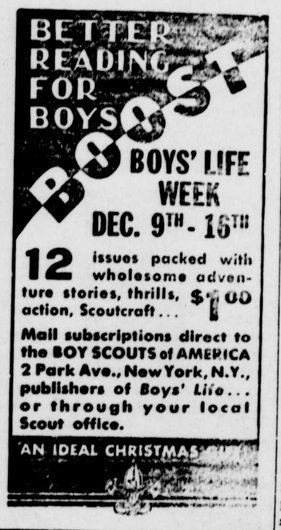

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Shifting of Atoms Brings Discovery of Hard Copper

PITTSBURGH—'Hard copper,' one of the goals sought by the alchemists of past centuries, has been made in the laboratories of Westinghouse.

The story is one of juggled atoms and careful control of alloy metals and heat, to result in Cupaloy, a new metal, the closest yet made to being pure copper with the strength of steel.

Staging a laboratory battle of metals, researchers placed a half-inch bar of Cupaloy against a bar of standard hot-steel structural steel and squeezed the two together under a hydraulic press. Engraved insignia on the Cupaloy sample made a deep indentation into the steel, but the Cupaloy was scarcely marked. The account reporting details of this new metal is published in the Electric Journal.

It seems the original problem which gave rise to the new metal was the search for an electrode metal that could withstand temperature and at the same time conduct electricity efficiently. When placed in service, Cupaloy welding tips have shown a service life several times greater than pure copper and from 50 to 200 per cent longer than that of other low resistance alloys.

The search was initiated five years ago by P. H. Brace, consulting metallurgist of the Westinghouse Company. Plans are now on foot to use Cupaloy for many other purposes besides welding electrodes. It serves excellently for slip rings for generator rotors, cylinder heads in internal combustion engines and fuse clips in high tension switchig devices.

HELP OF CHROMIUM

The metals used by Dr. Brace and his colleagues for Cupaloy are copper, chromium and silver melted in just the right proportions and at just the right temperature. By cold-working, pure copper can be hardened to a considerable degree, but this hardness is lost at relatively low temperatures. Now Cupaloy comes within something less than one per cent of answering this metal riddle of the ages.

Researchers discovered first that alloys depend for the qualities upon the arrangement of the atoms, and then they learned that the arrangement of atoms in the crystal-line structure of alloys is profoundly affected by heat treatment. These atoms form regular geometric patterns, but in some cases where the alloy consists of two kinds of atoms, they will occupy their places at random, without order.

In Cupaloy, the chromium atoms have been caused to group themselves to form billions of tiny invisible crystallites distributed quite uniformly throughout the mass of the metal. It is this peculiar arrangement of the chromium atoms which makes the new metal hard. The few silver atoms simply act as stabilizers of the alloy after it has been temper-hardened and cold-drawn, thus increasing its resistance to the softening effects of long exposure at high temperatures.

The space lattices of the atoms in copper look like cubes, according to Mr. Brace—that is, they would if it were possible to see them, but even the world's most powerful microscope wouldn't begin to render atoms visible. Therefore, researchers radiate the crystals with short-wave beams of X-rays and then determine the space distances between the atoms by measuring the angles between the various reflected beams.

SLIGHT ALLOY

If pure copper is squeezed or pounded, its atom cubes are deformed elastically and then whole layers of cubes slip like playing cards in a deck that has been pushed along the table. Alloy the copper with a small amount of another metal with which it can form a solid solution and the story is different.

The atoms of the foreign metal replace the copper atoms at some of the points in the space lattices and give the effect of roughening the slip planes. Higher stresses are therefore required to produce slip, and the hardness and strength of the alloy are correspondingly greater.

When Cupaloy is suddenly chilled from a temperature of some 1800 degrees Fahrenheit, it forms a solid solution. By maintaining this alloy at 842 degrees Fahrenheit for 16 to 24 hours, says Mr. Brace, the chromium atoms tend to flock by themselves, forming microscopic crystallites which disturb the regularity of the copper lattice. The crystallites and the disturbed metal about them act to key together the slip planes, instead of merely roughening them. One result is to make the alloy so strong that the tensile stress required to produce a plastic deformation of one part in 10,000 is about 25,000 pounds per square inch as compared with something like 4,000 pounds required to deform the alloy in its solid solution state.

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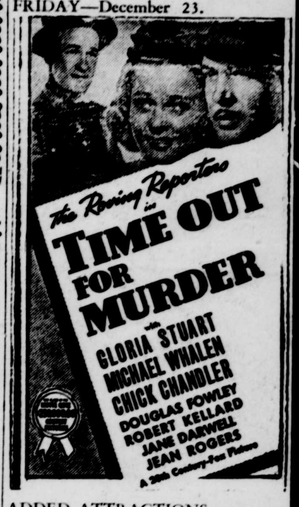
WEDNESDAY—THURSDAY—
December 21-22

ADDED ATTRACTIONS—
Cartoon, "Little Hiawatha, "Treasure Chest," "Return of the Buffalo," Metro News.

FRIDAY—December 23.



ADDED ATTRACTIONS—
Musical Comedy, "Bill Rose's Casa Manana Revue," Chapter Play Nois, "Flash Gordon's Trip to Mars," Universal News.

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ADDED ATTRACTIONS—
Cartoon, "The Cat and the Bell," Going Places, Chapter Play Nois, "Flast Gordon's Trip to Mars," Universal News.

MATINEE AT 2 P. M.

COMING ATTRACTIONS—
"Always in Trouble"
"Suez"
"Racket Busters"
"Laws of the Plains"