

manufacture of new goods right away, and to have a full line of samples ready for this fall's trade.

Mr. R. Y. Ellis, of the firm of P. W. Ellis & Co., Wholesale Jewelers of this city left for Europe last week on the business of the firm. Mr. Ellis proposes visiting the markets of England, France and Switzerland before his return. We wish him a safe and prosperous journey.

THE men, Miller and Webb who were arrested in Kingston some weeks ago for the robbery from Messrs. Lee & Chillas of this city were tried at the late assizes and found guilty. The judge sentenced them each to three years in the Provincial Penitentiary. Serves them right say we.

THE STOCK of L. Atkinson, jeweler, of Newmarket was sold at Sheriff's sale at the Court House, Toronto, on the 27th inst. for the benefit of his creditors. It was put up *en bloc*, and after some spirited bidding realized the exceedingly high price of sixty-three cents on the dollar, the purchasers being Messrs. E. & A. Gunther & C. & J. Allen, of Toronto.

NEW HATS are all the go for election bets, and as a consequence we see hundreds of them about since that event was decided. This is all right for the hatters, but couldn't the jewelry trade manage to shunt the public on to some article of jewelry instead of hats? If it could be done, it would liven trade in these idle dog days.

A MARK OF RESPECT.—A pleasant affair took place at "The Club," Yonge Street, a few nights ago when Mr. Geo. Fitzsimmons, who is about starting business in Guelph, was entertained by his friends. He was presented with a purse of \$100 and an illuminated address. Mr. Fitzsimmons carries with him to the Royal City the best wishes of a large circle of friends.

JEWELERS as a rule are not rabid politicians, and seldom take very active interest in the politics of the country. In the late elections an exception might have been found in the person of Mr. S. T. Culp, wholesale jeweler, of this city, who not only composed a campaign song in favor of John A. and the N. P., but had published and distributed several thousand copies of it at his own expense. In addition to this he spent two weeks stumping the Welland district on behalf of the N. P. candidate. Although untrained, Mr. Culp is an orator of no mean ability, and it is more than hinted that Mr. Osler's defeat was mainly owing to the brilliant defence of the present tariff by the Toronto jeweler. Although we do not take much stock in politics, we must congratulate Mr. Culp on his brilliant debut as a public orator.

REFERRING to our old townsman, the Sydney (N. S. W.) *Herald* says, "At the Athenaeum Club, yesterday, a banquet was given to Mr. Donald Manson, representative of the Waltham Watch Company, on the occasion of his leaving *en route* to the United States, per City of New York. The chair was taken by M. Hugh George, who proposed the health of "The Queen," of "The President of the United States," and of "The Guest of the evening." The chairman expatiated on the energy, enterprise, and courtesy which has been

shown by Mr. Manson during his sojourn in these colonies, and the toast of his health was drunk with enthusiasm by the company present. The chairman assured Mr. Manson that he would leave the country with the best wishes, not only of those present, but also of a large section of the people of the Australian colonies. Mr. Manson replied in appropriate terms, and the company separated after having spent a very pleasant evening.

JEWELERS' PICNIC.—The firm of P. W. Ellis & Co., manufacturing jewellers of this city, gave their first annual picnic last week to their employees and friends, numbering over 120, who left by the steamer McEdwards, especially chartered for the occasion, to Victoria Park, accompanied by a full string band. A most enjoyable day was spent, the committee having provided every variety of amusement, including dancing, football, cricket, croquet, and a good programme of athletic sports, to the winner of which valuable prizes were given. The football match was between the gold chain makers and jewelers on the one side, and the watchmakers, engravers, polishers, and clerks on the other, and resulted in a draw. An amusing feature of the athletic sports was a quarter mile walking race between the young lady employees of the firm. Dinner and supper had been provided for the party. After partaking of the latter the evening was spent in songs, recitations and speeches. The party returned about ten o'clock highly pleased with the day's outing.

THE EMPLOYEES of one of our large fancy goods and jewelry importing firms recently held a very successful rowing regatta on the bay. Much interest was manifested in the event, from the fact that a determined attack was to be made on the record, as several of the contestants had made remarkable private trials. These mysterious rumors went the round of the sporting fraternity, and on the eventful evening a large number assembled on the bay to witness the exciting struggle. A good start was obtained, and for about two hundred yards but little difference was noticeable in their relative positions. The road representatives here commenced to weaken owing so we have been informed, to over-training, and the home men commenced to forge ahead. One of these became unseated presumably from undue pressure, and it now became a question of the survival of the fittest, which in a short time was decided by the cool and collected jewelry manager crossing the line with a good three lengths to his credit. It is needless for any comment as to time. The record at the close of the season will plainly show what has been accomplished.

WORKSHOP NOTES.

ANOTHER alloy consists of copper and nickel, and evinces far more powers of resistance than the ordinary alloy of brass and copper; it is gradually being introduced into the manufacture of articles of commerce.

STAMPING COLOR.—A color that dries slowly upon the color pad, yet is quickly absorbed by the paper is preferred, of 16 parts firm aniline color (blue, violet, red, etc.), 7 glycerine, 3 syrup, and

80 distilled water. The aniline color is dissolved in the hot water, and the other parts are added while stirring.

NEW ALLOY.—The *Revue Chronom.* publishes a recipe of an English alloy, remarkable for its conducting, malleable, and permanent properties. An analysis by Mr. Philippa proved it to be composed of, platinum, 80,000; iridium, 19,079; rhodium, 0,122; iron, 0,093; ruthenium, 0,046 parts—100,005 parts.

ORIGIN OF DIAMOND.—Mr. J. A. Roord Smith publishes in the *Archives Neerlandaises des Sciences exactes*, a treatise on the diamond mines of South Africa. He states that the diamond is found in a primitive gangue of a volcanic origin; the presence of a bicarbonaceous silicate of lime is a characteristic sign of these mines, and deems them to be extinct craters of volcanoes. His hypothesis is that the diamond is of volcanic origin, and formed by the assistance of organic matter under the influence of great pressure and a high temperature. The late artificial production of diamonds appears to favor this view.

It has been found that by an addition of from 1 to 13 per cent of phosphorus to bronze, a very desirable alloy is produced, different in appearance and properties from the common bronze. It assumes an extra degree of hardness, which permits it to be employed with an advantage in the mechanical arts. Many parts of machinery bearings, knobs, drawers, slides, etc., exposed to great wear and tear, may be manufactured therefrom.

ETCHING UPON METALS.—Cover the surface of the metal on which you desire to etch, with white melted wax, when cold, trace the design or character upon it with a sharp point, which penetrates through the wax layer. Into these lines pour either, very strong vinegar or pure acetic acid, and spread upon it a powder made of 100 grams rock alum, and the same weight of sulphate of copper, previously calcined in a crucible in the fire. To have the engraving deeper, as soon as the effect of the first mordant is spent, wash the wax in cold water, without rubbing, however, let it dry and repeat the operation. By renewing it as often as necessary, the workman has it in his power to regulate the depth of the engraving according to his liking.

TO MAKE MOCK CORAL.—Two sticks red sealing wax, $\frac{1}{2}$ oz. white bee's wax; melt all in a tin cup, then have some small brambles, clean off the bark well, washed in turpentine. While wax is hot plunge in. In drawing out put in cold water. This coral can be fashioned to any design, and is of a deep scarlet color, and is used for ear rings and breast pins. If too brittle add a little more bee's wax.

TO MAKE MOCK DIAMONDS.—Take half lb. crystallized alum, dissolve in boiling water, when thoroughly dissolved, add small piece of gum arabic and get fine sieve in pan and with one get cold water. If any of the above crystals are larger than what is requisite for medium sizes, you can dissolve to change the color, to burned amber or burned cochineal. For sappires they have a pretty effect and if arranged in clusters or single settings, with pass light will almost defy an expert to locate their value.