

THE MINING REVIEW

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ROBERTS-AUSTEN'S DISCOVERY.

Prof. Roberts-Austen's discoveries on the inter-diffusibility of metals have been taken up by the Royal Society of England. The facts have been to a large extent known to savants before, but now the results are made more clear. It is shown that solid bodies may be made to mix themselves as if they were living creatures. Prof. Roberts-Austen has in fact discovered pieces of metal engaged in the process of mixing themselves up with each other. The interest of this is that the interdiffusion has been found to take place when the metals were melted and though this property in metals, to be capable of mixing themselves one to the other when cold, has been talked about before, nothing so clearly proved as it has hitherto been at the service of metallurgists and chemists as the facts adduced by Prof. Roberts-Austen show that when clean surfaces of lead and tin are held together in the absence of air, at a temperature of 10 degrees for four days, they unite firmly and cannot be separated by a force equal to one-third of the breaking strain of the lead. The professor has also proved that if a plate of gold be laid under a piece of lead about three-tenths of an inch thick, in ten days the gold will have risen and diffused itself to the top of the other metal in a very appreciable quantity.

MAKING ICE LOCATIONS.

The wealth of the Sultana, says a recent Rat Portage, Ontario, despatch, has inflated the value of the waters which wash the shores of the island made famous by the mine which bears its name. To the north of Sultana island are extensive marshes. Pine Portage bay separates the mainland from the island. The Pine Portage mine lies northeast of the Sultana on the mainland. A large staff of surveyors are now employed surveying on the ice which covers the marshes and Pine Portage bay. Thousands of acres of water locations have already been surveyed. A responsible mining man declares that in less than a week the entire water surroundings of Sultana island, and all of Pine Portage bay, will have been surveyed. The idea prevails that rich veins extend in various directions from this island; that by the use of diamond drills these veins may be located and afterwards worked by building cofferdams.

MARKET REPORT.

The movement in stocks during the week has been good. The newer stocks continue to sell well, and the standard properties, in which interest seemed to lag somewhat for a few weeks, are strengthening in a very noticeable degree. There has been a rush for Victory-Triumph during the last few days, not only in anticipation of the advance, but for the reason that there is a body of pay ore in the tunnel. The stock is now 15 cents, and will shortly be much higher. Colonna's improvement has continued, and the stock is now on the boards at 26, and is hard to obtain. Crown Point has risen to 53. Deer Park sells down to 21 1/2, but there is little on the market at that figure. West Le Roi and Josie has fluctuated considerably, and is now held at 16 1/2. O. K. has receded to 27 1/2. Sales of Silver Bell are reported good, and Ibcx, International, Red Eagle, Cambridge, Big Three, Canadian

Goldfields, Waneta-Trail Creek and Pure Gold are selling freely.

COMPANIES.	CAPITALIZATION.	PAY VALUE	MARKET PRICE.
Alberta.....	\$1,000,000	\$ 1 00	t 15
Alamo.....	500,000	\$ 1 00	*
Butte Gold Copper.....	1,000,000	1 00	4
Beaver.....	750,000	1 00	10
Big Chief.....	1,000,000	1 00	
Brit.-Canadian Goldfields.....	2,500,000	1 00	t 12 1/2
B. C. Gold King.....	1,000,000	1 00	10
Bluebird.....	600,000	1 00	10
Bruce.....	1,000,000	1 00	10
Big Three.....	3,500,000	1 00	4
Caledonia Con.....	500,000	1 00	t 9
California.....	2,500,000	1 00	t 15
Cambridge.....	1,000,000	1 00	t 08
C & C.....	500,000	1 00	*
Centre Star.....	500,000	1 00	*
Celtic Queen.....	750,000	1 00	t 04 1/2
Commander.....	500,000	1 00	t 20
Crown Point.....	1,000,000	1 00	53
Colonna.....	1,000,000	1 00	26
Cariboo.....	800,000	1 00	48
Cumberland.....	500,000	1 00	*
Deer Park.....	1,000,000	1 00	21 1/2
Delacola.....	1,000,000	1 00	04 1/2
Eastern Star.....	500,000	1 00	20
Eric.....	1,000,000	1 00	07 1/2
Elise.....	1,000,000	1 00	t 15
Enterprise.....	1,000,000	1 00	*20
Eureka.....	500,000	1 00	t 05
Evening Star.....	1,000,000	1 00	13
Georgia.....	1,000,000	1 00	18
Good Hope.....	500,000	1 00	8
Gerrude.....	500,000	1 00	15
Golden Drip.....	500,000	1 00	15
Golden Queen.....	1,000,000	1 00	
Great Western.....	1,000,000	1 00	15
Grey Eagle.....	750,000	1 00	
High Ore.....	500,000	1 00	07 1/2
Homestake.....	1,000,000	1 00	17 1/2
Hall Mines.....	£300,000	£1	
Hilltop.....	1,000,000	1 00	t 10
Hattie Brown.....	1,000,000	1 00	7 1/2
Helen.....	600,000	1 00	7
Imperial.....	1,000,000	1 00	5 1/2
I. X. L.....	1,000,000	1 00	
Idaho.....	500,000	1 00	*
Iron Colt.....	1,000,000	1 00	t 20
Iron Horse.....	1,000,000	1 00	*20
Iron Mask.....	500,000	1 00	52 1/2
Ivanhoe.....	1,000,000	1 00	t 10
Josie.....	700,000	1 00	32 1/2
Jumbo.....	500,000	1 00	60
Juliet.....	1,000,000	1 00	t 12
Kohinoor.....	1,000,000	1 00	t 10
Kootenay-Columbia.....	40,000	100 00	*
Kootenay London.....	1,000,000	1 00	12 1/2
Le Roi.....	2,500,000	5 00	7 50*
Lily May.....	1,000,000	1 00	20
Mavflower.....	1,000,000	1 00	14 1/2
Monte Cristo.....	1,000,000	1 00	16
Mugwump.....	1,000,000	1 00	t 20
Monita.....	750,000	1 00	21
Minnesota.....	1,000,000	1 00	*
Morning Star.....	1,000,000	1 00	7 1/2
Northern Belle.....	1,000,000	1 00	t 15
Noble Five Con.....	1,200,000	1 00	64
Nest Egg Firefly.....	1,000,000	1 00	
Novelty.....	1,000,000	1 00	8 1/2
Old Ironsides.....	1,000,000	1 00	15
O. K.....	1,000,000	1 00	27 1/2
Orphan Boy.....	700,000	1 00	t 15
Palo Alto.....	1,000,000	1 00	8
Pure Gold.....	1,000,000	1 00	5
Phoenix.....	500,000	1 00	t 13
Poorman.....	500,000	1 00	8 1/2
Red Mountain View.....	1,000,000	1 00	12
Rosland, Red Mt.....	1,000,000	1 00	25
Rambler Con.....	1,000,000	1 00	*
R. E. Lee.....	2,000,000	1 00	15
Rochester.....	500,000	1 00	
Rosland Star.....	1,000,000	1 00	15
St. Elmo.....	1,000,000	1 00	10 1/2
Silver Bell.....	1,000,000	1 00	t 15
Silverine.....	500,000	1 00	8 1/2
Southern Cross & W Con.....	500,000	1 00	20
St. Paul.....	1,000,000	1 00	t 12 1/2
Stocan Star.....	500,000	50	2 35
Sunshine.....	500,000	10 00	*
Trail Mining Co.....	250,000	100 00	*
Union.....	600,000	1 00	*
Victory-Triumph.....	1,000,000	1 00	t 15
Virginia.....	500,000	1 00	17
War Eagle.....	500,000	1 00	
West Le Roi.....	500,000	1 00	16 1/2
Waneta and Trail Creek.....	1,000,000	1 00	10
White Bear.....	500,000	1 00	*
Young British America.....	1,000,000	1 00	6
Wonderful.....	1,000,000	1 00	10
Zilor.....	1,000,000	1 00	15

Dividend paying properties appear in italics. An asterisk denotes that there is no stock on the market. * denotes treasury stock.

WM. BENNISON. JNO. W. COVRR. H E. COVRR.

WM. BENNISON & CO.

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Rossland office: Columbia avenue, near Grand Union Hotel.

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MINES EXAMINED AND REPORTED ON.

SMITH-HEWITT BLOCK. | ROSSLAND, B. C.
Columbia Ave.

CERTIFICATE OF IMPROVEMENTS.

VICTORY MINERAL CLAIM.

Where located: On Sophie Mountain, in the Trail Creek Mining Division of West Kootenay, District of British Columbia.

TAKE notice that I, A. R. MacDonald, acting as Secretary of Victory-Triumph Gold Mining Company, Limited Liability, free miner's certificate number 77279, intend, sixty days from the date hereof, to apply to the Mining Recorder for a certificate of improvements for the purpose of obtaining a Crown grant of the above claim.

And further take notice, that action under section thirty-seven must be commenced before the issuance of such certificate of improvements.

Dated this 1st day of December, 1896. 12-2-96. A. R. MACDONALD.

A mill for the Orphan Boy has been purchased in San Francisco and will shortly be in operation. Very satisfactory results were obtained from tests of the ore made in San Francisco.