# Honors for Adelaide Man IMPORTANT ENGLISH POST

South Australia has turned out brillial men who have taken their place alongside world leaders in scientific, literary, and art circles. While the fame of the writer or namter is quickly broadenst over the world the scientist generally accomplishes his greatest work in silence, if not nearly

I wenty odd years ago William John McBride graduated in science at the Adetande University with first class honors in metallurgy and geology. Since that day and unobstrusively mustering one branch WHEAT he has steadily climbed the ladder, quietly



### Mr. W. J. McBride

who is about to proceed to London to mportant metallurgical undertake

of his science after another. Now a larger field is opening out. On February 12 Mr. McBride will leave Sydney by the Makura for London to continue investigation work.

A son of former Inspector W, J, Me-Bride, Mr. McBride was born at Glenelg. tie received his early education at the Kapunda Unley. Sturt street, and Grote street Schools. He matriculated from Christian Brothers' College and graduated at the University in 1898.

#### CLEVER METALLURGIST

Leaving the University his first work gicol collection at the museum of the School of Mines. A term as assayer and

near Paimer tollowed.

In J900 Mr. McBride joined the staff of the Broken Hill South mine as assayer, in 14 years he rose to the position of chief metallurgist. At the outbreak of war he was sent to Port Pirie to represent the great mining companies of Broken Hill at the smalters where concentrates were being smelted by the Broken Hill Proprietary Company on a partnership basis. When the Broken Hill Associated Smelters took over from the Broken Hill Proprietary in 1915. Mr. McBride collisted, leaving Australin with the lat Australian Tunnelling Company, a unit of Professor Sir Edgeworth David's famous mining corps.

Gallantry on Hill 60 brought Mr. Me-Bride an M.C. and a captainey. After a tour of Great Britain and America, in. which he investigated the latest developments in metallurgy. Mr. McBeide returned to Australia in 1919, and rejoined the kroken Hill South Company, In. company with Mr. Gilbert Ring he visited Burmah in 1920 to assist in conducting metallurgical investigations.

The teatment of zinc concentates was the next work which engaged the attention of Afr. McBride. In 1921 he joined Mr. Rigg in the service of the Ausociated Smelfers and Electrolytic Zine Company in connection with the developseed munufacture operations.

IMPORTANT SERVICES

riss appointment as engineer in charge the zinc rousing campaign for the Astrulytic Zinc Company tollowed in 1922, haled constling operations. He is now about to proceed to England, and will be with the Australian Ore and Metal. Company, Gresham House, London,

In addition to helping in the development of the flutation process at Broken Hill, Mr. McBride successfully gollaborated with Mr. Higgs in the progressive development and operation of blende equations formore, especially in those machanically operated and without the Messes. Right and McBride also developed to an unusual degree of expection the use of high grade alloy steel castings for service in blend roaster

Mr. McBride was formerly well known; in tennis and rifle shooting circles in Broken Hill, and achieved the distinction of making the highest score in the district championship meeting of the Rifle Association in 1914. For several years be was secretary of the Tennis Association.

Mr. McHride will be accompanied to-England by Mrs. McBride. He will proceed via America, where he will enquire into the latest developments in metal-

# MARKETING. DR. RICHARDSON'S REVIEW.

### Concluded from yesterday.

fluctuations in price.

lectively averages about 70 per cent, of contracting parties. that of the entire world.

world's supply of wheat and rye may millers, and professional speculators. The be mentioned:-

in amount of rainfall to which the wheat tor buys wheat for future delivery. He and rye regions are subject.

from variations in price.

3. New settlement-Increase of acreage resulting from settlement of new coun-

4. Competition of Other Crops.—Decrease of acreage due to planting of other crops when there is an unusual demand for livestock and animal products.

5. Improvements.—The continuous advance and improvement in methods of production, communication, and methods of transportation.

Among the causes which may effect a variation in the demand for wheat are: -1. War, which causes variation in the foreign demand.

2. Standard of Living.—The standard of living is rising, and this increases the demand for wheat, especially in rye producing countries.

3. Substitute for Rice.—The increasingly demand for wheat from Oriental countries, in which rice is being gradually replaced by wheat as a staple article of diet.

The fact that wheat is the staple article was assisting to rearrange the mineralo- of food in the nations of the greatest economic strength tends to keep the demand firm, whilst the fact that the world's mill superintendent at the Kriticoola mine supply of wheat comes from all quarters of the globe tends to prevent any shortage in the general supply.

When wheat prices fall so low that wheat production becomes unprofiable, capital tends to engage in the production of other crops which yield a larger return. When, on the other hand, wheat rises too high, other substitutes are used by the consumer. The demand, therefore. decreases, the price falls, and production is lessened. Thus the forces of supply and demand always seek equilibrium.

The average price of what cannot, therefore, be below the cost of production for any considerable period. On the other nand, the price cannot be above what the consumer is willing to pay. of production and value to the consumer are respectively the minimum and maximuni limits of price.

Improvements in production methods have decreased the cost of production, and have allowed a larger supply at a lower price to be placed on the market, and in consequence the demand has increased. and more wheat is consumed.

Communication and transportation become important factors in the price of wheat wherever export conditions . prevail. All markets are affected simultaneously by a change in either supply ment of sinc concentrates rousting and or demand. The only difference in price which should exist between any two markets, or between what the producer receives for wheat and what the consumer pays, is that resulting from transportation and commercial charges. When, however, a country consumes all the wheat and in 1924 he was appointed consulting within the country, provided there are metalograph to the Electrolytic Zino, no restrictions to trade, and the cost of production is not greater than the cost of importing grain. Some countries impose import duties on grain. The effect of this is to add the amount of the daty to the cost of production, and to make the local price equal to the price of wheat in the foreign market, plus the cost of importation and duty.

## The World's Wheat Markets.

Wheat prices are the result of supply of and demand for wheat in the great of fuel. No less successful is a special markets of the world, the chief are those at London, Liverpool, and Chicago, prices of wheat cannot be predicted from a knowledge of conditions in any one feeting the supply and demand over the con the exchange is 5,000 bushels. to forecast the probable mind of wheat may be bought on the floor of the war he

prices. Cables are continually parsing a sign, a nod, or a scrawl on a trail between great wheat markets and all parts card. The brokers use manual siens to of the world. News regarding the condi- | indicate the prices and question the tion of the wheat crop in the various are willing to operate on. Desite the regions of the world is received daily. On the noise in the pit is deafening. The receipt of such information as a drought of the institution depends on the accurain Canada or the United States, failure lous honesty of all its members, and it a of the monsoon in India, abundant falls more profitable for the operators to make of rain in Amstralia and Canada, a plague certain bonest unins then to destroy the of locusts in Russia, or the outbreak fungoid or insect pests in any wheatproducting country, the prices of wheat immediately rise or fall according to the relative importance attached to the news. The effect is to concentrate the pricedetermining influences in these world's markets.

Modern transportation, which enables the grower in Australia, Argentine, Canada, or India to send his wheat to London or Liverpool, and cable communication, which has eliminated the time element in the receipt of news, have resulted in the whole world becoming dependent for prices on these great markets, where grain traders, dealers, and speculators in wheat buy or sell according to their requirements, or according to their estimates of the probable world supply and demand.

#### Speculation and "Futurese"

In Liverpool and Chicago extensive trad-The price of wheat is determined by ing is done in what are known technically the world conditions of supply and de- as "futures' 'or "wheat options." Wheat mand. Wheat and rye are the world's is bought or sold for future delivery. The principal foodstuffs, and there is suffi- "future" is a contract for the future decient variation in supply and demand livery of wheat without reference to speof these commodities to cause great commercial body in a set form by which the conditions as to the unit of amount, In Europe the production of rye is ap- the quality, and the time of delivery are proximately equal to that of wheat, and fixed, and the determination of the total the production of both crops taken col- amount and the price is left open to the

The persons who buy and sell wheat on Among the causes of variation in the these exchanges are usually wheat dealers. speculators are divided into two classes-1. Climate-Variation in climate and "bulis" and "bears." The "bull" speculatakes the risk of a fall in price in order 2. Price-Variation in acreage, resulting that he may make a profit from a rise in price. The "bear" speculator short sells

> wheat, i.e., he sells wheat for forward delivery at a fixed price. He does not own wheat at the time he sells, but he expects duction and consumption in commodities to be able to buy it in the market at al into the most advantageous channels lower price before the expiry at his con-

> when reports of crop damage are recorded, ing and interpreting news of variations when droughts threaten to affect the in supply and demand, and a price is de world's wheat supply, or when any factors | termined which, with slight local varieoperate which tend to diminish the world's | Hons, prevails throughout the world. Spen wheat supply. On the other hand, when lation lessens fluctuations in price, for the reports of favorable rains, favorable crop short seller "keeps down prices by short reports, increased wheat shipments are re- sales and then keeps them strong by courceived the market becomes "bearish" and ing purchases."

> deal may settle the contract on the day cure control of the market and manipuof delivery in two ways-Delivery of the late it as they please. Manipulation may wheat or buying the same quantity of he made either from the "bull" or the wheat on the same exchange. If he buys "bear" side, but "bear" manipulations we wheat on the same exchange his perations rare. A successful "bear" manipulation are settled through the clearing house, consists in selling a commodity short in Only the difference in the cash cost of sufficient quantities to lower the price and the two transactions is paid. The great to cover the contracts at the low price. cereal market of the United States is in A sufficient volume of short sales will cothe building of the Chicago Board of press the crice, but the price will limbs change are the "wheat," "corn," and "cat" pits, where trading in cereals is conducted.

#### Chicago Wheat Pit.

The Chicago speculators are typical of the great wheat speculators of the world. Their facilities for acquiring information are unsurpassed. The daily weather map issued by the meteorological service informs them of the weather in each of the States of the Union. The experiment station reports and bulletins inform them of the damage done by insect and fungoid diseases. Their intelligence system keeps them posted regarding the progress of the wheat crop in other countries, and the cables inform them of the fluctuations in price in the principal markets. They have an intimate knowledge of the visible supplies of wheat stored in the world's great terminal elevators, and of the wheat being transported in car and vessel. The shipping companies afford them information regarding freight rates in all parts of the world. They are constantly determining the ratio between supply and demand, and from this form judgments as to the proj bable changes in price.

The Chicago Board of Trade is one of the largest organisations for dealing in wheat. Approximately 90 per cent. of the transactions of the "pit" are speculative. neither buyer nor seller expecting to receive or deliver a bushel of grain. said that 10,000,000 bushels of wheat have been sold in the Chicago pit in less than ten minutes. Through the courtesy of the Chicago Board of Trade the writer was able to visit the floor of the exchange and witness the operations of the traders in

the "corn" and "oat" pits during 1918. The wheat pit was closed for the duration of the war, as the Government had fixed the price of wheat at 9/2 per bushel for the 1918 and 1919 crops. The scenes in the corn and oat pits were very animated. From 9,30 a.m. to 1,30 p.m. each day the floor of the pits was pandemonium with the chorus of yelling and excital brokers buying and selling, and the scurrying of hundreds of massengers and satellites hastening to deliver to the brokers the buying and selling orders, with such variation in the market. From an elevated platform an official recorded every fluctuation in the market, and flashed the laformation to a series of electric "tickers, locality. The whole of the conditions of throughout the United States. The unit

institution by making dishonest ones,

#### The Function of Speculation,

It is sometimes stated that speculation on the great grain exchanges determines prices regardless of the law of supply and demand, and that high prices for con-

modities are often caused by the operation of speculators. Such an idea is erroneous, for the freer the competition between the buyers and sellers the more minutely is price regulated by demand and supply Nowhere is the competition between buyers and sellers keener and freer than on the world's great grain exchanges. By studying closely and accurately balancing the many intricate factors controlling supply and demand, the grain speculators are able to make fairly accurate estimates of future prices. The speculators buy and sell on their estimates of probable survey values. The most successful speculature are those who get first-hand intermation, and their success is dependent on the ascuracy of their estimates. The best facilities for securing early and reliable informs tion are to be found where speculation has been highly organised.

A committee of the British Association for the Advancement of Science in 1900, as a result of an investigation into the effect of "futures" on the prices of wheat and cotton, reported that the prices of commodities subject to dealings in "futures" were lowered both by the reduction of risks and the diminished cost of handling the commodity. "Futures" increase the frequency of price fluctuations, but decrease the range of these fluctuations. According to Dodlinger, "Speculation is the fly-wheel which imparts to the modern commercial machine a motion so uniform that all its parts operate continually and simultaneously. As men produce and consume, as well as exchange, acording to comparative prices, it also directs pro-

The effects of speculation are, therefore, beneficial to the community. Specific The market becomes "bullish" and strong | tors are the men best equipped for seem

The objection to speculation lies in the The operator who sells in a speculative fact that a group of individuals may On the floor of the Grain Ex diately rise again when the "bear" our mence buying. Attempts to municulate the "bull" side of the market are more common. "Bull" manipulations may result in corners. A successful corner results where the market is over-sold, that is, when the "bulls" have secured a considerable portion of the supplies and have induced so much short selling that the supplies in the market are insufficient to cover the volume of short contracts within the required time. Though successful corners in wheat were made in Chicago by Hurchison in 1888, and Leither in 1898, they are now almost impossible of accomplishment owing to the magnitude of the purchases which must be made, and because of the fact that when prices rise rapidly enormous supplies are rushed into the market from unexpected sources.

Though occasionally pernicious practices arise from speculation, it is now generally admitted that speculation in "intures" is beneficial to the community in so far as it tends to keep prices steady, and to direct production into the most advantageous channels.

High prices for our primary products should not blind the producers to the fact that markets for these commodities fluctuate rapidly and incessantly. conditions abroad influence the market immediately. Profitable prices this year will very probably excite the producers to greater activity, and there will be a general desire to increase output. Other countries will do likewise, and the upshot wi be an increased world production. Supply will overtake demand, and it is then that prices recede. Australia may not limit its production, but in increasing output producers will be serving their and Austraha's interests by paying greater attention to the quality of the output. We have seen abnormal prices in the past make our producers careless in their methods. They have been carried away by the thought that profitable prices would be maintained, and that because of that they could double their individual output at a higher cost and at a sacrifies of quality: But when the pendulum swings back, as it inevitably will, the producers are at the mercy of conditions of their own making They have on hand a large surplus of low quality products, which the world is adin urgent need of. They have "struck a bad year" by ruining a good market with

interior quality products;