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VOLUME VII

THE GENERAL THEORY OF EMPLOYMENT INTEREST AND MONEY

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current phenomenon; and if we reduce the marginal efficiency of capital to the same status, we cut ourselves off from taking any direct account of the influence of the future in our analysis of the existing equilibrium.

The fact that the assumptions of the static state often underlie present-day economic theory, imports into it a large element of unreality. But the introduction of the concepts of user cost and of the marginal efficiency of capital, as defined above, will have the effect, I think, of bringing it back to reality, whilst reducing to a minimum the necessary degree of adaptation.

It is by reason of the existence of durable equipment that the economic future is linked to the present. It is, therefore, consonant with, and agreeable to, our broad principles of thought, that the expectation of the future should affect the present through the demand price for durable equipment.

Chapter 12

THE STATE OF LONG-TERM EXPECTATION

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We have seen in the previous chapter that the scale of investment depends on the relation between the rate of interest and the schedule of the marginal efficiency of capital corresponding to different scales of current investment, whilst the marginal efficiency of capital depends on the relation between the supply price of a capital-asset and its prospective yield. In this chapter we shall consider in more detail some of the factors which determine the prospective yield of an asset.

state of psychological expectation which covers the and the changes in the wage-unit in terms of money which may occur during its life. We may sum up the during the life of the investment under consideration, stock of capital-assets and in the tastes of the consumer, the strength of effective demand from time to time latter are future changes in the type and quantity of the relatively larger assistance from capital. Amongst the goods which require for their efficient production a and the strength of the existing consumers' demand for types of capital-assets and of capital-assets in general certain, and partly future events which can only be which we can assume to be known more or less for first may be mentioned the existing stock of various prospective yields are based are partly existing facts forecasted with more or less confidence. Amongst the The considerations upon which expectations of

latter as being the state of long-term expectation;—as distinguished from the short-term expectation upon the basis of which a producer estimates what he will get for a product when it is finished if he decides to begin producing it to-day with the existing plant, which we examined in chapter 5.

Ι

It would be foolish, in forming our expectations, to attach great weight to matters which are very uncertain. It is reasonable, therefore, to be guided to a considerable degree by the facts about which we feel somewhat confident, even though they may be less decisively relevant to the issue than other facts about which our knowledge is vague and scanty. For this reason the facts of the existing situation enter, in a sense disproportionately, into the formation of our long-term expectations; our usual practice being to take the existing situation and to project it into the future, modified only to the extent that we have more or less definite reasons for expecting a change.

The state of long-term expectation, upon which our decisions are based, does not solely depend, therefore, on the most probable forecast we can make. It also depends on the confidence with which we make this forecast—on how highly we rate the likelihood of our best forecast turning out quite wrong. If we expect large changes but are very uncertain as to what precise form these changes will take, then our confidence will be weak.

The state of confidence, as they term it, is a matter to which practical men always pay the closest and most anxious attention. But economists have not analysed it carefully and have been content, as a rule, to discuss

LONG-TERM EXPECTATION

it in general terms. In particular it has not been made clear that its relevance to economic problems comes in through its important influence on the schedule of the marginal efficiency of capital. There are not two separate factors affecting the rate of investment, namely, the schedule of the marginal efficiency of capital and the state of confidence. The state of confidence is relevant because it is one of the major factors determining the former, which is the same thing as the investment demand-schedule.

There is, however, not much to be said about the state of confidence a priori. Our conclusions must mainly depend upon the actual observation of markets and business psychology. This is the reason why the ensuing digression is on a different level of abstraction from most of this book.

For convenience of exposition we shall assume in the following discussion of the state of confidence that there are no changes in the rate of interest; and we shall write, throughout the following sections, as if changes in the values of investments were solely due to changes in the expectation of their prospective yields and not at all to changes in the rate of interest at which these prospective yields are capitalised. The effect of changes in the rate of interest is, however, easily superimposed on the effect of changes in the state of confidence.

The outstanding fact is the extreme precariousness of the basis of knowledge on which our estimates of prospective yield have to be made. Our knowledge of the factors which will govern the yield of an investment some years hence is usually very slight and often negligible. If we speak frankly, we have to admit that our basis of knowledge for estimating the yield ten years hence of a railway, a copper mine, a textile factory, the goodwill of a patent medicine, an Atlantic

By 'very uncertain' I do not mean the same thing as 'very improbable'. Cf. my Treatise on Probability [JMK, vol. vIII], chap. 6, on 'The Weight of Arguments'.

any such estimate are often so much in the minority liner, a building in the City of London amounts to that their behaviour does not govern the market. hence. In fact, those who seriously attempt to make little and sometimes to nothing; or even five years

structive impulses who embarked on business as a way supply of individuals of sanguine temperament and conand associates, investment depended on a sufficient owned by those who undertook them or by their friends spective profit. The affair was partly a lottery, though of life, not really relying on a precise calculation of prowith the ultimate result largely governed by whether invested had exceeded, equalled or fallen short of the know whether the average results in terms of the sums would succeed. But even after the event no one would or below the average. Some would fail and some the abilities and character of the managers were above even during periods of progress and prosperity, have probable that the actual average results of investments, exploitation of natural resources and monopolies, it is prevailing rate of interest; though, if we exclude the ness men play a mixed game of skill and chance, the disappointed the hopes which prompted them. Busiaverage results of which to the players are not known result of cold calculation. apart) in constructing a factory, a railway, a mine or a temptation to take a chance, no satisfaction (profit by those who take a hand. If human nature felt no farm, there might not be much investment merely as a In former times, when enterprises were mainly

able, not only for the community as a whole, but also ownership and management which prevails to-day and a new factor of great importance has entered in, which fashioned type were, however, decisions largely irrevocsometimes tacilitates investment but sometimes adds with the development of organised investment markets, for the individual. With the separation between Decisions to invest in private business of the old-

LONG-TERM EXPECTATION

significant daily, even hourly, revaluations of existing investments carried out in practice? rather than by the genuine expectations of the pro-Stock Exchange as revealed in the price of shares, fessional entrepreneur.2 How then are these highly by the average expectation of those who deal on the profit. Thus certain classes of investment are governed project what may seem an extravagant sum, if it can whilst there is an inducement to spend on a new which a similar existing enterprise can be purchased; ing up a new enterprise at a cost greater than that at another, inevitably exert a decisive influence on the rate be floated off on the Stock Exchange at an immediate of current investment. For there is no sense in buildtransfers of old investments between one individual and and reconsider whether he should return to it later in after breakfast, could decide to remove his capital from the week. But the daily revaluations of the Stock the farming business between 10 and 11 in the morning Exchange, though they are primarily made to facilitate It is as though a farmer, having tapped his barometer the community as a whole) to revise his commitments. frequent opportunity to the individual (though not to investments every day and the revaluations give a committed. But the Stock Exchange revalues many attempting to revalue an investment to which we are greatly to the instability of the system. In the absence of security markets, there is no object in frequently

In my Treatise on Money (vol. ii. p. 195) [JMK, vol. v1, p. 174] I pointed out readily marketable or to which no negotiable instrument closely corresponds. rapidly declining in importance, measured as a proportion of the total value of new investment they are This does not apply, of course, to classes of enterprise which are not The categories falling within this exception were formerly extensive. But same effect (since investment depends on a comparison between the marginal ing that a high quotation for existing equities involves an increase in the marefficiency of capital and the rate of interest) as a fall in the rate of interest. ginal efficiency of the corresponding type of capital and therefore has the if it could borrow at a low rate of interest. I should now describe this by saycapital by issuing more shares on favourable terms, this has the same effect as that when a company's shares are quoted very high so that it can raise more

state of affairs will continue indefinitely. We know state of affairs will continue indefinitely, except in sc out quite so simply—lies in assuming that the existing this convention-though it does not, of course, work it can easily be shown that the assumption of arithare equally probable, so that there remains a mean does not mean that we really believe that the existing back on what is, in truth, a convention. The essence of of the facts which will influence the yield of the investthat the existing market valuation, however arrived at, ance leads to absurdities. We are assuming, in effect, metically equal probabilities based on a state of ignoractuarial expectation based on equi-probabilities. For Nor can we rationalise our behaviour by arguing that years very seldom agree with the initial expectation. from extensive experience that this is most unlikely far as we have specific reasons to expect a change. This existing knowledge does not provide a sufficient basis speaking, it cannot be uniquely correct, since our is uniquely correct in relation to our existing knowledge to a man in a state of ignorance errors in either direction The actual results of an investment over a long term of valuation which are in no way relevant to the prospectfact, all sorts of considerations enter into the market for a calculated mathematical expectation. In point of changes in this knowledge; though, philosophically ment, and that it will only change in proportion to In practice we have tacitly agreed, as a rule, to fall

Nevertheless the above conventional method of calculation will be compatible with a considerable measure of continuity and stability in our affairs, so long as we can rely on the maintenance of the convention.

For if there exist organised investment markets and if we can rely on the maintenance of the convention, an investor can legitimately encourage himself with the

LONG-TERM EXPECTATION

community are thus made 'liquid' for the individual. opportunity to revise his judgment and change his and hence over a succession of short periods however 'safe' for the individual investor over short periods, happen. Investments which are 'fixed' for the investment, before there has been time for much to many, if he can fairly rely on there being no breakdown in the convention and on his therefore having an ten years hence. Thus investment becomes reasonably he has not any notion what his investment will be worth ment, and he need not lose his sleep merely because these changes which can affect the value of his investassuming that the convention holds good, it is only likelihood of which he can attempt to form his own change in the news over the near future, as to the idea that the only risk he runs is that of a genuine judgment, and which is unlikely to be very large. For,

It has been, I am sure, on the basis of some such procedure as this that our leading investment markets have been developed. But it is not surprising that a convention, in an absolute view of things so arbitrary, should have its weak points. It is its precariousness which creates no small part of our contemporary problem of securing sufficient investment.

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Some of the factors which accentuate this precariousness may be briefly mentioned.

(1) As a result of the gradual increase in the proportion of the equity in the community's aggregate capital investment which is owned by persons who do not manage and have no special knowledge of the circumstances, either actual or prospective, of the business in question, the element of real knowledge in the valuation of investments by whose who own them or contemplate purchasing them has seriously declined.

(2) Day-to-day fluctuations in the profits of existing

investments, which are obviously of an ephemeral and non-significant character, tend to have an altogether excessive, and even an absurd, influence on the market. It is said, for example, that the shares of American companies which manufacture ice tend to sell at a higher price in summer when their profits are seasonally high than in winter when no one wants ice. The recurrence of a bank-holiday may raise the market valuation of the British railway system by several million pounds.

(3) A conventional valuation which is established as the outcome of the mass psychology of a large number of ignorant individuals is liable to change violently as the result of a sudden fluctuation of opinion due to factors which do not really make much difference to the prospective yield; since there will be no strong roots of conviction to hold it steady. In abnormal times in particular, when the hypothesis of an indefinite continuance of the existing state of affairs is less plausible than usual even though there are no express grounds to anticipate a definite change, the market will be subject to waves of optimistic and pessimistic sentiment, which are unreasoning and yet in a sense legitimate where no solid basis exists for a reasonable calculation.

(4) But there is one feature in particular which deserves our attention. It might have been supposed that competition between expert professionals, possessing judgment and knowledge beyond that of the average private investor, would correct the vagaries of the ignorant individual left to himself. It happens, however, that the energies and skill of the professional investor and speculator are mainly occupied otherwise. For most of these persons are, in fact, largely concerned, not with making superior long-term forecasts of the probable yield of an investment over its whole life, but with foreseeing changes in the conventional basis of valuation a short time ahead of the general public. They are concerned, not with what an investment is

really worth to a man who buys it 'for keeps', but with what the market will value it at, under the influence of mass psychology, three months or a year hence. Moreover, this behaviour is not the outcome of a wrongheaded propensity. It is an inevitable result of an investment market organised along the lines described. For it is not sensible to pay 25 for an investment of which you believe the prospective yield to justify a value of 30, if you also believe that the market will value it at 20 three months hence.

object of skilled investment should be to defeat the dark well express it, to outwit the crowd, and to pass the bad, ment to-day is 'to beat the gun', as the Americans so or depreciating, half-crown to the other fellow. The actual, private object of the most skilled investforces of time and ignorance which envelop our future. called 'liquidity'. Of the maxims of orthodox finance of investment markets organised with a view to soexperience shows that the mass psychology of the investment for the community as a whole. The social part of investment institutions to concentrate their liquidity, the doctrine that it is a positive virtue on the none, surely, is more anti-social than the fetish of forgets that there is no such thing as liquidity of resources upon the holding of 'liquid' securities. It the news or in the atmosphere, of the kind by which market is most influenced. This is the inevitable result himself with the anticipation of impending changes, in Thus the professional investor is forced to concern

This battle of wits to anticipate the basis of conventional valuation a few months hence, rather than the prospective yield of an investment over a long term of years, does not even require gulls amongst the public to feed the maws of the professional;—it can be played by professionals amongst themselves. Nor is it necessary that anyone should keep his simple faith in the conventional basis of valuation having any genuine long-term validity. For it is, so to speak, a game of Snap,

of Old Maid, of Musical Chairs—a pastime in which he is victor who says Snap neither too soon nor too late, who passed the Old Maid to his neighbour before the game is over, who secures a chair for himself when the music stops. These games can be played with zest and enjoyment, though all the players know that it is the Old Maid which is circulating, or that when the music stops some of the players will find themselves unseated.

six prettiest faces from a hundred photographs, the the competitors as a whole; so that each competitor prize being awarded to the competitor whose choice petitions in which the competitors have to pick out the investment may be likened to those newspaper comsome, I believe, who practise the fourth, fifth and expects the average opinion to be. And there are which average opinion genuinely thinks the prettiest. one's judgment, are really the prettiest, nor even those prettiest, but those which he thinks likeliest to catch has to pick, not those faces which he himself finds most nearly corresponds to the average preferences of higher degrees. our intelligences to anticipating what average opinion It is not a case of choosing those which, to the best of looking at the problem from the same point of view. the fancy of the other competitors, all of whom are We have reached the third degree where we devote Or, to change the metaphor slightly, professiona

If the reader interjects that there must surely be large profits to be gained from the other players in the long run by a skilled individual who, unperturbed by the prevailing pastime, continues to purchase investments on the best genuine long-term expectations he can frame, he must be answered, first of all, that there are, indeed, such serious-minded individuals and that it makes a vast difference to an investment market whether or not they predominate in their influence over the game-players. But we must also add that there are

confirm the general belief in his rashness; and if average opinion. If he is successful, that will only eccentric, unconventional and rash in the eyes of in the essence of his behaviour that he should be managed by committees or boards or banks. I For it is not operate on so large a scale, if at all, with borrowed in for most criticism, wherever investment funds are Finally it is the long-term investor, he who most money—a further reason for the higher return from the sional investment is intolerably boring and overpromotes the public interest, who will in practice come pastime to a given stock of intelligence and resources. fluctuations needs greater resources for safety and must gambling instinct; whilst he who has it must pay to exacting to anyone who is entirely exempt from the average man at a very high rate. The game of profesinvestor who proposes to ignore near-term market money quickly, and remoter gains are discounted by the desires quick results, there is a peculiar zest in making Moreover, life is not long enough; -human nature our ignorance of the future than to beat the gun. coincides with that which is most profitable. It needs the investment policy which is socially advantageous takes. There is no clear evidence from experience that equal intelligence, he may make more disastrous misand run greater risks than he who tries to guess better attempts it must surely lead much more laborious days this propensity the appropriate toll. Furthermore, an more intelligence to defeat the forces of time and than the crowd how the crowd will behave; and, given difficult to-day as to be scarcely practicable. He who such individuals in modern investment markets. Investment based on genuine long-term expectation is so several factors which jeopardise the predominance of

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The practice, usually considered prudent, by which an investment trust or an insurance office frequently calculates not only the income from its investment portfolio but also its capital valuation in the market, may also tend to direct too much attention to short-term fluctuations in the latter.

in the short run he is unsuccessful, which is very likely, he will not receive much mercy. Worldly wisdom teaches that it is better for reputation to fail conventionally than to succeed unconventionally.

confidence of the speculator or speculative investor of confidence, namely, the confidence of the lending interest. This is, of course, not the case. Thus we unlimited command over money at the market rate of that, if he himself is satisfied with the prospects, he has may have been due to the weakening either of speculatcollapse in the price of equities, which has had disthem, sometimes described as the state of credit. A institutions towards those who seek to borrow from must also take account of the other facet of the state himself and may have seemed to be tacitly assuming astrous reactions on the marginal efficiency of capital, collapse, its strengthening, though a necessary condition recovery requires the revival of both. For whilst the the weakening of either is enough to cause a collapse, ive confidence or of the state of credit. But whereas of recovery, is not a sufficient condition. weakening of credit is sufficient to bring about a (5) So far we have had chiefly in mind the state of

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These considerations should not lie beyond the purview of the economist. But they must be relegated to their right perspective. If I may be allowed to appropriate the term speculation for the activity of forecasting the psychology of the market, and the term enterprise for the activity of forecasting the prospective yield of assets over their whole life, it is by no means always the case that speculation predominates over enterprise. As the organisation of investment markets improves, the risk of the predominance of speculation does, however, increase. In one of the greatest investment markets in the world, namely, New York, the

LONG-TERM EXPECTATION

a different object. outstanding triumphs of laissez-faire capitalism-which in terms of future yield, cannot be claimed as one of the casino, the job is likely to be ill-done. The measure a country becomes a by-product of the activities of a brains of Wall Street have been in fact directed towards is not surprising, if I am right in thinking that the best of success attained by Wall Street, regarded as an serious when enterprise becomes the bubble on a whirla steady stream of enterprise. But the position is speculator. Speculators may do no harm as bubbles on direct new investment into the most profitable channels institution of which the proper social purpose is to pool of speculation. When the capital development of capital appreciation. This is only another way of saying readily purchase an investment except in the hope of basis of valuation, i.e. that he is, in the above sense, a yield, as to a favourable change in the conventional that, when he purchases an investment, the American national weakness finds its nemesis in the stock market opinion believes average opinion to be; and this be unduly interested in discovering what average is attaching his hopes, not so much to its prospective Englishmen still do, 'for income'; and he will not It is rare, one is told, for an American to invest, as many Even outside the field of finance, Americans are apt to influence of speculation (in the above sense) is enormous

These tendencies are a scarcely avoidable outcome of our having successfully organised 'liquid' investment markets. It is usually agreed that casinos should, in the public interest, be inaccessible and expensive. And perhaps the same is true of stock exchanges. That the sins of the London Stock Exchange are less than those of Wall Street may be due, not so much to differences in national character, as to the fact that to the average Englishman Throgmorton Street is, compared with Wall Street to the average American, inaccessible and very expensive. The jobber's 'turn', the high

to the Exchequer, which attend dealings on the London Stock Exchange, sufficiently diminish the liquidity of the market (although the practice of fortnightly accounts operates the other way) to rule out a large proportion of the transaction characteristic of Wall Street. The introduction of a substantial government transfer tax on all transactions might prove the most serviceable reform available, with a view to mitigating the predominance of speculation over enterprise in the United

to direct his mind to the long-term prospects and to contemporary evils. For this would force the investor or other grave cause, might be a useful remedy for our indissoluble, like marriage, except by reason of death make the purchase of an investment permanent and sometimes moved me towards the conclusion that to brings us up against a dilemma, and shows us how the those only. But a little consideration of this expedient that his commitment is 'liquid' (though this cannot be liquidity of investment markets often facilitates, though are available to the individual. This is the dilemma. so long as alternative ways in which to hold his savings true for all investors collectively) calms his nerves and For the fact that each individual investor flatters himself sufficiently attractive (especially to the man who does purchasing actual capital assets cannot be rendered wealth in hoarding or lending money, the alternative of So long as it is open to the individual to employ his illiquid, this might seriously impede new investment, individual purchases of investments were rendered makes him much more willing to run a risk. If it sometimes impedes, the course of new investment The spectacle of modern investment markets has

not manage the capital assets and knows very little about them), except by organising markets wherein these assets can be easily realised for money.

The only radical cure for the crises of confidence which afflict the economic life of the modern world would be to allow the individual no choice between consuming his income and ordering the production of the specific capital-asset which, even though it be on precarious evidence, impresses him as the most promising investment available to him. It might be that, at times when he was more than usually assailed by doubts concerning the future, he would turn in his perplexity towards more consumption and less new investment. But that would avoid the disastrous, cumulative and far-reaching repercussions of its being open to him, when thus assailed by doubts, to spend his income neither on the one nor on the other.

Those who have emphasised the social dangers of the hoarding of money have, of course, had something similar to the above in mind. But they have overlooked the possibility that the phenomenon can occur without any change, or at least any commensurate change, in the hoarding of money

VI

Even apart from the instability due to speculation, there is the instability due to the characteristic of human nature that a large proportion of our positive activities depend on spontaneous optimism rather than on a mathematical expectation, whether moral or hedonistic or economic. Most, probably, of our decisions to do something positive, the full consequences of which will be drawn out over many days to come, can only be taken as a result of animal spirits—of a spontaneous urge to action rather than inaction, and not as the outcome of a weighted average of quantitative benefits multiplied by quantitative probabilities. Enterprise

It is said that, when Wall Street is active, at least a half of the purchases or sales of investments are entered upon with an intention on the part of the speculator to reverse them the same day. This is often true of the commodity exchanges also.

only pretends to itself to be mainly actuated by the statements in its own prospectus, however candid and sincere. Only a little more than an expedition to the South Pole, is it based on an exact calculation of benefits to come. Thus if the animal spirits are dimmed and the spontaneous optimism falters, leaving us to depend on nothing but a mathematical expectation, enterprise will fade and die;—though fears of loss may have a basis no more reasonable than hopes of profit had before.

It is safe to say that enterprise which depends on hopes stretching into the future benefits the community as a whole. But individual initiative will only be adequate when reasonable calculation is supplemented and supported by animal spirits, so that the thought of ultimate loss which often overtakes pioneers, as experience undoubtedly tells us and them, is put aside as a healthy man puts aside the expectation of death.

This means, unfortunately, not only that slumps and depressions are exaggerated in degree, but that economic prosperity is excessively dependent on a political and social atmosphere which is congenial to the average business man. If the fear of a Labour Government or a New Deal depresses enterprise, this need not be the result either of a reasonable calculation or of a plot with political intent;—it is the mere consequence of upsetting the delicate balance of spontaneous optimism. In estimating the prospects of investment, we must have regard, therefore, to the nerves and hysteria and even the digestions and reactions to the weather of those upon whose spontaneous activity it largely depends.

We should not conclude from this that everything depends on waves of irrational psychology. On the contrary, the state of long-term expectation is often steady, and, even when it is not, the other factors exert their compensating effects. We are merely reminding ourselves that human decisions affecting the future, whether personal or political or economic, cannot

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depend on strict mathematical expectation, since the basis for making such calculations does not exist; and that it is our innate urge to activity which makes the wheels go round, our rational selves choosing between the alternatives as best we are able, calculating where we can, but often falling back for our motive on whim or sentiment or chance.

VIII

rate of interest,—though the rate which the public expectation of the yield is at least equal to the current without seeking to be satisfied that the mathematica mercial yield may prove to be within a wide range, and such rates as will provide a certain stipulated margin. monopoly privileges coupled with the right to charge of the prospective yield is practically guaranteed by case of another important class of long-term investadvantages from the investment, whatever its comgeneral presumption of there being prospective social frankly influenced in making the investment by a upon by, or at the risk of, public authorities, which are ments, namely public utilities, a substantial proportion outweighed in the mind of the occupier by the adthem, by means of long-term contracts, the risk being Finally there is a growing class of investments entered vantages of continuity and security of tenure. In the the investor to the occupier, or at least shared between of obsolescence with the passage of time, there are of compound interest combined with the likelihood our ignorance of the future. Owing to the operation important class of very long-term investments, namely comparatively near future. In the case of the most many individual investments of which the prospective buildings, the risk can be frequently transferred from yield is legitimately dominated by the returns of the which somewhat mitigate in practice the effects of There are, moreover, certain important factors

authority has to pay may still play a decisive part in determining the scale of investment operations which it can afford.

Thus after giving full weight to the importance of the influence of short-period changes in the state of long-term expectation as distinct from changes in the rate of interest, we are still entitled to return to the latter as exercising, at any rate, in normal circumstances, a great, though not a decisive, influence on the rate of investment. Only experience, however, can show how far management of the rate of interest is capable of continuously stimulating the appropriate volume of investment.

For my own part I am now somewhat sceptical of the success of a merely monetary policy directed towards influencing the rate of interest. I expect to see the State, which is in a position to calculate the marginal efficiency of capital-goods on long views and on the basis of the general social advantage, taking an ever greater responsibility for directly organising investment; since it seems likely that the fluctuations in the market estimation of the marginal efficiency of different types of capital, calculated on the principles I have described above, will be too great to be offset by any practicable changes in the rate of interest.

Chapter 13

THE GENERAL THEORY OF THE RATE OF INTEREST

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We have shown in chapter 11 that, whilst there are forces causing the rate of investment to rise or fall so as to keep the marginal efficiency of capital equal to the rate of interest, yet the marginal efficiency of capital is, in itself, a different thing from the ruling rate of interest. The schedule of the marginal efficiency of capital may be said to govern the terms on which loanable funds are demanded for the purpose of new investment; whilst the rate of interest governs the terms on which funds are being currently supplied. To complete our theory, therefore, we need to know what determines the rate of interest.

In chapter 14 and its Appendix we shall consider the answers to this question which have been given hitherto. Broadly speaking, we shall find that they make the rate of interest to depend on the interaction of the schedule of the marginal efficiency of capital with the psychological propensity to save. But the notion that the rate of interest is the balancing factor which brings the demand for saving in the shape of new investment forthcoming at a given rate of interest into equality with the supply of saving which results at that rate of interest from the community's psychological propensity to save, breaks down as soon as we perceive that it is impossible to deduce the rate of interest merely from a knowledge of these two factors.

cultural products—still stood at a very high level. The 'New Deal' partly consisted in a strenuous attempt to reduce these stocks—by curtailment of current output and in all sorts of ways. The reduction of stocks to a normal level was a necessary process—a phase which had to be endured. But so long as it lasted, namely, about two years, it constituted a substantial offset to the loan expenditure which was being incurred in other directions. Only when it had been completed was the way prepared for substantial recovery.

excellently complete statistics now available in the itself quite clearly against the background effect on the current rate of investment to display and dropping back again has proved sufficient in its allow for the absorption of the excess inventories; and the difference of pace between running a little ahead to prevail some months later, are apt to make minor provide for a scale of consumption which is expected to a level below that of current consumption so as to a little ahead of the facts. When they discover cycle. Manufacturers, setting industry in motion to oscillations within the main movement of the trade is becoming usual to call them-in causing the minor of finished and unfinished goods-'inventories' as it United States their mistake they have to contract for a short time miscalculations, generally in the direction of running examples of the part played by fluctuations in the stocks Recent American experience has also afforded good

Chapter 23

NOTES ON MERCANTILISM, THE USURY LAWS, STAMPED MONEY AND THEORIES OF UNDER-CONSUMPTION

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and grave danger in an unfavourable balance, particularly advantage to a country in a favourable balance of trade. and practical men did not doubt that there is a peculiar preted with reference to the context. broader and a narrower signification, must be interthough these terms, since each of them has both a opinion as mercantilism and the newer as free trade, in accordance with tradition, to designate the older international division of labour. It will be convenient, are not only futile, but greatly impoverish those who trade is self-adjusting and attempts to interfere with it cept on a very short view, since the mechanism of foreign concerning such matters is absolutely groundless exalmost all economic theorists have held that anxiety have remained faithful to the ancient doctrine; whereas even in Great Britain, the home of the opposite view, divergence of opinion. The majority of statesmen and the past one hundred years there has been a remarkable if it results in an efflux of the precious metals. But for For some two hundred years both economic theorists practise them because they forfeit the advantages of the practical men in most countries, and nearly half of them

Generally speaking, modern economists have maintained not merely that there is, as a rule, a balance of

crudest form.'3 As for earlier mercantilist theory, no involves the Protectionist fallacy in its grossest and simple answer. But the claim to cure Unemployment sible but improbable advantages, to which there is no arguments for Protection, based upon its securing posdo, it is to cure Unemployment... There are some wrote: 'If there is one thing that Protection can not and entertained on this matter no reserves at all, I did not at that time doubt what he had been taught as 1923, as a faithful pupil of the classical school who quote, as an example, what I wrote myself. So lately domestic employment. It will be fairest, perhaps, to economists to the claim that protection might increase not remember that any concession was ever allowed by versy of the first quarter of the present century I do of the mercantilist case. During the fiscal controof trade, are not concerned with the real substance of infant industries or to the improvement of the terms versies, relating, for example, to the encouragement even mention those elements of truth in their contenhave been ready to make in contemporary controthe theoretical concessions which free-trade economists tions which I shall examine below.2 In the same way, regard for their central theory as such and does not mercantilism are not altogether unsympathetic, had no Marshall, for example, although his references to

Vide his Industry and Trade, Appendix D; Money, Credit and Commerce, p. 130; and Principles of Economics, Appendix I.

intelligible account was available; and we were brought domination of the classical school So absolutely overwhelming and complete has been the up to believe that it was little better than nonsense.

national advantages and are unlikely to benefit the understood that the advantages claimed are avowedly actual arguments of the mercantilists. It should be tilist doctrine. We will then compare this with the world as a whole. to me to be the element of scientific truth in mercan-Let me first state in my own terms what now seems

of interest and the balance of foreign trade. government to be preoccupied, are the domestic rate economic objects, with which it is reasonable for the the long run, by the domestic rate of interest; whilst opportunities for home investment will be governed, in investment under the aegis of public authority, the the volume of foreign investment is necessarily determent is determined by the profit motive alone, the conditions in which the quantity of aggregate invest-Thus, in a society where there is no question of direct mined by the size of the favourable balance of trade. between them, make up aggregate investment. In latter the accumulation of the precious metals), which, investment or in foreign investment (including in the inducements. They may be found either in home we have already explained, on the sufficiency of such a progressive state essentially depends, for the reasons termine the propensity to consume, the well-being of vironment and the national characteristics which deto new investment. Given the social and political enaffairs is liable to be interrupted, in conditions of rapidly, the further progress of this happy state of laissez-faire, by the insufficiency of the inducements When a country is growing in wealth somewhat

nation can be effected only by an increase of the stores of the precious metals quence of a deliberate assumption that the increase in the net wealth of a understanding of the functions of money, rather than as wrong in conse-On the whole they are to be regarded as confused through want of a clear of his Principles, p. 51: 'Much study has been given both in England and His view of them is well summed up in a footnote to the first edition Germany to medieval opinions as to the relation of money to national wealth.

The Nation and the Athenaeum, November 24, 1923 [JMK, vol. xv111].

Now, if the wage-unit is somewhat stable and not liable to spontaneous changes of significant magnitude (a condition which is almost always satisfied), if the state of liquidity-preference is somewhat stable, taken as an average of its short-period fluctuations, and if banking conventions are also stable, the rate of interest will tend to be governed by the quantity of the precious metals, measured in terms of the wage-unit, available to satisfy the community's desire for liquidity. At the same time, in an age in which substantial foreign loans and the outright ownership of wealth located abroad are scarcely practicable, increases and decreases in the quantity of the precious metals will largely depend on whether the balance of trade is favourable or unfavour-

Thus, as it happens, a preoccupation on the part of the authorities with a favourable balance of trade served both purposes; and was, furthermore, the only available means of promoting them. At a time when the authorities had no direct control over the domestic rate of interest or the other inducements to home investment, measures to increase the favourable balance of trade were the only direct means at their disposal for increasing foreign investment; and, at the same time, the effect of a favourable balance of trade on the influx of the precious metals was their only indirect means of reducing the domestic rate of interest and so increasing the inducement to home investment.

There are, however, two limitations on the success of this policy which must not be overlooked. If the domestic rate of interest falls so low that the volume of investment is sufficiently stimulated to raise employment to a level which breaks through some of the critical points at which the wage-unit rises, the increase in the domestic level of costs will begin to react unfavourably on the balance of foreign trade, so that the effort to increase the latter will have overreached and defeated itself. Again, if the domestic rate of interest

falls so low relatively to rates of interest elsewhere as to stimulate a volume of foreign lending which is disproportionate to the favourable balance, there may ensue an efflux of the precious metals sufficient to reverse the advantages previously obtained. The risk of one or other of these limitations becoming operative is increased in the case of a country which is large and internationally important by the fact that, in conditions where the current output of the precious metals from the mines is on a relatively small scale, an influx of money into one country means an efflux from another; so that the adverse effects of rising costs and falling rates of interest at home may be accentuated (if the mercantilist policy is pushed too far) by falling costs and rising rates of interest abroad.

the growth of real wealth. rate of interest to a level which was compatible with rate of interest which was required to ensure full emquently stood in the way of the decline in the domestic a country in which the excessive facilities for foreign years of the twentieth century provides an example of of the precious metals. Great Britain in the pre-war example of a country whose foreign trade was destroyed the fifteenth and in the sixteenth centuries provides an precious metals has been insufficient to bring down the passion that even an enormous and chronic influx of the by a preference for liquidity amounting to so strong a has provided an example of a country impoverished ployment at home. The history of India at all times lending and the purchase of properties abroad freby the effect on the wage-unit of an excessive abundance The economic history of Spain in the latter part of

Nevertheless, if we contemplate a society with a somewhat stable wage-unit, with national characteristics which determine the propensity to consume and the preference for liquidity, and with a monetary system which rigidly links the quantity of money to the stock of the precious metals, it will be essential for the main-

tenance of prosperity that the authorities should pay close attention to the state of the balance of trade. For a favourable balance, provided it is not too large, will prove extremely stimulating; whilst an unfavourable balance may soon produce a state of persistent depression.

It does not follow from this that the maximum degree of restriction of imports will promote the maximum favourable balance of trade. The earlier mercantilists laid great emphasis on this and were often to be found opposing trade restrictions because on a long view they were liable to operate adversely to a favourable balance. It is, indeed, arguable that in the special circumstances of mid-nineteenth-century Great Britain an almost complete freedom of trade was the policy most conducive to the development of a favourable balance. Contemporary experience of trade restrictions in post-war Europe offers manifold examples of ill-conceived impediments on freedom which, designed to improve the favourable balance, had in fact a contrary tendency.

competition for a favourable balance which injures al immoderate policy may lead to a senseless international metals than is fair and reasonable, but also that an itself no larger a share of the stock of the precious moderation is necessary, so that a country secures for tilists were fully alive) means not only that great some other country (a point to which the mercanbalance is liable to involve an equal disadvantage to advantages of the international division of labour are tage which our own country gains from a favourable greatly overstressed them. The fact that the advanreal and substantial, even though the classical school unless they can be justified on special grounds. The tions of a general character against trade restrictions our argument leads up. There are strong presumpa premature conclusion as to the practical policy to which For this and other reasons the reader must not reach

alike. And finally, a policy of trade restrictions is a treacherous instrument even for the attainment of its ostensible object, since private interest, administrative incompetence and the intrinsic difficulty of the task may divert it into producing results directly opposite to those intended.

Thus, the weight of my criticism is directed against the inadequacy of the *theoretical* foundations of the *laissez-faire* doctrine upon which I was brought up and which for many years I taught;—against the notion that the rate of interest and the volume of investment are self-adjusting at the optimum level, so that preoccupation with the balance of trade is a waste of time. For we, the faculty of economists, prove to have been guilty of presumptuous error in treating as a puerile obsession what for centuries has been a prime object of practical statecraft.

employment at home. nique for the maintenance of equilibrium which can almost hope that in Great Britain the technique of bankers in London have learnt much, and one can tecting the domestic rate of interest, sacrificed it to of controlling it was evolved which, instead of proimpossible to neglect the balance of payments, a means balance in conditions in which it is likely to cause unbank rate will never be used again to protect the foreign the operation of blind forces. Recently, practical ment was wholly ruled out. Since, in practice, it is domestic rate of interest consistent with full employ-For this meant that the objective of maintaining a rate coupled with a rigid parity of the foreign exchanges. possibly be imagined, namely, the technique of bank London gradually devised the most dangerous tech-Under the influence of this faulty theory the City of

Regarded as the theory of the individual firm and

The remedy of an elastic wage-unit, so that a depression is met by a reduction of wages, is liable, for the same reason, to be a means of benefiting

ourselves at the expense of our neighbours.

drain, a rise in the wage-unit, or any other cause. to restore the stock of money by devaluation, if it had the wage-unit; and in their readiness in the last resort of interest by means of usury laws (to which we become plainly deficient through an unavoidable foreign domestic stock of money and by discouraging rises in will return later in this chapter), by maintaining the intense preoccupation with keeping down the rate centuries may have attained to fragments of practical economic thinking in the sixteenth and seventeenth forgot and then obliterated. There was wisdom in their wisdom which the unrealistic abstractions of Ricardo first entire resources, the methods of the early pioneers of securing the optimum employment of the system's concerned with the economic system as a whole and with neglect of what was valuable in their predecessors. supposed to question this in calling attention to their a part of one's apparatus of thought. I must not be Nevertheless, as a contribution to statecraft, which is to think clearly on the subject without this theory as thinking which cannot be impugned. It is impossible classical theory has made a contribution to economic employment of a given quantity of resources, the of the distribution of the product resulting from the

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The early pioneers of economic thinking may have hit upon their maxims of practical wisdom without having had much cognisance of the underlying theoretical grounds. Let us, therefore, examine briefly the reasons they gave as well as what they recommended. This is

Experience since the age of Solon at least, and probably, if we had the statistics, for many centuries before that, indicates what a knowledge of human nature would lead us to expect, namely, that there is a steady tendency for the wage-unit to rise over long periods of time and that it can be reduced only amidst the decay and dissolution of economic society. Thus, apart altogether from progress and increasing population, a gradually increasing stock of money has proved imperative.

made easy by reference to Professor Heckscher's great work on *Mercantilism*, in which the essential characteristics of economic thought over a period of two centuries are made available for the first time to the general economic reader. The quotations which follow are mainly taken from his pages.

(1) Mercantilists' thought never supposed that there was a self-adjusting tendency by which the rate of interest would be established at the appropriate level. On the contrary they were emphatic that an unduly high rate of interest was the main obstacle to the growth of wealth; and they were even aware that the rate of interest depended on liquidity-preference and the quantity of money. They were concerned both with diminishing liquidity-preference and with increasing the quantity of money, and several of them made it clear that their preoccupation with increasing the quantity of money was due to their desire to diminish the rate of interest. Professor Heckscher sums up this aspect of their theory as follows:

The position of the more perspicacious mercantilists was in this respect, as in many others, perfectly clear within certain limits. For them, money was—to use the terminology of to-day—a factor of production, on the same footing as land, sometimes regarded as 'artificial' wealth as distinct from the 'natural' wealth; interest on capital was the payment for the renting of money similar to rent for land. In so far as mercantilists sought to discover objective reasons for the height of the rate of interest—and they did so more and more during this period—they found such reasons in the total quantity of money. From the abundant material available, only the most typical examples will be selected, so as to demonstrate first and foremost how lasting this notion was, how deep-rooted and independent of practical considerations. Both of the protagonists in the struggle over monetary

They are the more suitable for my purpose because Prof. Heckscher is himself an adherent, on the whole, of the classical theory and much less sympathetic to the mercantilist theories than I am. Thus there is no risk that his choice of quotations has been biassed in any way by a desire to illustrate their wisdom.

country with too much 'Coin' (Quantulumcunque concerning and advised lending at interest as an appropriate remedy for a increase in the amount of money (Political Arithmetick, 1676), Money, 1682). agreement with the rest when he explained the 'natural' fall in the rate of interest from 10 per cent to 6 per cent by the who was entirely unaffected by the clash of interests, was in money we have in use in the nation? Petty, the other writer, certainly supply the defect of at least one-half of all the ready debt, if these were used as currency, for this, he said, 'will dreaded disadvantage in the easier transference of bills of demanded, would result in drawing 'the money' of the skilful advocate, discussed (1668) the question of how far the legal maximum rate of interest, which he emphatically and Maintenance of Free Trade, 1622). His truculent and Dutch away from England. He found a remedy for this omnipotent leader of the East India Company and its most Of the leading writers of half a century later, Child, the (Free Trade or the Meanes to make Trade Florish, same year). that 'The remedy for Usury may be plenty of money' rather unscrupulous adversary, Edward Misselden, replied of money decreaseth usury in price or rate' (Lex Mercatoria stated, giving detailed reason for his assertion, that 'Plenty were in entire agreement on this point. Gerard Malynes policy and the East India trade in the early 1620's in England

This reasoning, naturally enough, was by no means confined to England. Several years later (1701 and 1706), for example, French merchants and statesmen complained of the prevailing scarcity of coin (disette des espèces) as the cause of the high interest rates, and they were anxious to lower the rate of usury by increasing the circulation of money.

The great Locke was, perhaps, the first to express in abstract terms the relationship between the rate of interest and the quantity of money in his controversy with Petty.² He was opposing Petty's proposal of a maximum rate of interest on the ground that it was as impracticable as to fix a maximum rent for land, since the natural Value of Money, as it is apt to yield such

Heckscher, Mercantilism, vol. ii. pp. 200, 201, very slightly abridged.

Some Considerations of the Consequences of the Lowering of Interest and

Raising the Value of Money, 1692, but written some years previously.

altogether the possibility of fluctuations in liquiditypreference. He was, however, eager to explain that a tion between these two proportions, and he overlooked classical world3—he was confused concerning the relain the mercantilist world and with one foot in the of goods in the market. But-standing with one foot that the value of money in exchange depended on the proportion of the quantity of money to the total volume total value of trade. In the second place he held money (allowing for the velocity of circulation) to the theories. In the first place he held that the rate of be'. Thus Locke was the parent of twin quantity 'and in this it has the Nature of a Commodity', its interest depended on the proportion of the quantity of Scarcity of those things and not on what Interest shall Scarcity of Money in proportion to the Plenty or value in exchange 'depending only on the Plenty or Rent, of the other, Use2, and (2) its value in exchange the Nature of Land, the Income of one being called which is given by the rate of interest 'and in this it has plains that money has two values: (1) its value in use the general Vent of all the commodities)'. Locke exin proportion to the whole Trade of the Kingdom (i.e. quantity of the then passing Money of the Kingdom, an yearly Income by Interest, depends on the whole

He adds: 'not barely on the quantity of money but the quickness of its circulation'.

^{2 &#}x27;Use' being, of course, old-fashioned English for 'interest'.

3 Huma a little later had a fact and a later of

Hume a little later had a foot and a half in the classical world. For Hume began the practice amongst economists of stressing the importance of the equilibrium position as compared with the ever-shifting transition towards it, though he was still enough of a mercantilist not to overlook the fact that it is in the transition that we actually have our being: 'It is only in this interval or intermediate situation, between the acquisition of money and a rise of prices, that the increasing quantity of gold and silver is favourable to industry. It is of no manner of consequence, with regard to the domestic happiness of a state, whether money be in a greater or less quantity. The good policy of the magistrate consists only in keeping it, if possible, still increasing; because by that means he keeps alive a spirit of industry in the nation, and increases the state of labour in which consists all real power and riches. A nation, whose money decreases, is actually, at that time, weaker and more miserable than another nation, which possesses no more money but is on the increasing trend.' (Essay On Money, 1752.)

reduction in the rate of interest has no direct effect on the price-level and affects prices 'only as the Change of Interest in Trade conduces to the bringing in or carrying out Money or Commodity, and so in time varying their Proportion here in England from what it was before', i.e. if the reduction in the rate of interest leads to the export of cash or an increase in output. But he never, I think, proceeds to a genuine synthesis.¹

How easily the mercantilist mind distinguished between the rate of interest and the marginal efficiency of capital is illustrated by a passage (printed in 1621) which Locke quotes from A Letter to a Friend concerning Usury: 'High Interest decays Trade. The advantage from Interest is greater than the Profit from Trade, which makes the rich Merchants give over, and put out their Stock to Interest, and the lesser Merchants Break.' Fortrey (England's Interest and Improvement, 1663) affords another example of the stress laid on a low rate of interest as a means of increasing wealth.

The mercantilists did not overlook the point that, if an excessive liquidity-preference were to withdraw the influx of precious metals into hoards, the advantage to the rate of interest would be lost. In some cases (e.g. Mun) the object of enhancing the power of the State led them, nevertheless, to advocate the accumulation of state treasure. But others frankly opposed this policy:

Schrötter, for instance, employed the usual mercantilist arguments in drawing a lurid picture of how the circulation in the country would be robbed of all its money through a greatly increasing state treasury...he, too, drew a perfectly logical parallel between the accumulation of treasure by the

It illustrates the completeness with which the mercantilist view, that interest means interest on money (the view which is, as it now seems to me, indubitably correct), has dropt out, that Prof. Heckscher, as a good classical economist, sums up his account of Locke's theory with the comment—'Locke's argument would be irrefutable...if interest really were synonymous with the price for the loan of money; as this is not so, it is entirely irrelevant' (op. cit. vol. ii. p. 204).

monasteries and the export surplus of precious metals, which, to him, was indeed the worst possible thing which he could think of. Davenant explained the extreme poverty of many Eastern nations—who were believed to have more gold and silver than any other countries in the world—by the fact that treasure 'is suffered to stagnate in the Princes' Coffers'... If hoarding by the state was considered, at best, a doubtful boon, and often a great danger, it goes without saying that private hoarding was to be shunned like the pest. It was one of the tendencies against which innumerable mercantilist writers thundered, and I do not think it would be possible to find a single dissentient voice.

(2) The mercantilists were aware of the fallacy of cheapness and the danger that excessive competition may turn the terms of trade against a country. Thus Malynes wrote in his Lex Mercatoria (1622): 'Strive not to undersell others to the hurt of the Commonwealth, under colour to increase trade: for trade doth not increase when commodities are good cheap, because the cheapness proceedeth of the small request and scarcity of money, which maketh things cheap: so that the contrary augmenteth trade when there is plenty of money, and commodities become dearer being in request? Professor Heckscher sums up as follows this strand in mercantilist thought:

In the course of a century and a half this standpoint was formulated again and again in this way, that a country with relatively less money than other countries must 'sell cheap and buy dear'...

Even in the original edition of the Discourse of the Common Weal, that is in the middle of the 16th century, this attitude was already manifested. Hales said, in fact, 'And yet if strangers should be content to take but our wares for theirs, what should let them to advance the price of other things (meaning: among others, such as we buy from them), though ours were good cheap unto them? And then shall we be still losers, and they at the winning hand with us, while they sell dear and yet buy ours good cheap, and consequently enrich

Heckscher, op. cit. vol. ii. pp. 210, 211.

Heckscher, op. cit. vol. ii. p. 228.

NOTES ON MERCANTILISM, ETC.

(3) The mercantilists were the originals of 'the fear of goods' and the scarcity of money as causes of unemployment which the classicals were to denounce two centuries later as an absurdity:

One of the earliest instances of the application of the unemployment argument as a reason for the prohibition of imports is to be found in Florence in the year 1426....The English legislation on the matter goes back to at least 1455.... An almost contemporary French decree of 1466, forming the basis of the silk industry of Lyons, later to become so famous, was less interesting in so far as it was not actually directed against foreign goods. But it, too, mentioned the possibility of giving work to tens of thousands of unemployed men and women. It is seen how very much this argument was in the air at the time...

The first great discussion of this matter, as of nearly all social and economic problems, occurred in England in the middle of the 16th century or rather earlier, during the reigns of Henry VIII and Edward VI. In this connection we cannot but mention a series of writings, written apparently at the latest in the 1530's, two of which at any rate are believed

disappearance on account of corresponding activities within to an export (export surplus) of precious metals, or to their all persons who were supposed to have contributed either was felt so bitterly. Numerous attacks were directed against the country.2 into where the money could have got to, the want of which and that peasants were forced to repudiate their contracts, that looms were standing idle for want of money in the country, members of parliament, Sir Edwin Sandys. He stated that were described very clearly by one of the most influential money, which occurred in 1621, when a serious depression the English House of Commons concerning the scarcity of The best instance to my knowledge of a typically mercan-tilist discussion of a state of affairs of this kind is the debates in for want of money? The situation led to detailed enquiries 'not (thanks be to God) for want of fruits of the earth, but the farmer and the artificer had to suffer almost everywhere, had set in, particularly in the cloth export. The conditions

Mercantilists were conscious that their policy, as Professor Heckscher puts it, 'killed two birds with one stone'. 'On the one hand the country was rid of an unwelcome surplus of goods, which was believed to result in unemployment, while on the other the total stock of money in the country was increased', 3 with the resulting advantages of a fall in the rate of interest.

It is impossible to study the notions to which the mercantilists were led by their actual experiences, without perceiving that there has been a chronic tendency throughout human history for the propensity to save to be stronger than the inducement to invest. The

Heckscher, op. cit. vol. ii. p. 235.

Heckscher of cit vol. ii. p. 122.

Heckscher, op. cit. vol. ii. p. 223.
Heckscher, op. cit. vol. ii. p. 178.

weakness of the inducement to invest has been at all times the key to the economic problem. To-day the explanation of the weakness of this inducement may chiefly lie in the extent of existing accumulations; whereas, formerly, risks and hazards of all kinds may have played a larger part. But the result is the same. The desire of the individual to augment his personal wealth by abstaining from consumption has usually been stronger than the inducement to the entrepreneur to augment the national wealth by employing labour on the construction of durable assets.

(4) The mercantilists were under no illusions as to the nationalistic character of their policies and their tendency to promote war. It was *national* advantage and *relative* strength at which they were admittedly aiming.¹

We may criticise them for the apparent indifference with which they accepted this inevitable consequence of an international monetary system. But intellectually their realism is much preferable to the confused thinking of contemporary advocates of an international fixed gold standard and laissez-faire in international lending, who believe that it is precisely these policies which will best promote peace.

For in an economy subject to money contracts and customs more or less fixed over an appreciable period of time, where the quantity of the domestic circulation and the domestic rate of interest are primarily determined by the balance of payments, as they were in Great Britain before the war, there is no orthodox means open to the authorities for countering unemployment at home except by struggling for an export surplus and

1 'Within the stage, mercantilism pursued thoroughgoing dynamic ends. But the important thing is that this was bound up with a static conception of the total economic resources in the world; for this it was that created that fundamental disharmony which sustained the endless commercial wars.... This was the tragedy of mercantilism. Both the Middle Ages with their universal static ideal and laistez-faire with its universal dynamic ideal avoided this consequence' (Heckscher, op. cit. vol. ii. pp. 25, 26).

nomous rate of interest, these economists have taught which had previously rendered impossible an autoescape, some countries have thrown off the obligations economists, whose common sense has been insufficient pensity to consume, it has tended to become increasingly internecine. The part played by orthodox growth of wealth and the diminishing marginal prostruggle might be somewhat abated. But with the gold and silver were comparatively abundant, the metals. When by happy accident the new supplies of of markets and a competitive appetite for the precious at variance with its neighbours' as the international gold vised of such efficacy for setting each country's advantage neighbours. Never in history was there a method defirst step to a general recovery. that a restoration of the former shackles is a necessary to check their faulty logic, has been disastrous to the prosperity directly dependent on a competitive pursuit an import of the monetary metal at the expense of their latest act. For when in their blind struggle for an (or, formerly, silver) standard. For it made domestic

In truth the opposite holds good. It is the policy of an autonomous rate of interest, unimpeded by international preoccupations, and of a national investment programme directed to an optimum level of domestic employment which is twice blessed in the sense that it helps ourselves and our neighbours at the same time. And it is the simultaneous pursuit of these policies by all countries together which is capable of restoring economic health and strength internationally, whether we measure it by the level of domestic employment or by the volume of international trade. ¹

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The consistent appreciation of this truth by the International Labour Office, first under Albert Thomas and subsequently under Mr H. B. Butler, has stood out conspicuously amongst the pronouncements of the numerous post-war international bodies.

The mercantilists perceived the existence of the problem without being able to push their analysis to the point of solving it. But the classical school ignored the problem, as a consequence of introducing into their premisses conditions which involved its non-existence; with the result of creating a cleavage between the conclusions of economic theory and those of common sense. The extraordinary achievement of the classical theory was to overcome the beliefs of the 'natural man' and, at the same time, to be wrong. As Professor Heckscher expresses it:

If, then, the underlying attitude towards money and the material from which money was created did not alter in the period between the Crusades and the 18th century, it follows that we are dealing with deep-rooted notions. Perhaps the same notions have persisted even beyond the 500 years included in that period, even though not nearly to the same degree as the 'fear of goods'...With the exception of the period of laissez-faire, no age has been free from these ideas. It was only the unique intellectual tenacity of laissez-faire that for a time overcame the beliefs of the 'natural man' on this point.'

It required the unqualified faith of doctrinaire laissez-faire to wipe out the 'fear of goods'...[which] is the most natural attitude of the 'natural man' in a money economy. Free Trade denied the existence of factors which appeared to be obvious, and was doomed to be discredited in the eyes of the man in the street as soon as laissez-faire could no longer hold the minds of men enchained in its ideology.²

I remember Bonar Law's mingled rage and perplexity in face of the economists, because they were denying what was obvious. He was deeply troubled for an explanation. One recurs to the analogy between

the sway of the classical school of economic theory and that of certain religions. For it is a far greater exercise of the potency of an idea to exorcise the obvious than to introduce into men's common notions the recondite and the remote.

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There remains an allied, but distinct, matter where for centuries, indeed for several millenniums, enlightened opinion held for certain and obvious a doctrine which the classical school has repudiated as childish, but which deserves rehabilitation and honour. I mean the doctrine that the rate of interest is not selfadjusting at a level best suited to the social advantage but constantly tends to rise too high, so that a wise government is concerned to curb it by statute and custom and even by invoking the sanctions of the moral law.

Provisions against usury are amongst the most ancient economic practices of which we have record. The destruction of the inducement to invest by an excessive liquidity-preference was the outstanding evil, the prime impediment to the growth of wealth, in the ancient and medieval worlds. And naturally so, since certain of the risks and hazards of economic life diminish the marginal efficiency of capital whilst others serve to increase the preference for liquidity. In a world, therefore, which no one reckoned to be safe, it was almost inevitable that the rate of interest, unless it was curbed by every instrument at the disposal of society, would rise too high to permit of an adequate inducement to invest.

I was brought up to believe that the attitude of the Medieval Church to the rate of interest was inherently absurd, and that the subtle discussions aimed at distinguishing the return on money-loans from the return to active investment were merely jesuitical attempts to find a practical escape from a foolish theory. But I

¹ Heckscher, op. cit. vol. ii. pp. 176-7.
² Op. cit. vol. ii. p. 335.

now read these discussions as an honest intellectual effort to keep separate what the classical theory has inextricably confused together, namely, the rate of interest and the marginal efficiency of capital. For it now seems clear that the disquisitions of the schoolmen were directed towards the elucidation of a formula which should allow the schedule of the marginal efficiency of capital to be high, whilst using rule and custom and the moral law to keep down the rate of interest.

in these circumstances, pick out the good projects 'A prudent man', Bentham continues, 'will not which stand in the way of taking legitimate risks every application of the human powers, in which incan be called improvement... It falls, in short, upon the line of any of their pursuits, aim at anything that channel of invention...upon all such persons as, in Of course Bentham is right in protesting against laws genuity stands in need of wealth for its assistance. vour, by the assistance of wealth, to strike into any understood by projectors 'all such persons, as, in the severe on 'projectors' and that a maximum rate of ground that Adam Smith's Scotch caution was too rather than in debts; and for this reason, in a passage pursuit of wealth, or even of any other object, endealegitimate and socially advisable risks. For Bentham interest would leave too little margin for the reward of chance of savings finding their outlet in new investment they will find an outlet in the former. Furthermore, ment or by debts, and that there is no security that Moreover, Bentham's criticisms were mainly on the he defended a moderate application of the usury laws.² for which he was severely taken to task by Bentham,1 he favoured a low rate of interest as increasing the individual savings may be absorbed either by investattitude to the usury laws. For he was well aware that Even Adam Smith was extremely moderate in his

In his Letter to Adam Smith appended to his Defence of Usury.
Wealth of Nations, Book II, chap. 4.

from the bad, for he will not meddle with projects at all."

It may be doubted, perhaps, whether the above is just what Adam Smith intended by his term. Or is it that we are hearing in Bentham (though writing in March 1787 from 'Crichoff in White Russia') the voice of ninetcenth-century England speaking to the eighteenth? For nothing short of the exuberance of the greatest age of the inducement to investment could have made it possible to lose sight of the theoretical possibility of its insufficiency.

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only just failed to reach down to the essence of the whose work contains flashes of deep insight and who unduly neglected prophet Silvio Gesell (1862-1930), quainted with the significance of Gesell, I will give to few of the readers of this book are likely to be well acstrivings as being no better than those of a crank. Since academic economists, I treated his profoundly original clusions in my own way. Meanwhile, like other discover their merit. As is often the case with imme with copies of his works; yet, owing to certain matter. In the post-war years his devotees bombarded him what would be otherwise a disproportionate space. became apparent after I had reached my own conpalpable defects in the argument, I entirely failed to perfectly analysed intuitions, their significance only It is convenient to mention at this point the strange, Gesell was a successful German² merchant in

Having started to quote Bentham in this context, I must remind the reader of his finest passage: 'The career of art, the great road which receives the footsteps of projectors, may be considered as a vast, and perhaps unbounded, plain, bestrewed with gulphs, such as Curtius was swallowed up in. Each requires a human victim to fall into it ere it can close, but when it once closes, it closes to open no more, and so much of the path is safe to those who follow.'

² Born near the Luxembourg frontier of a German father and a French mother.