#### Monetary Base IV Part C

Comments on Green Paper

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HER MAJESTY'S TRILLISURY

MONETARY CONTROL CONSULTATIONS

PAPER BY MERVYN LEWIS

Note by the Secretaries

The attroched Feper by Mervyn Lewis (additional to those already circulated in this series) is circulated for information.

M D K W FOOT

H M Treasury

IS MONETARY BASE CONTROL JUST INTEREST RATE CONTROL IN DISCUISE?

Is monetary base control merely "a means for the markets to generate the <u>interest rates</u> necessary to bring the rate of growth of the money supply back towards the desired path" (Green Paper - our emphasis), or is it something more? If the former, most of the participants to the flagging monetary control debate could eventually reach some form of accommodation, in which interest rates are left more to market forces. Many of the critics of present monetary policies really wanted no more than this in the first place. For their part, HM Treasury and the Bank of England would like to see interest rates at some remove from direct political interference.

The idea that control of the money supply via the monetary base is different from interest rate control was stated forcibly by Milton Friedman to the House of Commons Select Committee (as reported in The Observer, July 6):

"Direct control of the monetary base is an alternative to .... interest rates as a means of controlling monetary growth. Of course, direct control of the monetary base will affect interest rates, but that is a very different thing from controlling monetary growth through interest rates."

If monetary base control is different, we must ask how it works and provide a frame of reference for evaluating its costs and benefits vis-a-vis interest rate control. Our concern is with the behaviour of the banking system, for this is where the money supply problem currently exists.

Base money (alias high-powered money or simply cash) is important to the banking system because it is the ultimate means of payment. Convertibility into cash is one of the characteristics expected of deposits which are treated as 'money', while transferability in the settlement of debts and to make payments is a distinguishing feature of banking services. In an overdraft system, transfers can also re made from accounts in debit, so that liquidity services are provided on both sides of the balance sheet. Banks can be

visualised as purchasing primary securities, pooling them to eliminate risks and combining them with capital, labour, materials and high-powered money to create 'liquidity'. High-powered money has the role as an input into banks' production function.

How much high-powered money is required by the banks depends on the nature of the production process and on institutional arrangements. Banks providing liquidity services face uncertain demand for cash from deposits and from loans where there are undrawn facilities or open credit lines. They are able to employ the law of large numbers to keep cash at low levels, but cannot eliminate the need for cash completely. As a bank lends or invests, the loss of cash puts it in a position where any subsequent deposit withdrawals or loan demands may necessitate sales of securities at a loss or interbank borrowings at unknown rates. These possible costs must be balanced against the benefits of increased income. In this way, the availability of cash limits banks' acquisition of non-cash assets.

Control of the money supply is exercised by restricting the quantity of the factor of production, base money, to the banking industry. Since the monetary authorities have a monopoly over the production of this factor input, they can make it available in less than perfectly elastic supply: in the limit, the supply could be made perfectly inelastic. Barks are then in the same position as firms in any industry for which the inputs required for production are available only at sharply increasing cost. For an individual bank, the restriction of the supply of base money imposes an external cost as banks in the system expand deposits and bid for reserves. bank's supply response is a mixture of a movement along a short-run cost curve and a snift of that cost curve as rising factor prices impose an external pocuniary diseconomy.) An individual bank can react in a variety of ways: by bidding for inter-bank funds, raising deposit (and loan) rates, improving services, cutting back on new facilities, cancelling or reducing existing facilities, selling CDs, The route actually chosen will be disposing of bills or bonds. the one most profitable to the bank.

e immediate difference from the interest rate mechanism presently operated is the involvement of the banks. Following the removal of the corset, the banks are now almost passive spectators in the process of monetary control. In response to an increase in MLR, their 'job' is to raise base rates in line (which they have done), but that is about all. The Bank of England, as it were, appeals directly over their head to the public's demand for credit. meantime, the banks can continue to push out facilities with relative If borrowers are not daunted by the higher interest impunity. rates, the banks could conceive their job to include bidding for deposits and reserves to sustain any expansion of advances. Monetary base conirol, by contrast, impinges directly upon banks' decision-making and provides a pecuniary incentive for them to participate in the process of adjusting their balance sheets to the dictates of monetary policy.

A second difference concerns the adjustment mechanism, which, under monetary base control, would be chosen by the banks on profit-maximising grounds. At present, the form of the adjustment (eq interest rates operating upon credit demand) is chosen by the authorities. If that fails, the authorities must either raise rates further, or wait for credit demands to subside. Until the latter eventuates, banks are supplie with cash to prevent them running out of reserves. Left to themselves, banks could well choose to respond to a reserve shortage in the same way - by raising deposit and loan rates. Should interest rates fail to restrain the demand for money or credit, this could not be the end of A reserve deficiency would still exist and banks would the matter. be forced to try something else. Some assurance would exist that the adjustments would proceed until monetary growth came into line. The idea that there is some new breed of banker who will always eschew asset management for liability management is patently false. If interbank rates are bid up high enough, it would pay some banks to sell bills and honds to the private sector in order to obtain funds for lending out in the interbank market. Liability management is allowed to succeed because the Bank provides the reserves needed to validate deposit expansion.

Perhaps the most important difference is in terms of the implications for behaviour next time round. Once banks are forced to make up reserve shortages by borrowing interbank at 'penalty cost' or by

selling securities at a loss, they are likely to exercise much greater care in future when granting tacilities and open credit lines. Unused facilities are a valuable source of liquidity to customers, and banks might, in different circumstances, be expected to vary the 'price' for this service. There would also be an incentive for banks to refrain from lending and build up reserves when reserve shortages are anticipated. Accordingly, surges in monetary growth may be less likely to occur.

In this description, monetary base control <u>is</u> qualitatively different from interest rate control. At the aggregate level it operates by imposing a quantitative retriction upon banks' intermediation. This is translated directly into individual banks' profit calculus. Both the initial response and subsequent adjustments are determined by market forces, and the rewards and punishments these forces give to banks would seem very considerable benefits indeed. Unfortunately, it is not as easy to be clear about the possible costs.

For restraint upon cash to be an effective control device, it is not enough that its supply be inelastic, as is witnessed by the idea of using negotiable licences to control banks' deposit expansion. with base money, the supply of negotiable licences would be monopolised by the authorities. As banks expand beyond allowable limits, variations in the market price would raise costs against individual Yet is is generally agreed that such a scheme would encourage banking to be done outside the controlled area - particularly in offshore markets. Would the same consequences follow from monetary If banks' holdings of base money were involuntary, as under a reserve requirement, this might well be the case. But we have argued that banks' demand is a voluntary one based on a production function for liquidity services, not an arbitrary restriction upon an institution designated to be a 'bank'. Institutions in the Eurosterling market (not that such a market can really be said to exist, thanks to the Bank of England) which provided substitute liquidity services, would require inputs of high-powered money, just as is the case in domestic markets. What competitive advantages would they have over domestic banks to be able to attract the deposits and reserves needed for liquidity production? Much the same question must be asked of the idea that non-banking intermediaries in domestic markets would provide substitute liquidity services.

But are liquidity services the distinguishing characteristic of money? If they are, then perhaps one-third of £M3 should be excluded from the This is a conservative estimate of the amount that represents wholesale funds of the non-bank private sector, much of which is held in banks which specialise in wholesale banking. type of banking differs substantially from retail banking, which is the model outlined earlier. Retail banks exist by producing liquidity services; they endow claims with attributes of capital certainty, The economic basis of wholesale convertibility and transferability. banking is to lower transactions costs in markets for corporate borrowing and lending and to intermediate within the term structure of In contrast with retail banking, in which virtually interest rates. all deposits are in sterling and withdrawable on demand (or at very short notice), wholesale deposits are for various maturities and in a variety of currencies. Unlike retail deposits, where each bank may have millions of small accounts, to which the law of large numbers can be applied, each bank in wholesale business may have only a few hundred large accounts and is not large enough, relative to the total market for wholesale funds, to apply the same principles.

Because the economic basis of wholesale banking is different and the balance sheet structure differs, a different 'production process' applies. A substantial degree of matching of currency and maturity is the rule, even when, with non-bank business, substantial maturity (Maturity transformation in sterling transformation occurs. wholesale banking is only slightly less than that which now occurs in Euro-currency business.) A critical role is played by the interbank market in 'reconciling' the public's preferences with those of the Funds are channelled from ultimate lenders to ultimate borrowers through several banks. What begin as short-term deposits finish up as rollover loans of several years' duration. Each bank is mismatched, but not to any great extent, and no one bank is left This is in marked contrast with a large share of the transformation. to retail operations, in which the transformation is undertaken It follows that the Bank's fully by the bank accepting the deposits. proposals about prudential liquidity, with the higher requirements in interbank funds, strikes at the heart of wholesale banking, and indicates a failure to understand this type of intermediation.

Our immediate concern, however, is that, for wholesale banking activities, there is no demand for base money. In this sense, much of the British banking system has already progressed to a cashless society. Even the concept of a reserve ratio has little meaning, for the demand for marketable securities (bills, CDs) to cover an open position depends on the mismatching, maturity by maturity, not upon any scale measure of the total balance sheet.

Restraint upon the supply of base money will curtail retail banking and those substitutes for retail banking which involve the production of liquidity services using inputs of high-powered money (or, in a pyramid of credit, claims against retail banks). If, as we have argued, wholesale banking involves different services and different production processes, it is unlikely to be constrained directly by monetary base control. The vital question, then, is, should it?

Analogies are helpful, but which is the correct one? At one extreme, we could, as Friedman does, liken the production of money to that of motor cars, with high-powered money like steel. Steel is a vital and irreplaceable input to the production of motor cars, at least in the short run. By restricting the supply of steel, control could be exercised over the production of motor cars, even though there are different brands and different models. Alternatively, we could envisage money to be like containers. There are several different types of container (steel cans, glass, aluminium, plastic) and many different production processes involving quite different inputs. Each type of container, and its associated input, has its distinctive merits, but all can be substituted at a price. Is the same true of different forms of banking and finance more generally?

Thus the monetary control debate is really a debate about the first principles of monetary economics. Is the aim of monetary policy to control something special called money, or is it to control all borrowings and lendings and all forms of financing in the economy? In the latter case, the Bank's interest rate policies are clearly appropriate. But if money does have a special place, it is unnecessary and inefficient for the Bank to control all borrowings and lendings

when a more direct means of controlling the relevant money supply is available. Monetary base control will involve interest rate variations as a by-product or as a means to an end, but it may not prove necessary to deflate all borrowings and lendings and alter all credit conditions in the economy on the way. Altering all financing demands in order to change one particular form of financing is a blunt instrument.

There is something to be said for both views. Proponents of monetary base control have, somewhat slavishly, applied a theory developed in the United States, with its preponderance of retail banking, to the quite different environment of the British banking system. On the other hand, it is surely the case that those bank and non-bank claims which are backed (directly or indirectly) by base money are more liquid than much of wholesale money, which differs little in character from commercial paper. By ignoring the importance of bace money to liquidity production, the Bank has overemphasised wholesale banking and failed to distinguish money from credit.

24 July 1980 M K Lewis



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6 August 1980

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THIRD REPORT, SESSION 1979-80, MONETARY CONTROL

I am writing to say that the Treasury have taken note of the Committee's Third Report and the comments it offers on the issues explored in the Green Paper, Cand 7858. The Report, and the evidence submitted to the Committee in the course of their work on it, will be taken into account in reaching Government views on possible new monetary control techniques. These should be announced later in the year and will reflect the outcome of all the consultation based on the Green Paper.

J B UNWIN

cc Frincipal Private Secretary
PS/Financial Secretary

Mr Burns o/r

Im Hiddleton o/r

Mr Bridgeman

Mr Britton

Im Codfrey

Mr Williams

Mr MacAuslan

Mr George - B/E

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HER MAJESTY'S TREASURY

MONETARY CONTROL CONSULTATIONS

ARTICLE BY TIM CONGDON

Note by the Secretaries

The attacked article by Tim Congdon, published in the Argust 1930 issue of the National Westminstor Bank Quarterly Review, is circulated for information.

M D K W FOOT

H M Treasury

# The Wonetary Base Debate: Another Instalment in the Currency School vs Banking School Controversy?

#### Tim Congdon

the United States. Supporters of the proposal make frequent references controversies between the Churency and Banking Schools over a century replay, disguised by the different institutional setting, of the and acknowled rements to studies carried out at the Federal Reserve Bank corne from academic economists, mostly of the monetarist persuasion, in John Fullation. Nearly every theme in the monetary base debate is a economists known as the Banking School, led by Thomas Tooke and and Colonel Terrens. The Currency School was opposed by a group of 1850s. Is included such now almost forgotten writers as Lord Overstone intellectual tembers nearer home, the Currency School of the 1840s and of St Louis and the University of Chicago. However, they have other The apparation for the current monetary base proposal seems to have

also there may be a useful lesson in seeing how the nineteenth-century dispute was resolved. connective to econometric researches from the American Mid-West, but An exercise in historical comparison may shed instructive insights on

The Currency Principle and the 1044 Bank Charter Act

was to assume the monopoly of note issue in England by absorbing the note issues of the country banks and it had to ensure that the aggregate note-issuing prerogative was fundamental. It embodied the link with a value of the Bank's gold reserve. The restriction on the Bank's circulation of its own notes did not exceed by more than \$14 million the commodity. In the initial public debate on monetary policy, this be regulated so that the currency behaved as if it were a metallic commodity base by making gold holdings the regulator of the note issue: Department's limetion, on the other hand, was quasi-governmental: it was supposedly free to operate like a private commercial bank. The Issue Userking Department had no power to issue notes and, at its inception, it principle triumphed. The 1844 Bank Charter Act divided the Bank of The central tenet of the Currency School was that the note issue should the was equivalent, when expressed in modern terms, to imposing a England into a Banking Department and an Issue Department. The Currency Principle and monetary base control are almost identical in manticative limit on the monetary base. In this vital respect, the

monetary base is regarded as including not only notes and coin, but also believes by onces at the banking Department. As we shall see, the There are, however, one or two differences in form. Today the

The Commercial Date Ochate

Currency School's neglect of their tole influenced a prismula reciniting of central bank practice and was significant in the Banil, in School's distrust of the 1844 Act. Perhaps an even more improcume the context becomes monetary base central and the Currence School ansets because in the nineteenth central the encept of the improcus supply. In lact been clarified. The momentary base is now seen man instrument to: manipulating the money supply, comprised or tole notes and cain in circulation, and bank caposits. This forms it part of a more motive motive supply is emphasized as a decurrantment of output and price movements. The Currency School did not regard restriction of the note issue in the same way. On the contents, they waste established the motivity character of bank capositis and constrained whether the more independent independent in the contents. The state of the state of the matter of bank capositis and constrained whether the independent in the contents. The state of the state of Riegardo's precepts in his 1810 jumphilet. The state of Fedican.

The Banking School did not conflict with the Christope School on the objective. For them also presentation at the cold school of the £3.17s. 1024d, an owner was imporphise. Their divergence from the Christope School was on how escential regulation of the rave is as was to that objective and on how much discretion could safely of loft to the Bank of England. It is not easy to relate their resistant a that of any twenderly momentary factors. But refractinated from the office Christope from an supporters of the interesting for, in out it, or notice is not supported to the interesting for, in out it is not and to pather. To put their resistant for the count is nutside it, they would both refleve that a precise and model constitution of the familiar policy.

### Currenty or 'crodity's

Peril ups the most straight forward element in the case control has been that it would not control has been that it would not control to a section trigger of the money supply. As a explanation to doctors, a section is required increase in the money supply of two conditions are setting, and the money supply of two conditions are setting, and the relief to a fact of the ratio of the mobile's to the banks' cash holding, and the relief to all here's cash holding is not here as a fact of the mobile strained by the resolved by an apparent in a fact of a fact of a resolved by an apparent in a fact of a fact of a resolved by an apparent of the monetary base idea is that in this words of the Monetary Courd Green Paper, even if "to were practicated required the base sufficiently closely, it is down to be for its word, particle a mere even growth of the monetary supply."

The Currency School also recognized that their argument needed to be validated empirically. But they were more amonthous than modern my natury base supporters. Eacking the interned are concept of the

check then and the prace level, john Steam Mill was trenchant in his rebettula. In order to bring about the chromological agreement required by their theory. They have played such faithful tricks with faces and dires a would be "ought increasile if an eminent practical authority had not taken the treath of increasing them, on the ground of mere history, with an end of the emposure." The "eminent practical authority" referred to by Mill was Thomas Tooke, whose voluminous History of Prices and the State of the Christian claimed to show, on the basis of evidence over the period from 17-2 to 1856, that decreations in the note issue followed, camer than preceded, fluctuations in the price level.

to claim that excessive increases in the note issue were responsible for carly nineteenth century. The Chirency School was incorrect, therefore, THE EXCUSSIVE HELICIALS IN the note issue. conventibility. But ar it was commercial crises which were responsible prior full trien of the subscipabil commercial crises which threatened nace. In the final suges, as prices advanced quickly and higher interest equivated, that merchans would come to the Bank for assistance. This exercise has deed and the note issue increased sharply. The History of worthers, given by perchasing bals with us notes, which raped the note species and marked, commodity perces moved forward and credit England town of mote course of the mate cycle. Typically, during the anagonists. Tooke's position bears a superficial resemblance to the the began is force liquidation, the demand for help from the Bank orans up, nowing the Bank of Tagainst a bystunder seconse the rate at 11.1.1.1 actions to the money supply as a whole, responded to the price determinants of other reconomic developments, has no causative role in investigations on the stability of the demand for money, and their for John Chan by the molecurists, who appeal to economictric These statistical to tabbles taight be thought to parallel the modern whose winch executived events he minute institutional detail, showed that and a faile sampled also was also we the market rate. It was later, as the didution view that the money supply is endogenous and, as a is surjuence unfolded, with new variations, in all the trade cycles of the Life James (secress Prowever, this would be a misinterpretation. he, whith other danking School writers, dononstrated only that the The reaction this conclusion from observing how the Bank of

Fit hors, then, did commercial crises originate? Several accounts are to be found in the leading works of the Banking School, but their common theme is an emphasis on the extension of credit. The main forms of credit ware bills of exchange and premissary notes or, to use Tooke's phrase, produce by a few his view. The creditanstances most conductive to an amount of the circulation of private paper are identical to those which give rise to a spirit of speculation and over-trading. He identified increases in agricultural product prices, due to a poor harvest, and 'the opening of new and extensive markets' as forces giving rise to speculative psychology, but he also thought the rate of interest could be

paper to the Bank's note issue. originating, in most cases in a spirit of speculation and the reaction from great variations in that proportion' and that 'those variations, considerable portion issued through the medium of credit, is subject to dispensed by the Bank of England, were stationary in amount. In brief. it, tend to extend the range, and to accelerate the rate, of the consequent the culprit.2 It followed that 'a currency, consisting as ours does, of a Tooke was sceptical about the stability of the ratio of credit and 'private fluctuations in prices, supposing that the rest of the currency, as

## 'Credit' and the money supply

now term banks' deposit liabilities. Interestingly, the notes held 'in a bankers' drawer were considered to 'exercise as little influence' on prices more than about 6 per cent on the whole sum.' He did not amplify what he meant by 'the whole sum', but it must be close to what we would the clearing-house, leaving a balance to be settled in noise and coin of not debts between themselves. 'Cheques are adjusted by matual transfer at understood that the principal use of notes for bankers was to climinate fancifully, with today's notion of the money supply. Euligition also would be required to perform the same functions as 050 to 000 million of bank-notes and gold. This 'general circulation' may be agreated, not too cheque-clearing, a 'general circulation' of \$250 million 'at the very least notes. He quoted M'Cullech to the effect that, without the expedient of clearing house by cheque far surpassed in amount those completed by and in neither case would the course of monetary transactions be essentially disturbed or altered. Aside from this theoretical possibility, accounts might be commuted, on the contrary, for promissory notes, into a system of book-credits transferable by cheque, or all our banking whole bank-note circulation of this country might be turned tomor row the banking system and not with the agency of the note-issue. 'Why the saw that it was conceptually feasible for all payments to be made through of the mechanical organizations through which credit develops itself. He definition of the money supply as notes and coin in circulation with the descriptions of credit instruments are compared to the now accepted similarity of the two ideas becomes more evident if the Danking School's criticism of the monetary base that the ratio of banks' deposit hebilities to fully-fledged money supply concept. supply definitions again illustrates that Fullarton was edging towards a the twentieth-century practice of excluding vault cash from money and exchanges as 'the gold which is still in the ore'. The anticipation of Fullarton was consident that transactions completed through the London Bank-notes were dismissed as 'the small change of credit, the humblest by Fullarton in the second chapter of his On the Regulation of Currenties.3 public, and bank deposits. Perhaps the best such description was given their cash is too unstable to be relied on for policy purposes. It There is a correspondence between this claim and the present-day

It could be argued against this deduction that Fullarton and other members of the Banking School had ideas which were too vague to assimilate with something as definite as the money supply: they should

note issue as an influence on financial conditions in very similar terms to obliged to rely on bills of exchange drawn against the best local names extension of Bank of England branches throughout the country, its notes of potential substitution between liquid assets was indeed developed in deposits and near moneys, such as building society deposits. The theme holdings can vary substantially in relation to its bank deposits. the monetary base sceptics who today argue that the public's cash in financial technology. These remarks questioned the significance of the growing practice of payment by cheque and the associated improvement increased as much as the level of transactions. He attributed this to the certaintion of Bank of England notes in the country as a whole had not bills were 'a ready succedeneous for the bank-note, whenever the and been scarce in certain localities. In Lancashire traders had been On the Regulation of Currencies. Fullarton noticed how, before the money supply by pointing out the scope for substitution between bank be bracketed instead with the Radeliffe Report tradition with its stress on liquidity? The Radeliffe Report of 1959 questioned the primacy of the as monetary media. The implication, in fullarion's epinion, was that recessities of the public may call them again into use'. Another Only as the branch network grew had bills of exchange been supplanted her thenon he observed was that, over a number of years, the

One essential ingredient in the Banking School's critique of the Currency School was, therefore, that control over the Bank of England's note issue weard not establish control over 'credit' and it was credit which governed the trade cycle. Although it may be improper to equate 'credit' with today's 'money supply', there are certainly points of resemblance between the two concepts. It follows that the Banking School's position accords with the modern criticism of monetary base control that it would not lead to more exact money supply targeting.

The danger of disintermediation

of monetary conditions. The recent evolution of the American banking overcome by imposing a mandatory minimum ratio. But, as the morbet to escape the Federal Reserve's burdensome reserve system, where deposits have been shunted offshore into the Euro-dollar As a result, the money supply may be rendered misleading as a measure since no interest is paid on eash and profits are lost on their holdings, may be above what banks need for their own business requirements and laterfarence which leads to disintermediation. The prescribed minimum are uncompetitive, disintermediation into alternative financial assets, depend on the competitiveness and efficiency of the banks. If they money supply, and the attractions of switching to non-monetary liquid The trustworthiness of the link between the monetary base and the they are handicapped in their rivalry with other financial intermediaries consider that fractuations in banks' cash-to-deposits ratios should be institutions is induced. Some advocates of monetary base control be avoided by not putting artificial restraints on the banks (or other Jonator, Control Green Paper emphasizes, it is exactly this kind of equirements, is an instructive warning of the dangers. These evils are to

financial institutions, for that matter), but by monitoring the expansion of all forms of credit and liquidity. The Banking School recognized this truth in the 1840s and favoured less regulation of the banks than did the Currency School. The principal manifestration of its more liberal attitude was its refusal to accept that note issue should be an exclusive prerognitive of the state. The country banks' note issue should remain unrestricted, contrary to the provisions of the Bank Charter Act. In an 1855 issue of his Circular to Bankers, William Newmarch, who helped Tooke in preparing the final volumes of A History of Prices, reconsumended multiple issues and inveighed against the Bank of England's monopoly. 'The Schastopol of Russia is not more dangerous to the liberties and rights of Europe than the great monetary Schastopol of Threadneedle-street.'4

### Lender of last resert

But if the Banking School was right that regulation of the note issue was not a sufficient lever over the financial system and attempts to make it so would cause disintermediation, it could not deny that Bank of England notes differed in an essential respect from the notes of country banks or bills of exchange. They were much more secure. As the Bank of England maintained the largest single gold board in the country and it was banker to the government, it was unlikely that it would ever become inclinate its note liabilities were free from default risk and its deposit liabilities were as good as its notes while they remained freely convertible into each other. Torreps argued that, since Bank of England notes were legal tender, they had an ultimate 'paying power', whereas cheques had only a 'purchasing power'.' For this reason, the Bank's note issue had in his ynew greater importance than alternative means of payment.

The risk-free nature of Bank of England notes gave them the power to improve the financial system's liquidity and support other banks. It was understood throughout the nineteenth century that the Bank would always provide such support if needed. Its acceptance of a lender-of-last-resort role has been dated to Bagehot's time and, in particular, to his Lombard Street, which was published in 1873. Moreover, many observers had earlier pointed out its duty to discount bills in difficult conditions.

Among them were members of the Currency School. Overstone conceded the force of assertions from Bank of England directors that 'the contraction of issues made upon discounts is, in times of commercial pressure, impracticable' and said that, if the Bank were to conserve its position by refusing to discount, 'she must produce upon the money-market a pressure ruinous from its suddenness and severity', saving herself 'by the destruction of all around her'.' This admission would seem to distinguish Overstone from the modern inonetary base advocates, who object to automatic assistance by the Bank to the discount market because it causes a change in the quantity of inonetary base assets. They would prefer the authorities not to a fjust the quantity of assistance, but the price at which it is given (ie, the rate of interest).

The Man tom Some Nations .

Dut the difference is slight and only one of emphasis. Although Overstone did not dissent on the need for support in crisis circumstances, he was ready to justify large and frequent interest rate swings. Since the price of money was set by supply and demand, there was no ground for disquiet. There was 'policy, as well as . . . justice, in leaving every man free to juege of his own interests, and to decide for himself the price which it may be worth his while to pay'. He applicated the 1853 repeal of the Usary Laws, which had limited the Bank's discount rate to no more than 5 per cent, since an unfettered discount rate would provide 'a more registrate. . . source of relief' than rationing credit when the Bank come under pressure. To translate this into modern language, interest rate feasibility had to compensate for less reliable assistance to the discount mather than for greater attention to the quantity of notes and coin. It is farcinating that of order attention to the quantity of notes and coin. It is farcinating that the poored completely. The same that interest should be ignored completely. The same that interest interest should be ignored completely.

# Evolution of monotary control

Although the Currency School's recommendations were embodied in the i844 Act, the Bank's financial management in succeeding years was a variance with both the spirit and, at times, the letter of the legislation. On three occasions, in 1847, 1857, and 1856, it was necessary to suspend to Act. The Banking i Separtment's reserve of notes and gold havi run so that the first Banking is such orderized to expand the note issue above the reling set in the Act such otherwise it would have had to stop discomplies bills, which would have caused a catastrophic financial crisis. Both fit theory and Fooke had predicted, shortly after it received parliamentary approval, that the 1844 Act would have to be relaxed. Their warrings soon preved correct.

a panic set in. Because of the excessive scale of its commitments, the The 1847 crisis arose largely because the Bank of England exploited its scale, following the Currency School's interpretation of the legislation, touch £9 million or gold close at hand in the issue Department. ionn Bull peragsed by Peel waving the Sank Charter Act and unable to rolley was a suspension of the Act by which it was supposedly regulated on it. The climes to the Bank's aggressive, profit-maximizing lending Easking Department's reserve proved inadequate to meet the demands developed, concern about the Bank's ability to redeem its notes arose and expand its business. The reaction came in 1847. As an outflow of gold with the Bank's discount rate generally below the market as it sought to and leter assessment, 'Much of this increased credit seems to have gone in to conduct the Banking Department as if it were a private commercial domestic radioaris. " Easy credit prevailed throughout 1845 and 1845, support of special river or at least questionable, enterprises, in particular 12,116,630, By 28 February 3346, they were \$13,137,000. According to body. On 7 September 1844, the Department's private discounts were and carried a cartoon on 'The Obstruction in Threadneedie Street' with

although possibly lucrative, competition with other banks. What has lender-of-last-resort activity. It had to avoid indulging in direct, or in exceptional circumstances. This principle confined it, in effect, to Rule' whereby advances were restricted to assistance at quarterly strains After a similar trauma in 1857, the Bank established and obeyed the '1858 commercial bank. Henry Gibbs, Governor from 1875 to 1877, wrote Department and its reserve of notes and bullion, evolved under two in response to the proportion between bankers' balances at the Banking could make itself 'the real arbiter' in the City.9 that by open market operations affecting bankers' balances the Bank Department from Overstone's conception of it as just another particularly able Covernors in the 1870s. It further distanced the been termed the 'Greene-Gibbs' policy, in which Bank Rate was adjusted

bankers' balances have been the lynchpin of most important monecary operations'. Indeed, ever since the 1850s actual or potential changes in seeks to affect short term interest rates through its open market per cent of eligible liabilities as Bank of England balances is described as Paper, where the requirement that the London clearing banks hold 11/2 policy measures. The observation is close to that in the 1980 Monetary Control Green effectively the fulcrum on which the Bank of England works when it

with the money markets it was abis to influence interest rates and credit conditions. As he wrote in The History of Prices, The due regulation of the Banking Department and not the Issue Department. The criterion the currency depends, in any intelligible sense of the expression, upon Banking Department was the genuine locus of power. By its connections exchange notes and gold at the public's, not its own, initiative. The Issue Department was necessarily a passive entity, since its task was to Tooke was perhaps the first economist to appreciate this. He saw that the The Banking School's insight this way, interest rate changes could protect the Department's solvency was raised, while a comfortable reserve holding allowed adjustions. In reserve. If this was deemed too low the rate at which it would discount which governed the Banking Department's actions was the size of its into notes. The consequence was that the Banking Department's and ensure that it could maintain the convertibility of deposits left with it position, with its liabilities dominated by bankers' balances, and not the level of the note circulation (a liability of the issue Department), became the critical determinant of monetary policy.

intriguing parallel here between the Currency School's default risk that they were serviceable in lender-of-last-resort privilege. But it was because Bank of England notes were free from operate as lender of last resort was independent of its note-issuing The Currency School's error was to think that the Bank's ability to misunderstanding about the nature of a central bank's power in a an analytical confusion which led to operational inefficiency. There is an intervention. The division between Banking and Issue Departments was

formerial emergency and the embivalence of modern monetary base control advocates towards the lender-of-last-resort function.

The parabel can be pushed further. The Banking School condemned the sterifization of gold in the issue Department. If the Bank's bullion remained in one pool, rather than being split into two, it would be able to withstand a drain for a longer period and with less anxiety. Because too much gold was peaned up in the Issue Department, the Bank could not take a relaxed view of incipient pressure and defensive interest rate parintiers had to be larger and more frequent. Tooks accused the 1844 Act of being 'instrumental in aggravating or intensitying . . . the extremes in interest rates which had been conspicuous after its passage'.

present debate and that over 100 years ago. persistence of this gap represents another common thread between the insolutionic towards interest rate fluctuations on the other, is wide. The strict control of the base would throw on to financial markets the whole interest-rate of inges induced by the banks in their attempts to meet their England's view on the one hand, and Overstone and Pepper's bushed of adjustment at present "shared" by the Bank of lingland's lender reserve requirements. But even for control over longer periods of time whether clay-by-day monetary base control - 'Could possibly work, with some inconvenience, and with a disturbance more or less of existing reserve, the Bank Charter Act demanded very exact regulation over the vel. Hity. By putting the emphasis on solely the Banking Department's objection to monetary base control - that control over the base requires Questerly bulletin, which contained an article arguing that it was dubious sharp transitions from one interest rate to another were 'always attended pineteenth-certury monetary base. Tooke complained that the resulting mainly because of the time it would take for markets to adjust to the arrangements'. The sentiment is echoed in the June 1979 Bank of England There is a striking resemblance between this protest and a typical "ast resort facilities". The gap between Tooke's and the Dank of raterest rate swings and the more precise the control the greater the

# ne resolution of the nineteenth-sentury debate

The 1844 Bank Charter Act survived. Indeed, the seventy years between its passage and the outbreak of the First World War are remembered as a brievan age of financial stability. As the underlying rationale for the Act was near to the argument for monetary base control today, it seems that Professor Brian Griffdis and Pepper, the two leading contemporary professor is for the idea, would be right to appeal to history as an ally in their polemies with the authorities.

But that would be a superficial conclusion. The note issue was subject to a precise guarantative limit in the nineteenth century, but the monetary base as a whole was not. On the contrary, the Bank of England stood ready — both before and after Bagehot's classic exposition of the lander-of-last-resort function in Lombard Street — to give assistance to the immed system both to counteract adverse seasonal cash flows and to be fore confidence when a crisis threatened. The Bank's preparedness to

erroneously, to the belief that the Bank of England could engage in two quite distinct activities - profit-maximizing commercial banking and quasi-governmental regulation of the note issue. bankers' balances was a conceptual oversight which led logically, but counterpart to the monetary base. The Currency School's neglect of they were not fixed in quantity, neither was the nineteenth-century discount bills implied elasticity in the level of bankers' balances. Since

status from those of an ordinary bank. Because of their stronger rates, not the quantity of monetary base assets. 19 should be governed by changes in bankers' balances and associated would be restored. The system rested on two premises -- that Bank rate need for central bank accommodation. In due course, a safe Propertion down the domestic economy, curb credit and reduce commercial banks' fell unduly it would raise Bank Rate. An interest rate increase would pull the Proportion of notes and gold to total Banking Department liabilities bankers' balances as much as the system required, but if in consequence antagonists. The most essential rule was that the Bank would increase the Bank's actual operating rules more quickly and clearly than their analytical grasp and insight, Tooke and his associates came to understand that this role depended on the Bank's liabilities having a quite different position, its silence on the lender-of-last-resort role and a failure to see The Banking School identified the lacuna in the Currency School movements in the Proportion; and that credit was responsive to interest gold into London and, hence, into the Bank's coffers; it would also slow

### The medern context

opinion, 'Such a system could certainly be operated, and would not necessarily involve significant changes in the financial system. The only would be that the appropriateness of the interestry bese would be judged in relation to a pre-ordained arithemetical growth target, not the practical possibility for the 1980s. A desired path for the base, consistent with a sterling M3 target, would be calculated and divergences from it Monetary Control Green Paper refers quite sympathetically to thir as a adequacy of gold reserves. substantive difference from the late nineteenth-century arrangement would trigger Minimum Lending Rate adjustments. In the Green Paper's the base being allowed to vary according to banks' demands. The is tantamount to relating interest rate changes to the monetary base, with These two premises can be translated into the modern context. The first

and, in particular, of credit channelled through the banking system; their such an interpretation is correct, the Bank of England now termed 'the money supply' is equated with ainsteenth-century much more extensive information about the amount and nature of credit disadvantage is greater susceptibility to political pressures three or four years. The advantage held by present-day Bank officials is 'credit'. We argued earlier that Fullatton was thinking on these lines. If such an interpretation is correct, the Bank of England's policy before 1914 was very much the same as the strategy it has adopted in the last The second premise can be expressed in today's vocabulary if the concept

courroversy is that this is a sound and viable approach. There is no need Each must continue to permit the eathering of each to adjust to banks' requirements to and emerce us will by changing the price at which cash is As the money supply gives more behaviourally interesting signals about the economy than the monetary base, the authorities' current preference is for inverse rates to be geated to deviations of money supply from to monetary base control would extent. for the radical institutional upheavid which a full-blooded commitment carget, rather than for a monetary base-related system. Above all, the alled. The lesson of the Cherency School vs Banking School

comparible with price text stability then before or since. As Keynes noted in 1922, looking buck nostalgically to 'the general enjoyment of ease and progress' below 1914, 'gold might not possess all the rheoretical supply targes should not be allowed to hide the remarkable continuity in pland institution in farificially regulated stendard' formalized in namual aroney supply targets. But the shift from the gold standard to money eredicting as the mandation for a currency system. Selfance must be compensed with and had proved reliable in practice? 11 Today gold lacks advantages of an articically regulated standard, but it could not be th. Bank of England's broad objectives and operational procedures over continued to be diversification rate as the money supply more nearly arraces, by an mae, and gold pag and changes in financial reclinidosy predominated and it was the quantity of paper money which determined thy managerous were acquiry conducted in the metal. Paper money as each die Carmency and Banking Schools intended, was gold. But very Outside its resilience to shocks and its evolution by adaptation to events, prince conserve system was successful only by accident. Its base

main thems was thet, this most neckts feature of economic life is the tendency of self-interest to exoggenate the similar of pelicas above the unbow the trub aquilibrium point. (TE Gregory, An harodiction to Tooks and Yournaren's "A clustery of Poices". Ning & Co., Lundon 1923, p. 18) Arguebly, that is also that There is the gibb and become or the medical law Prices of the Fibral Years from 1793 to 1822. John the is a law of the gibb of the control of the polyment of the control of the polyment of the control determine full, and its referenciate to business specification, is intriguing, it has been said that Tooke's Sinhi, etc. opto president fermany, tempinano contian folto. 1988 Tudae, il 15. gibs. Indibudia critici ni prime Luc Preus el en Hitto

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Biographical Note
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