

his pamphlet into a *Discourse About Trade* (1690), an anonymous book reprinted three years later as *A New Discourse of Trade*, with Child's name blazoned on the title page. It was the *New Discourse* that was to make such an excessive impression on eighteenth century thinkers. In addition to the renewed arguments for lower interest, the *Discourse* and the *New Discourse* added more apologetics for the East India line on trade and on monopolies.

In response, John Locke's new political patron, now that Shaftesbury had died, Sir John Somers, MP, apparently asked Locke to expand his 1668 paper to refute Child's and other proponents of the 4 per cent bill. Locke responded the following year with his expanded book, *Some Considerations of the Consequences of the Lowering of Interest and Raising the Value of Money* (1692) which brought Locke's previously unpublished arguments into public debate. Locke's work may have been influential in the 4 per cent bill once again being killed in the House of Lords.

The latter part of Locke's *Considerations* was devoted to the great recoinage controversy, into which England had been plunged since 1690. In that year, England's basic money stock of silver coins had deteriorated so far, due to erosion and coin-clipping, and the contrast of these inferior 'hammered' coins to the newer, uneroded and unclipped 'milled' coins was so great, that Gresham's law began to operate intensely. People either circulated the over-valued eroded coins and hoarded the better ones, or else passed the poor coins at their lower weight rather than at their face value. By 1690 the older hammered coins had lost approximately one-third of their worth compared to their face value.

It was increasingly clear that the Mint had to offer recoinage into the new superior coins. But at what rate? Mercantilists, who tended to be inflationist, clamoured for debasement, that is, recoinage at the lighter weight, devaluating silver coin and increasing the supply of money. In the meanwhile, the monetary problem was aggravated by a burst of bank credit inflation created by the new Bank of England, founded in 1694 to inflate the money supply and finance the government's deficit. As the coinage problem came to a head in that same year, William Lowndes (1652–1724), secretary of the treasury and the government's main monetary expert, issued a 'Report on the Amendment of Silver Coin' in 1695 calling for accepting the extant debasement, and for officially debasing the coinage by 25 per cent, lightening the currency name by a 25 per cent lower weight of silver. In his *Considerations*, Locke had denounced debasement as deceitful and illusionist: what determined the real value of a coin, he declared, was the amount of silver in the coin, and not the name granted to it by the authorities. Debasement, Locke warned in his magnificently hard-money discussion, is illusory and inflationist: if coins, for example, are devalued by one-twentieth, 'when men go to market to buy any other commodities with their new, but lighter money, they will find 20s of

their new money will buy no more than 19 would before'. Debasement merely dilutes the real value, the purchasing power, of each currency unit.

Threatened by the Lowndes report, Locke's patron John Somers, who had been made Lord Keeper of the Great Seal in a new Whig ministry in 1694, asked Locke to rebut Lowndes's position before the Privy Council. Locke published his rebuttal later in the year 1695, *Further Considerations Concerning Raising the Value of Money*. This publication was so well received that it went into three editions within a year. Locke superbly put his finger on the supposed function of the Mint: to maintain the currency as purely a definition, or standard of weight of silver; any debasement, any change of standards, would be as arbitrary, fraudulent, and unjust as the government's changing the definition of a foot or a yard. Locke put it dramatically: 'one may as rationally hope to lengthen a foot by dividing it into fifteen parts instead of twelve, and calling them inches...'.¹⁶

Furthermore, government, the supported guarantor of contracts, thereby leads in contract-breaking:

The reason why it should not be changed is this: because the public authority is guarantee for the performance of all legal contracts. But men are absolved from the performance of their legal contracts, if the quantity of silver under settled and legal denominations be altered...the landlord here and creditor are each defrauded of twenty percent of what they contracted for and is their due...¹⁷

One of Locke's opponents both on coinage and on interest was the prominent builder, fire insurance magnate and land bank projector, Nicholas Barbon (1637–98). Barbon, son of the fanatic London Anabaptist preacher and leather merchant and MP Praisegod Barbon,¹⁸ studied medicine and became an MD in Holland, moving to London and going into business in the early 1660s. In the same year as Child's *Discourse About Trade*, Barbon, who had just been elected to Parliament, published the similarly titled *Discourse of Trade* (1690), again timed to push for the 4 per cent interest bill in Parliament. An inveterate debtor and projector, Barbon of course would have liked to push down his interest costs.

In 1696, Barbon returned to the lists in a bitter attack on Locke's *Further Considerations* on the coinage. Arguing against Locke's market commodity, or 'metallist', view of money, Barbon, urging devaluation of silver, countered with the nominalist and statist view that money is not the market commodity but whatever government says it is. Wrote Barbon: 'Money is the instrument and measure of commerce and not silver. It is the instrument of commerce from the authority of that government where it is coined...'¹⁹

Fortunately, Locke's view triumphed, and the recoinage was decided and carried out in 1696 on Lockean lines: the integrity of the weight of the silver denomination of currency was preserved. In the same year, Locke became the

dominant commissioner of the newly constituted board of trade. Locke was appointed by his champion Sir John Somers who had become chief minister from 1697 to 1700. When the Somers regime fell in 1700, Locke was ousted from the board of trade, to retire until his death four years later. The Lockean recoinage was assisted by Locke's old friend, the great physicist Sir Isaac Newton (1642–1727) who, while still a professor of mathematics at Cambridge from 1669 on, also became warden of the Mint in 1696, and rose to master of the Mint three years later, continuing in that post until his death in 1727. Newton agreed with Locke's hard-money views of recoinage.

Barbon and Locke set the trend for two contrasting strands in eighteenth century monetary thought: Locke, the Protestant scholastic, was essentially in the hard-money, metallist, anti-inflationist tradition of the scholastics; Barbon, on the other hand, helped set the tone for the inflationist schemers and projectors of the next century.²⁰

11.4 The North brothers, deductions from axioms, and Tory *laissez-faire*

Weighing in on the side of John Locke, not only on interest rates but also in a general and comprehensive vision of economic *laissez-faire* that even surpassed Locke, were two brothers, Dudley and Roger North, who came from a distinguished Tory family. Here was a fascinating convergence of views of a radical Whig, and high Tories and zealous subjects of Charles and James II. This juncture presaged a later meeting of minds of 'extreme Left' and 'extreme Right' during the eighteenth century, when the imperialist–Whig–mercantilist one-party Establishment, from 1715 to the 1750s, was opposed on the Left by radical libertarian Commonwealthmen and on the Right by the anti-imperialist, Catholic or proto-Catholic opposition, all agreeing on denunciations of the mercantilistic, high tax, high public debt, central banking state.²¹

Dudley and Roger North were sons of the fourth Baron North. Showing little aptitude for schooling, Dudley (1641–91), went to Turkey and became a prominent trader, as well as a director of both the Levant Company, which had been granted a monopoly of English trade with the Middle East, and the African Company, which enjoyed a monopoly of trade with that continent. Dudley North returned to London from Turkey in 1681, just in time to aid King Charles and his elder brother, Francis, Lord Guilford (1637–85), in the patriotic cause of trying to indict John Locke's patron, Lord Shaftesbury, on the charge of treason. Francis, a distinguished jurist, had risen swiftly from solicitor-general to attorney-general, to Lord Chief Justice of the Common Pleas, and finally, in 1682 at the age of 45, to Lord Keeper of the Great Seal, the highest law office in England. Indictments for treason had to be handed down by grand juries appointed by sheriffs of London, and so Dudley North,

in a famous and irregular election, ran for and was elected sheriff, after which he and his juries became scourges of the Whig party.

At the end of the year, Dudley North was knighted by the king for his services, and soon rose in appointive office, becoming commissioner of the customs, MP and manager for King James II of all revenue matters in Parliament.

Toward the end of his brief but distinguished term in government service, Sir Dudley was inspired to think deeply about the two main monetary and financial questions agitating Parliament: the 1690 law to push down the rate of interest, and the recoinage question. Dudley wrote two *Discourses upon Trade* in 1691, one on interest and one on coinage, along with a postscript, that was scheduled for publication as a pamphlet when Dudley North died unexpectedly on December 31. His younger brother Roger (1653–1734), who was helping Dudley edit the booklet, then revised the draft, added a preface, and published it anonymously in early 1692. Despite the booklet's brilliance, and its systematic devotion to *laissez-faire* and hard-money views, the tract sank without a trace, and was not at all influential in the development of eighteenth century economic thought or in monetary or financial policy.

Roger North was not only the youngest of the brothers, he outlived them all by decades. Himself a queen's attorney-general, he spent much of his life defending his brothers' reputations. He wrote voluminously in his lifetime on music, accounting, law, the English constitution, and on numerous philosophic and scientific subjects, but natural reticence led him to keep all these writings unpublished. A decade after Roger's death, his biographies, or *Lives*, of three of his eminent brothers were published, in two volumes, in 1742 and 1744.²²

Even the publication of these two well-written volumes, however, made no dent in the history of economic thought until resurrected and praised by James Mill and by John Ramsay McCulloch in the early nineteenth century.²³

Roger North, who in his preface explained the groundwork and methodology of his brother and made his conclusions more consistent, pointed out the innovation in Dudley's method of economic analysis. For Dudley pioneered, at least in the history of English thought, the method which would later be adopted by Cantillon and Say and Senior, and which Ludwig von Mises would, in the twentieth century, call 'praxeology'. Praxeology is economic theory resting on a few broad, self-evident axioms grounded in apprehension of reality, then logically deducing the implications of these emphatically true axioms. But if *A* implies *B*, *C*, etc., and *A* is definitely true, the deductions can be accepted as truths as well.

Roger wrote of Dudley's method in his preface: 'I find trade here treated at another rate than usually has been; I mean philosophically; for...he begins at the quick, *from principles indisputably true*....'²⁴ The older method of reason-

ing, Roger North added, 'dealt in abstracts more than truths', in 'forming hypotheses to fit abundance of precarious and insensible principles'. In contrast, the new method, which North attributed to Descartes, builds knowledge 'upon clear and evident truths'.

In addressing trade and its problems, Dudley North began in his first discourse by setting forth the clear and simple general axiom or principle: 'Trade is nothing else but a commutation of superfluities'. In other words, as Buridan and the scholastics had emphasized but the world had forgotten: men only 'commute' or exchange goods or services because each benefits more from the good he receives than from the good he gives up in exchange (his 'superfluity'). Trade, therefore, whether intranational or international, benefits both parties; trade is not a Montaigne-mercantilist form of warfare where one party or nation exploits, or benefits at the expense of the other trader. Wealth and riches, then, are the goods that people are able to produce and accumulate, and not the money, the gold or silver, that enables them to buy those goods. Dudley North concludes that 'he who is most diligent, and raises most fruits or makes most of manufactory, will abound most in what others make or raise, and consequently be free from want and enjoy most conveniences, which is truly to be rich, although there were no such thing as gold, silver or the like...'.

There is no magic, then, to gold or silver; they are simply commodities selected by the market for their special qualities to be monies; as Dudley North says, gold and silver, in contrast to other market metals, are 'by nature very fine, and more scarce than others', and 'imperishable, as well as convenient for easy storage...'.

Proceeding from there, North rediscovers the scholastic analysis of money. If gold and silver are commodities, their value is determined, as are all other commodities on the market, by supply and demand.

Having laid the groundwork in systematic and general analysis, Dudley North proceeds to the vexed question of the rate of interest. In the market, North points out, some people, in consequence of hard work and judgement, are able to accumulate property. If the property is accumulated in the form of land, the landowners will rent out some of the land to those who wish to cultivate it. Similarly, those who accumulate property in terms of money will 'rent out' their money, charging a rate of interest. And just as the rental price of land on the market will be determined by the supply and demand of land, so the interest rate – the price of loans – will be determined by the supply and demand for credit.

Since interest is a market price, government control will have consequences as injurious as the control of any price. Interest is low because the supply of capital is high; low interest itself does not create abundance of capital. As Letwin paraphrases North: 'Nothing can lower interest rates ex-

cept an increased supply of capital and as no law can by fiat increase the community's supply of capital, the proposed law is futile and injurious'.²⁵ Furthermore, North pointed out: usury laws will reduce the supply of savings and capital and thereby *raise* instead of lower the market rate of interest; and the quantity of trade will diminish. Moreover, intervention to reduce interest rates is unjust, because all prices should be treated alike, and be equally free.

In his discourse on coinage, North did not really deal with the recoinage question, but he anticipated Smith, Ricardo and the classical economists in his keen and principled hard-money analysis. Everyone cries about a 'shortage of money', North noted, but what they really *want* is more goods, or, in the case of merchants, what they really mean is that the prices for their goods are not satisfactory. Analysing the components of the demand for money and its supply, North traced transactions and emergency demands, as well the different aspects of money supply. Unfortunately, he faltered when discussing how much money a nation really *needed*, failing to realize that *any* supply on the market is optimal; he believed that an increase in trade required an increase in the supply of money, not understanding that an increased demand for money could simply raise the market value of money (i.e. lowering prices), thereby increasing the value of each unit of currency.

Despite this failure, however, North ended up in the right *laissez-faire* place, for he pioneered breaking down the supply of money into coin and bullion. He demonstrated that coin, being more suitable for exchange, would tend to command a market premium over bullion. However, the coin premium is regulated by the respective supplies and demands for coin and bullion. Thus, if there is an increase in the stock of coin, the premium over bullion would fall, and coin would tend to be melted down into bullion. If, on the other hand, there is a shortage of coin, the coin premium would rise, and more people would mint bullion into coin. In this way, coin and bullion would tend to be kept in equilibrium. North likened the process to two 'buckets': 'Thus the buckets work alternately; when money is scarce, bullion is coined; when bullion is scarce money is melted'.

So although Dudley North never reached the point of saying that the supply of *money*, compared to trade, is always optimal, he arrived at a similar *laissez-faire*, or market-equilibrating, conclusion by saying that no one has to worry about the supply of *coin*, which will always be kept optimal on the market.

As a result of his systematic, praxeological analysis, Dudley North arrived at firm, principled *laissez-faire* conclusions across the board. He opposed any usury laws: 'It will be found best for the nation to leave the borrower and the lender to make their own bargains'. He opposed any sumptuary laws; he denounced laws trying to keep gold and silver inside a country as doomed to failure. Government laws and decrees could only diminish, and never promote human energy, thrift and ingenuity.

But it was Dudley's brother Roger who took the final step, not only in explaining his brother's methodology, but also in expounding consistent *laissez-faire* conclusions. Attacking government intervention across the board, Roger North declared:

There can be no trade unprofitable to the public, for if it prove so, men leave off; and wherever the trades thrive, the public, of which they are part, thrives also. No law can set prices in trade, the rates of which must and will make themselves. But when such laws do happen to lay any hold, it is so much impediment to trade... All favour to one trade or interest against another is an abuse...

Therefore, concluded Roger, 'Laws to hamper trade, whether foreign or domestic, relating to money or other merchandises, are not the ingredients to make a people rich...'

What *can* government do for a prosperous economy? 'If peace be procured, easy justice maintained, the navigation not clogged, the industrious encouraged...' in short, wrote North: 'It is peace, industry and freedom that brings trade and wealth, and nothing else'.²⁶

11.5 The inflationists

It is not surprising that mercantilists, with their concentration on greater revenues and power to the state, should fasten on inflationist schemes of creating bank paper and credit, as well as government paper money. Such proposals and schemes, however, had to wait for the discovery of printing in the fifteenth century, for the development of bank paper and fractional reserves in sixteenth century Italy, and finally, for the invention of government paper money and central banking, both dubious innovations of Britain in the 1690s.

The first English inflationist was William Potter, whose most famous tract was *The Key of Wealth* (1650). It was Potter whose theories and proposed schemes set the stage for more famous inflationist followers, such as the Scotsman John Law. Potter, who worked in the government land office, began with the generally agreed axiom that a greater amount of money is beneficial to society. But with impeccable logic, Potter asked: if more money is good, why shouldn't a perpetual and greater increase of money be even better? Why indeed? Why not an increasing supply of money leading to infinity?

Potter offered a plethora of money-creating schemes, in which paper money would be secured, not by specie, which is inconveniently scarce, but by the 'nation's land'. More relevantly, of course, paper notes can actually be redeemed in physical gold or silver coin, whereas redemption of notes 'in land' would prove a chimera. How are you supposed to carry around a few acres of land with you to make exchanges? But that of course is the idea of a 'land

bank': money seemingly and in the eyes of the deluded public backed by the land of the nation, but actually not backed at all.

William Potter saw other wonders emerging from a land bank. Thus, increasing the money supply would increase land values, and thereby increase the 'value of the backing' of the money: a sort of magical perpetual motion machine! Actually, of course, the increased land values simply reflect the increasing prices and values caused by the manufacture of more money.

Since Potter was anxious to inflate money and land values, he was almost frantically opposed to 'hoarding', since he realized that if the new money were 'hoarded', that is piled up in cash balances and not spent, the supposed benefits of inflation would not accrue. Indeed, one reason Potter greatly preferred paper money to specie is that paper is far less likely to be 'hoarded'; this means, of course, that paper money is far more likely to depreciate sharply in value as people try to get rid of it rather than add to their cash holdings.

William Potter, however, was cagey about prices rising as a result of his proposed monetary inflation. He believed, instead, that the increased money supply would greatly expand the 'volume of trade' and therefore the amount of production of goods, and that wealth would therefore accumulate. Potter preferred to believe that all the increased money supply would be absorbed in increased production, so that prices would not rise at all; but even if prices rose, everyone would be better off. Rising prices, of course, is the Achilles heel of inflationists' schemes, so that all of them deprecate the extent of subsequent price inflation and currency depreciation. They did not recognize, of course, that the 'volume of trade' may increase in money terms, but that this gain, like the alleged rise in land values, would simply reflect the increase in all monetary terms and values as more money supply is created and spreads throughout the system.

The argument of the alleged increase of trade and production largely rested on a flimsy analogy to the physical sciences. The Englishman William Harvey had only recently, in 1628, discovered the circulation of the blood within the human body. And Potter launched the very popular analogy between blood in the human body and money in the body economic. Just as people depend on the circulation of their blood, so the economy needs the circulation of money. But the inflationist notion of the more money the better can scarcely be supported by this feeble analogy; after all, who advocates the more blood the better in the human body, or the faster the circulation the better?²⁷

In his bold moments, William Potter actually maintained that monetary inflation would cause prices to fall(!). Trade would be vivified and production would increase so greatly that supply would rise, and prices would fall.

William Potter, however, proved to be only preparation for the *locus classicus* of inflationism, the prince of proto-Keynesian money cranks, both theorist and

activist, John Law of Lauriston (1671–1729). Son of James Law, a wealthy Scottish goldsmith and banker, John was born and grew up in Edinburgh, proceeding to squander his father's substantial inheritance on gambling and fast living. Convicted of killing a love rival in a duel in London in 1694, Law bribed his way out of prison and escaped to the Continent. After a decade in Europe pondering monetary problems, Law returned in 1703 to Scotland, where he was not subject to arrest. There, Law concentrated on developing and publishing his monetary theory *cum* scheme, which he presented to the Scottish Parliament in 1705, publishing the memorandum the same year in his famous or infamous tract, *Money and Trade Considered, with a Proposal for Supplying the Nation with Money* (Edinburgh, 1705). The Scottish Parliament considered but turned down his scheme; the following year, the advent of the union of Scotland with England forced Law to flee to the Continent once more, since he was still wanted by English law under the old murder charge.

Karl Marx, in a sense, should have been proud of the way John Law 'unified theory and practice' in his proposal. On the one hand, Law was the theorist, arguing for a central land bank to issue inconvertible paper money, or rather, paper money 'backed' mystically by the land of the nation. As a crucial part of his proposal, the grateful nation – in this case Scotland – was supposed to appoint Law himself, the expert and theoretician, in charge of putting this inflationist central bank scheme into effect.

John Law, as his subtitle states, proposed to 'supply the nation' with a sufficiency of money. The increased money was supposed to vivify trade, increase employment and production – the 'employment' motif providing a nice proto-Keynesian touch. Law stressed, in opposition to the scholastic hard-money tradition, that money is a mere government creation, that it has no intrinsic value as a metal. Its only function is to be a medium of exchange, and not any store of value for the future.

Even more than William Potter, John Law assured the nation that the increased money supply and bank credit would not raise prices, especially under Law's own wise *aegis*. On the contrary, Law anticipated Irving Fisher and the monetarists by assuring that his paper money inflation would lead to 'stability of value', presumably stability of the price of labour, or the purchasing power of money.

Law also anticipated Adam Smith in the latter part of the eighteenth century in his fallacious justification for fractional-reserve banking that it would provide a costless 'highway in the air' – furnishing a money supply without spending resources on the mining of gold or silver. In the same way, of course, *any* expenditure of resource can be considered a 'waste' if we supply our own assumptions that are not held by people on the free market. Thus, as Professor Walter Block has pointed out, *if there were no crime*, all expenditure on locks, fences, guards, alarm systems, etc. could be denounced

as 'wasted resources' by external observers criticizing these expenditures. Similarly, if there were no such thing as governmental inflation, market expenditure on gold or silver could be considered 'wasteful' by observers.

If domestic price rises constitute the Achilles heel of monetary inflation, another worry has been the outflow of gold and silver from the country, in short, an 'unfavourable balance of trade' or of 'payment'. But John Law dismissed this problem too. On the contrary, he declared that an increase in the money supply would expand employment and output and 'therefore' increase exports, thus causing a *favourable* balance of payment, with gold and silver flowing into the country. Note that there is no analysis of *why* an increase in the money supply should increase output or employment, let alone drag exports along with it in this seemingly universal expansion.

Interestingly enough, one of Law's talking points about the need for more money was, as in the case of low interest, based on a striking misinterpretation of the reasons for the prosperity of the Dutch, whom all other nations envied in the seventeenth century. We have seen that everyone saw that the Dutch had low interest rates, leading English mercantilists to put the cart before the horse and attribute Dutch prosperity to low interest rates, instead of realizing that high savings and higher standards of living had brought about these low interest rates. Hence the mercantilists suggested that England force the maximum usury rate still lower.

Similarly, John Law saw that prosperous Holland enjoyed a plenty of metallic money; he attributed the prosperity to the abundance of money, and proposed to supply paper money instead. Again, he overlooked the point that it was Dutch property and high production and export that brought a plenitude of coin into the country. The export surplus and abundant coin was a reflection of Dutch prosperity, not its cause.²⁸

Not that John Law neglected the low interest argument for Dutch prosperity. But instead of direct usury laws, Law proposed to arrive at low interest rates in what would become the standard inflationist manner: expanding bank credit and bank money and thereby pushing down the rate of interest. Indeed, Law worked out a proto-Keynesian mechanism: increasing the quantity of money would lower interest rates, thereby expanding investment and capital accumulation and assuring general prosperity.

To Law, as to Potter before him and Keynes after him, the main enemy of his scheme was the menace of 'hoarding', a practice which would defeat the purpose of greater spending; instead, lower spending would diminish trade and create unemployment. As in the case of the late nineteenth century German money crank Silvio Gesell, Law proposed a statute that would prohibit the hoarding of money.²⁹

It took John Law another decade to find a ruler of a country gullible enough to fall for his scheme. Law found his 'mark' in the regent of France, a

country that had been thrown into confusion and turmoil upon the death of its seemingly eternal ruler, Louis XIV, in 1715. The regent, the duke of Orleans, set Law up as head of the Banque Générale in 1716, a central bank with a grant of the monopoly of the issue of bank notes in France. Soon the banque became the Banque Royale. Originally, banque notes were receivable in French taxes and were redeemable in silver; soon, however, silver redeemability was ended. Quickly, by 1717, John Law had all monetary and financial power in the realm placed into his hands. To his old scheme he added the financing of the massive government debt. He was made the head of the new Mississippi Company, as well as director-general of French finances; the notes of the Mississippi Company were allegedly 'backed' by the vast, undeveloped land which the French government owned in the Louisiana territory in North America. Law's bank created the notorious hyperinflationary 'Mississippi bubble'; notes, bank credit, prices and monetary values skyrocketed from 1717 to 1720. One aristocratic observer in Paris noted that for the first time the world 'millionaire' had become prevalent, as suddenly many people seemed to possess millions. Finally, in 1720, the bubble collapsed, Law ended a pauper heavily in debt, and he was forced once again to flee the country. As before, he roamed Europe, making a precarious living as a gambler, and trying to find another country that would adopt his scheme. He died in 1729, in Naples, trying to persuade the Neapolitan government to make him its inflationary central banker.³⁰

The cataclysm of John Law's experiment and his Mississippi bubble provided a warning lesson to all reflective writers and theorists on money throughout the eighteenth century. As we shall see below, hard-money doctrines prevailed easily throughout the century, from Law's former partner and outwitter Richard Cantillon down to the founding fathers of the American Republic. But there were some who refused to learn any lessons from the Law failure, and whose outlook was heavily influenced by John Law.³¹

Perhaps the most prominent of the post-Law inflationists in the eighteenth century was the eminent Anglo-Irish idealist philosopher, Bishop George Berkeley (1685–1753). Berkeley studied at Trinity College, Dublin, the intellectual centre of the Anglo-Irish Establishment, and his great philosophical works were all written in his 20s, while he was a fellow at Trinity. Berkeley then spent several years in the late 1720s vainly trying to establish a Christian college in Newport, Rhode Island. After that, Berkeley was appointed dean of Derry and then bishop of Cloyne.

Berkeley's major pronouncements on economic questions came in his pamphlet, *The Querist* (1735–37), published in three instalments. *The Querist* was highly influential, ten editions being published in Berkeley's lifetime. It was written solely as a series of 900 loaded questions, by which Berkeley hoped to influence public opinion through sheer rhetoric without having to

engage in reasoning. Berkeley's monetary views were heavily influenced by John Law. A typical example of one of Berkeley's loaded queries is 'whether the public is not more benefited by a shilling that circulates than a pound that lies dead?' Money, for Berkeley, was a mere ticket, and the centrepiece of *The Querist* was the advocacy of a Law-type central bank that would expand money and credit, lower interest rates (as Berkeley put it, 'put an end to usury'), and expand employment and prosperity.

Berkeley was shrewd enough to recognize that he had to answer objections based on John Law's egregious flop, and so he hastened to put some distance between his own schemes and the 'madness of France'. Like Law before him, Berkeley promised that *his* proposed bank notes would only be injected into the economy 'by slow degrees', and that he or his surrogates would take pains to keep the expansion of bank credit 'proportional' to the 'multiplication of trade and business'. In that way, prices would supposedly not rise. But of course Berkeley embodied the usual inflationist failure to see that 'the multiplication of trade and business' *in money terms* would precisely be the result of the monetary inflation and the consequent inflation of all prices and monetary values. (Berkeley's manipulative query on this theme is: 'Whether therefore bank bills should at any time be multiplied, but as trade and business were also multiplied?')

11.6 The hard-money response

The bulk of the eighteenth century response to the doctrines and failures of John Law, however, was understandably to return to and redouble devotion to the original continental tradition of hard money, a tradition now challenged by the new institutions of central banking and fractional-reserve banking. One of the earliest and most brilliant responses, which cannot be limited to the term 'hard money', was that of Law's former partner and sceptic in the Mississippi bubble, Richard Cantillon, who virtually founded modern economics in his remarkable *Essay* written about 1730. (On Cantillon, see Chapter 12.)

The most immediate hard-money reaction to Law in England was also one of the most remarkable. Isaac Gervaise (d. 1739) was born in Paris of a French Protestant father who owned a firm manufacturing and trading in silk. Gervaise senior moved to London, where his son Isaac was employed in the family firm. In 1720, Gervaise published a brief but extraordinary pamphlet of less than 30 pages, *The System or Theory of the Trade of the World*.³² In the course of attacking Law's doctrine of bank credit and monetary expansion, Gervaise arrived, before Cantillon and Hume, at the process towards international monetary equilibrium, or the specie-flow-price 'mechanism'. Without artificial bank credit expansion, Gervaise pointed out, the supply of money in each country would tend to be proportionate to its production or

volume of trade. Each nation's consumption and production, and its imports and exports, would tend to be in balance. If this equilibrium should be disturbed, and, for example, 'excessive' gold or silver flow into a particular country, then this excess would be spent on imports, the balance of trade would tilt and imports exceed exports, and this excess would have to be paid for by an outflow of specie. This outflow, in turn, would reduce the excess of money and return the country to a monetary and foreign trade balance.

But, Gervaise charged, schemes such as John Law's upset this balance: bank credit, serving as substitute money, artificially and unnaturally increases the money supply, expanding consumption including imports, raising domestic prices and lowering exports, so that the increased bank credit will cause an outflow of specie. The artificial credit can bring no lasting gain. There is also a strong hint in Gervaise that the credit expansion will only manage to divert investment and production from those 'natural' fields serving consumers efficiently into those areas that will prove to be wasteful and uneconomic.³³

Gervaise's analysis of the effects of monetary expansion was also significant in being more akin to Cantillon, by stressing the expansion of money inducing people to spend more, than to Hume, who confined his analysis to the increased money supply causing rising prices – neglecting the outflow of specie caused by greater monetary spending, on imports as well as on domestic products.³⁴

From his analysis of natural law, trade, self-equilibration on the market and their disruptions by government, Isaac Gervaise proceeded to a strong recommendation of all-out free trade, free of any distortions or restrictions by government. Gervaise's uncompromising free trade conclusion was all the more remarkable because his own firm enjoyed monopoly privileges conferred on it by the English Parliament. But Gervaise courageously concluded that 'trade is never in a better condition, than when it's natural and free; and forcing it either by laws, or taxes being always dangerous; because though the intended benefit or advantage be perceived, it is difficult to perceive its contrecoup; which ever is at least in full proportion to the benefit'. Here Gervaise anticipated the keen insights of the nineteenth century French *laissez-faire* economist Frédéric Bastiat, who stressed that government intervention stemmed from the fact that the benefits of subsidies or privileges are often direct and immediate, whereas the greater unfortunate consequences are more remote and indirect. The former are 'seen' whereas the latter are 'unseen', and therefore the seeming benefits get all the attention. Gervaise concluded with a plea for freedom and natural law that would anticipate Turgot and other French *laissez-faire* thinkers of his century: 'Man naturally seeks, and finds, the most easy and natural means of attaining his ends, and cannot be diverted from those means, but by force, and against his will'.³⁵

Isaac Gervaise wrote no more on economic questions, but he did become a distinguished Anglican clergyman, which makes it all the more puzzling that his exceptional and innovating pamphlet exerted no influence whatever on English opinion. It was lost to the world until resurrected by historians in the twentieth century.

Another hard-money advocate who developed a theory of international monetary equilibrium was a timber merchant of Dutch extraction, Jacob Vanderlint (d. 1740), in his tract, *Money Answers All Things* (1734). Despite the title, Vanderlint's theme was that money is distributed properly and optimally on the free market. There is a tendency on the market for all nations' prices to be equal, and if one country should acquire more money, its higher price level would soon draw the money out of the country until prices are back in equilibrium. It doesn't matter, then, how much specie a nation may have, since prices would adjust. Thus, if a nation had little specie, its prices would be low and it would outcompete other nations, with gold and silver consequently flowing into the country. Indeed, so concerned was Vanderlint to keep prices low and competitive with other nations that he unknowingly replicated Cantillon's advice for rulers or other worthies to hoard their gold and silver so as to keep national prices low.³⁶

Vanderlint consistently carried over his hard-money analysis to the problem of expanding bank credit. Bank credit, Vanderlint pointed out, expands the money supply, and so, 'as the Price of things will hence be rais'd, it must and will make us the Market, to receive the Commodities of every Country whose Prices of Things are cheaper than ours ...[and hence] turn the Balance of Trade against us...'.³⁷

Vanderlint, like Gervaise, was thus a severe critic of inflation and fractional-reserve banking, as well as an analyst of the international harmonies of money, prices and the balance of trade on the free market. Like Gervaise, Vanderlint was also an advocate of unrestricted free trade, concluding 'In general, there should never be any restraints of any kind on trade, nor any greater taxes than are unavoidable'. Attempts to fix the price of gold and silver or to prohibit the export of coin are also futile: 'it's no less absurd for the government to fix the price they will give for gold and silver brought to be coined, than it would be to make a law to fix and ascertain the prices of every other commodity'. Vanderlint also deplored the rise, during the eighteenth century, of the war-making state, and of the high taxes and public debts which war brings in its wake. Indeed, for Vanderlint, free trade and free markets, and international peace, go hand in hand, while war is the enemy of freedom. War, warned Vanderlint, is 'one of the greatest calamities to which mankind can be subjected; the end of which none can well foresee, and the burdens of which (i.e. public debts and taxes) are seldom discharged in one generation...'. Eloquently, Vanderlint concluded that 'it's monstrous to imag-

ine, the author of this world hath constituted things so as to make it any ways necessary for mankind to murder and destroy each other'.³⁸

The culminating hard-money theorist in eighteenth century England was Joseph Harris (1702–64), who published a massive two-volume *Essays Upon Money and Coins* (1757–58). Harris began life as a country blacksmith, but then went to London, where he became a prominent writer on navigation, mathematics and astronomy. He was an employee at the Mint, and was made assay master of the Mint in 1748.

Harris was a hard-money critic of debasement or fractional-reserve banking and bank credit expansion. He was an explicit follower of Cantillon's analysis of money flows. Thus he saw, with Cantillon, that international monetary matters tended towards an equilibrium, but he also saw, with Cantillon, that inflows or increases of the money supply did not simply raise prices; they also necessarily affected the distribution of money, benefiting some people at the expense of others. Hence the flows of money, though self-adjusting, would cause economic harm, especially during the adjustment process. As Hutchison sums up Harris's view: 'Inflows of money enrich some at the expense of others, and such processes may for a time cause distress'. Sudden fluctuations of money, therefore, whether flowing in or out, 'would be pernicious while it lasted and for some time afterwards'.³⁹

As a result of his analysis, Harris was determinedly opposed to any alteration whatever of the monometallic monetary standard of a country (Harris favoured silver over gold as being more stable). As Harris emphatically warned: 'The established standard of money should not be violated or altered, under any pretence whatsoever'.⁴⁰

11.7 *Laissez-faire* by mid-century: Tucker and Townshend

If a hard-money stance had been pretty well established in English thought by the middle of the eighteenth century, so too had a corresponding if not fully consistent commitment to free markets and freedom of international trade. The Vanderlint-Cantillon-Harris analysis of international trade and money flows lent powerful arguments in the direction of freedom of trade. And, as we shall see in later chapters, the Scottish views of Carmichael, Hutchison and Hume were leading in the same direction in the northern part of Great Britain.

Josiah Tucker (1713–99), Anglican clergyman and dean of Gloucester from 1758 on,⁴¹ was a celebrated eighteenth century writer on religion, politics and economics who was extravagantly hailed in his day as a free trader by such men as the great *laissez-faire* statesman and economist A.R.J. Turgot, who translated two of Tucker's works into French.⁴² But Tucker's devotion to freedom of trade was only moderate, and marred by inconsistencies and contradictions. Thus Tucker favoured absolute prohibition on the