

What Is Stagnation?

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INTRODUCTION

For a majority of mainstream and radical economists, the answer to the question "What is Stagnation"? is fairly simple and straightforward and devoid of any real theoretical significance in and of itself. Either it is seen as a period of longer and deeper than average recessions, or it stands for a long-cycle downturn, which will be followed more or less automatically, after some 25 years duration, by a long-cycle upturn. However, in the case of most of those thinkers on the left who continue to emphasize the primacy of demand-side constraints on the accumulation process in "the present as history," the search for an answer to the above question is nothing less than an attempt to address the central contradiction of the mature monopoly capitalist system.

The purpose of this article is to uncover the complex historical logic through which the phenomenon of stagnation is manifested in modern capitalism, as explained in the work of such radical demand-side theorists as Michal Kalecki, Josef Steindl, Paul Baran, Paul Sweezy and Harry Magdoff. Beginning with the reasons why a condition of stagnation (the main traits of which are widening underemployment, stop-and-start investment and slow growth) has come to represent the normal trend-line of the modern economy around which the recurrent fluctuations of the business cycle occur, the analysis will then shift to a consideration of the various self-limiting forces that sparked the expansionary wave of the 1960s; and how a waning of these forces, or of their positive effects, has led in the 1970s and 1980s to a resurfacing of stagnation and a doubling-over of economic contradictions. The seriousness of the multi-layered crisis that emerges from such a conception of political economic evolution, will then be contrasted, in the conclusion, to the relative complacency engendered by the dominant supply-side strategy for the renewal of American capitalism.

THE STAGNATION PROBLEM

What might be thought of as constituting the logical starting point for all work on the problem of economic stagnation is a recognition of the fact that there is nothing natural or automatic about the fulfillment of a long-run rate of growth that guarantees full capacity production under advanced capitalism. As the conservative economist Joseph Schumpeter wrote in *Capitalism, Socialism and Democracy* (1942): "The power of the business process itself to produce that result [full employment] has, however, been called into question by many economists. . . . We will refer to them by a term that has gained some currency, Stagnationists" (Schumpeter 1947:329).

In utilizing this label for all of those that had lost faith in the ability of "the business process itself" to generate full employment, Schumpeter had in mind such notable theorists as John Maynard Keynes and Alvin Hansen, Keynes's leading interpreter in the

United States (Schumpeter 1951:283–284). Faced with the Great Depression of the 1930s, Hansen's first reaction, like that of most liberal economists during the first eight years of stagnation (prior to 1937), was to trace the problem to such alleged supply-side causes as the high, inflexible wage rates that were thought to have been institutionalized in the economy during the New Era of the 1920s, and which supposedly prevented a smooth adjustment once the downturn had set in (Stoneman 1979:44–50; Foster 1983). But this initial interpretation, was to be summarily discarded in Hansen's case, as in numerous others, when the United States was suddenly struck by the sharp downturn of 1937, which occurred well before the economy had fully recovered from the conditions of depression, and which led to a rapid rise in unemployment from 14 percent in 1937 to 19 percent in 1938. Confronted with this failure of the economy to achieve a full recovery, and relying on the analytical framework introduced by Keynes, Hansen advanced, in such works as *Full Recovery or Stagnation?* (1938), the idea that the capital-rich society of the twentieth century was afflicted by growing difficulties in absorbing potential net savings. Not only was there a "rising propensity to save" among the wealthier elements; but it was also true that such previous inducements to "spontaneous" (as opposed to income-induced) investment as a rapid rate of population growth, a seemingly endless open frontier, and technological innovations of a heavily capital-absorbing character, all of which had underwritten nineteenth century industrialization in the United States, had either come to an end or could be expected to be of diminishing influence as stimulating forces in the foreseeable future.¹ All of which suggested that the economy was likely to move "sidewise" rather than forward if left entirely to its own devices (Hansen 1955:549).

In opposition to this perspective, Schumpeter, Hansen's greatest antagonist in the debate of the late 1930s, attributed stagnation — to the extent that it was something more than a "normal" downturn in the presumed 50 year Kondratieff cycle — not to any failure of capitalism's supposed natural tendency to generate full employment, but rather to the interference of anti-business interests, notably Roosevelt's New Deal (Schumpeter 1939:1011–1050; Magdoff and Sweezy 1987:31). It was only the intrusions of the state within the economic domain which, according to this view, kept a full recovery from taking place "of itself" (Schumpeter 1934:20).

The appearance of the Second World War in Europe and Asia and the rapid rise in United States war production, however, soon transformed the nature of the economic debate, with GNP rising by 70 percent in just six years in response to war-generated demand; and in the prosperity that greeted the United States in the aftermath of the war stagnation was for a time forgotten (Heilbroner 1980:160). It was not until the appearance of what the orthodox economist Paul Samuelson was to call "the Eisenhower stagnation" of 1954–60, following the Korean War, that the issue was temporarily raised again in a major way (Walker and Vatter 1986:325). Pointing then to the statement by Schumpeter quoted above, Hansen was to remark: "I fully accept Schumpeter's definition of stagnationists in *Capitalism, Socialism and Democracy*. . . I like this definition because it stresses in a precise way the essential issue which is as follows: Can the economy *automatically* produce full employment? Can *automatic* forces alone, under modern conditions, be relied upon to the degree that was possible in the expansionist nineteenth century"? (Hansen 1955:557). The answer was obviously "No"! "We can at no time facilely expect," Hansen had written in *Full Recovery or Stagnation?*,

“that a recovery will just automatically complete itself. There is never any assurance that business will surely carry on to a full measure of prosperity. For ‘carrying on’ means that new investment shall be developed” (Hansen 1938:283).

At the root of the problem was the fact that in an advanced capitalist economy, characterized by a high savings potential and abundant productive capacity, investment tended to be cut off (as far as the normal income generation process was concerned) well before a full employment level of production was reached. For in the contradictory world of capitalism investment produces additional demand in the short-run but new productive capacity after just a few years. And under conditions of a widening underemployment gap (or overall slack demand) the danger to capital of finding itself with too much excess capacity often has the effect of shutting off potential net investment before it can actually be generated, creating a vicious circle of stagnation instead of the virtuous circle of rapid growth predicted in most textbooks. As the Marxist economist Michal Kalecki—often credited with having discovered the essentials of Keynes’s *General Theory* before Keynes himself, in essays published in Poland—wrote in the closing sentences of his *Essays in the Theory of Economic Fluctuations* (1939), “The tragedy of investment is that it causes crisis because it is useful. Doubtless many people will consider this theory paradoxical. But it is not the theory which is paradoxical, but its subject—the capitalist economy” (Kalecki 1939:149).

Indeed, what was largely “paradoxical” from a liberal economic standpoint—which, insofar as it rested on neoclassical foundations, had little room for concepts of class or monopoly within its core analytical framework—could be much more easily comprehended by a Marxist theorist like Kalecki, who took as his starting point the class composition of both output and demand. Relying on the simple model of the capitalist economy embedded in Marx’s reproduction schemes, Kalecki emphasized that the demand for capital goods is equal to reinvested gross profits, while the demand for wage goods (the great bulk of the consumption goods sector) equals total wages (workers’ savings being considered so marginal as to be safely disregarded in the analysis).² Rapid accumulation requires a much faster growth in the former than in the latter, but this eventually generates inordinate productive capacity in relation to effective demand, as the gap between the capacity to produce and the capacity to consume widens—although the degree to which this contradiction actually surfaces depends on the relative autonomy of investment from final consumption characteristic of any particular phase of capitalist development (Kalecki 1968).

To elaborate the point somewhat differently, any continual plowing back of profits into new investment would mean that the means of production (Department 1 in the Marxian reproduction schemes, the demand for which comes largely out of gross profits) would expand very much faster than articles of consumption (or Department 2, the demand for which comes mainly from wages). This, in fact, is the basic pattern of every accumulation boom. But it is a self-annihilating process. Sooner or later (depending on historical conditions determining the degree to which the investment process is self-sustaining) the means of production are built up to such a prodigious extent that a social disproportionality develops between the capacity to produce and the corresponding demand. A crisis of overaccumulation rooted in overexploitation then occurs.

Under these circumstances, in which investment (or new capital formation) is inhibited by capital stock already in existence, capitalist expansion becomes increasingly

dependent on what Hansen termed “spontaneous” or non-income induced sources of demand. Reversing the traditional assumption of rapid growth under capitalism, Kalecki contended—in a critique of the early Russian Marxist Michael Tugan-Baranovski, who had denied the existence of a problem of final demand — “that an expanded reproduction will take place if there exist factors that simply do not permit the system to remain in the state of simple reproduction [or stationary state]. . .” (Kalecki 1967:154). Or as he explained in his *Theory of Economic Dynamics*: “Our analysis shows. . . that long-run development is not inherent in the capitalist economy. Thus specific ‘development factors’ are required to sustain a long-run upward movement” (Kalecki 1965:161).

Hence, in the absence of “external” factors such as a clustering of technological innovations of a capital absorbing character, or massive government spending on a wartime scale, a well-developed capitalist economy was likely to sink into a pattern of slow growth and rising unemployment and excess capacity, with capital formation fluctuating around the level of zero net investment. Moreover, as a consequence of the steady rise in what Kalecki termed “the degree of monopoly” (reflected in widening profit margins and growing concentration and centralization of capital) “the retardation in the increase in capital and output” would tend to become more severe (Kalecki 1965:161).³

The argument with respect to the effect of growing monopolization on the accumulation process was to be carried forward by Josef Steindl, one of Kalecki’s colleagues at the Oxford Institute of Statistics during the Second World War, whose major work on the subject was published in 1952 under the title *Maturity and Stagnation in American Capitalism*. For Steindl: “The decrease in the rate of growth of capital in the mature [monopolistic] economy and the concomitant decrease in the rate of profit tend to bring about a decline in the share of profits in incomes, and a decline in the share of capitalists’ savings in profits” (Steindl 1976:1945). To account for this situation, the traditional Marxian conception of realization crisis (or a crisis associated with insufficient effective demand) needed a new interpretation, focusing in particular on the significance of excess capacity. Describing the essence of this new approach, first in Kaleckian and then in classical Marxist terms, he wrote:

If we think of it, the tendency for the capitalists’ share of the product to increase does, after all, exist *potentially*. It is a consequence of the growth of oligopoly. The expression of this tendency can only be an *increase in gross profit margins*. That means that the actual share of *net* incomes of capitalists need not increase at all. The increased gross margins may be compensated by a reduced degree of utilization so that there is not a shift of actual income from wages to profits, but a shift of potential income of workers to wastage in excess capacity.

This could be very easily represented in Marxist terms. We should have to say that as a consequence of the rise of oligopoly, the rate of *surplus value produced* tends to increase: the rate of exploitation rises. But as Marx explained, producing surplus value does not necessarily mean realising it, and the realisation depends on the existence of a sufficient market. We should now say that surplus value can be realised only to the extent to which there is a corresponding amount of investment and capitalists’ consumption. If this amount does not increase, then the rise in the rate of surplus value *produced* will not lead to any increase in surplus value *realised*, but only to excess capacity” (Steindl 1976:245).

As Steindl went on to remark, the “gross profit margin,” or the mark-up on cost price in Kaleckian theory, might be “tentatively” identified with “surplus value produced”

(Steindl 1976:245-246). The theory then states that although the rate of surplus value, and the value rate of profit at the level of production, are increasing, net realized profit rates may actually be stagnant (or even in decline, along with investment), as reflected in rising amounts of excess capacity. Moreover, the logic of the argument is such that it is precisely because monopoly capital seeks to maintain its high gross margins (and excessive rates of surplus value), in the face of downturns in demand, by reducing its utilization rate rather than its prices, that a chronic condition of secular stagnation emerges, since the degree of capacity utilization is itself the main determinant of investment demand. At one and the same time monopoly capital promotes excess capacity in order to maintain its gross profit margins (rate of surplus value), and demonstrates an enormous "fear" of additional, unplanned excess capacity—causing it to cut back on the level of investment whenever the operating rate falls below a certain point.⁴ With the resulting stagnation of normal investment demand, a widening under-employment gap becomes a characteristic feature of the modern economy.

The radical implications of Steindl's book, together with the fact that it appeared in the middle of the Korean War boom, virtually guaranteed that his work would be ignored by mainstream economists the vast majority of whom — although momentarily dismayed by the cyclical downturn of the Eisenhower years — were eager to stand at the forefront of what the rebellious sociologist C. Wright Mills was to dub, "The Great American Celebration."⁵ "The ghost of Thomas Carlyle," Paul Samuelson wrote in 1964, "should be relieved to know that economics, after all, has not been a dismal science. It has been the cheerful, but impatient science of growth" (Samuelson 1964:730).

It was in this overall climate of Cold War elation that Paul Baran and Paul Sweezy, inspired by the contributions of Kalecki and Steindl (as well as Marx, Veblen, Keynes and Hansen), began to collaborate on a study — published in 1966, two years after Baran's death, under the title *Monopoly Capital* — designed to demonstrate that stagnation was still the main specter haunting the United States economy. According to this theory, Marx's "law of the tendency of the rate of profit to fall" associated with accumulation in the nineteenth century era of free competition, had been replaced, with the emergence of the more restrictive competitive environment of monopoly capitalism at the beginning of the twentieth century, by a "law of the tendency of the surplus to rise" (defining surplus as "the gap, at any given level of production, between output and socially necessary costs of production").⁶ Under these circumstances, the critical economic problem became one of surplus absorption. "In general," the authors pointed out, "surplus can be absorbed in three ways: (1) it can be consumed, (2) it can be invested, and (3) it can be wasted" (Baran and Sweezy 1966:79). Capitalist consumption, however, represented a declining proportion of capitalist demand as income grew; which meant that "the investment-seeking share of surplus" tended to rise. But investment itself was hindered by the fact that it created new productive capacity, which could not be expanded for long periods of time without a proportional expansion in final, wage-based demand. And although there was always some possibility of new "epoch-making innovations" arising that could help propel investment forward, all such innovations — resembling the steam engine, the railroad and the automobile in their overall effect — were few and far between. Nor was a vigorous public works campaign (that is a massive program of state employment in the areas of productive consumption and investment) likely to arise to alleviate the problem as long as the logic of the system held sway. Since to think otherwise was to deny the modalities of political power in an advanced capitalist

society, where vested interests within the ruling class tended to block any state activities that competed with or diminished the role of the market. Hence, Baran and Sweezy concluded that the system had a powerful tendency to stagnation, largely counteracted thus far through the promotion of economic waste by means of "the sales effort" (including its penetration into the production process) and military expenditures, and through the expansion of the financial sector. All such "protective reactions of the system" were, however, subject to a kind of law of diminishing returns, and could be expected to lead to a doubling-over of contradictions in the not too distant future (Baran and Sweezy 1966:72, 79; Sweezy 1972:42; Magdoff and Sweezy 1981:182; Foster 1986: 221–224).

The changes wrought in the nature and logic of the system, according to Baran and Sweezy's analysis, occurred at the secondary level of the competition of capitals and the distribution of surplus product, and did not alter the more fundamental tendencies within the system uncovered by Marx, connected with the production of surplus value and the growing predominance of its relative form (that is the shift to ever more intensive forms of production). In fact, the growth of Taylorism or scientific management in the early decades of the twentieth century — the theoretical basis of which, as Harry Braverman demonstrated in *Labor and Monopoly Capital* (1974), was already provided by Marx's analysis of the labor process in Volume I of *Capital* — was viewed, from the standpoint of the overall monopoly capital argument, as the key element in a complex historical transition. Indeed, it was the shift to ever greater cost-cutting at the point of production, together with the effectual banning of price competition in concentrated industries, which both raised the rate of surplus value and "skewed its distribution toward the larger units of capital" — thereby generating the chronic pattern of realization crisis (or widening effective demand gap) that has characterized the modern era (Sweezy 1981:63–65, 68–70, 1987:15–16; Foster 1984a:65–67).

THE REGIME OF CAPITAL

The distinctive characteristics of the foregoing perspective can be brought out more clearly by taking a short detour and making a number of comparisons with recent fashionable trends emanating from French political economy. Like radical stagnation theorists, writers in the new French "regulation school" derive many of their insights from the "realization crisis" strand of Marxian political economy; and therefore emphasize the constraints placed on the selling of commodities, and on the realization of the surplus value (or profits) embodied in these commodities, due to the limits of effective demand. The central categories of this school of thought find their clearest expression in the work of Alain Lipietz, who has written in his book *Mirages and Miracles* (1987) that:

One of the great contradictions of this mode of production relates to its 'commodity' side. Although capitalists can organize production in their factories down to the last detail and can, given their habits and their calculations, establish there an 'iron law of proportionality,' in their dealings with the rest of society they behave like any other gambler: their products may or may not find a buyer at a price which makes production profitable (this is the famous realization problem). Yet it works . . . except, of course, when there is a crisis. In order to understand how it works we have to produce new concepts. A number of French research workers have proposed the concepts of '*regime of accumulation*' and '*mode of regulation*' (Lipietz 1987:14).

The first of these concepts is nothing other than Marx's reproduction schemes (the input-output or departmental matrix established by the class composition of social output and demand) placed in a very long-run institutional context. Or as Lipietz himself explains it: "A regime of accumulation can be defined in terms of a *schema of reproduction* which describes how social labor is allocated over a period of time and how products are distributed between different departments of production [that is, the capital goods department and the consumption goods department] over the same period" (Lipietz 1987:32–33).

In terms of historical stages, the regulation school contends that two broad "regimes of accumulation" can be distinguished, corresponding generally to the traditional Marxist stages of competitive and monopoly capitalism, but defined in terms of the predominance in the first of extensive reproduction geared to the building-up of the means of production, and in the second of intensive reproduction dependent on the growth of mass consumption (Lipietz 1987:33).

Moreover, to understand how a particular regime of accumulation is actually "realized" in any particular phase of history it is necessary, according to this perspective, to introduce the secondary and more concrete category of a "mode of regulation," consisting of "institutional forms, procedures and habits." The mode of regulation that "reproduced" the extensive regime of the nineteenth century is labeled "competitive regulation," and "was characterized . . . by price movements that were highly responsive to demand." In contrast, the mode of regulation that was eventually to uphold the intensive regime of accumulation — once the Great Depression made it clear that competitive regulation was no longer adequate for the realization of the system at this stage — is referred to by Lipietz as "monopolistic regulation." This "new '*monopolistic*' mode of regulation," he contends, "incorporated both productivity rises and the corresponding rise in popular consumption into the determination of wages and nominal prices *a priori*. . . . [T]his regime is now known as 'Fordism' " (Lipietz 1987:34–36). The present crisis is then a crisis of "Fordism," or of a mode of regulation that relies on high wages and mass consumption, underwritten by high productivity.

Despite the occasional insights that it provides, this approach, when viewed from the quite different perspective of stagnation theory, has at least one very serious and perhaps fatal shortcoming. What appears to be missing is any concrete consideration of the problem of investment or capital accumulation as such. Indeed, the entire emphasis of the theory, insofar as it focuses on the so-called "Fordist" dynamic, is rather on consumption; and instead of tracing the problem of expanded reproduction to the tendency of investment to stagnate (due to overexploitation, overcapacity, and the lack of external stimuli like new capital-absorbing technologies and markets), the failures of the system in the present stage are thought to be reducible to the limits of "overconsumption" (Davis 1986:206–221). But as Kalecki said: "The workers spend what they get; the capitalists get what they spend" (Robinson 1966:ix). Thus, the realization problem has to be seen mainly in relation to problems associated with investment out of profits rather than wage-based consumption. Without a clear understanding of the historical problem of investment — which in the monopoly capitalist era cannot simply be seen as a reflex of movements in the profit rate — what remains is a largely impressionistic account of the evolution of the system that dresses up, but does not otherwise significantly alter, the ruling class' own interpretation. Nothing therefore is easier for Lipietz than

simply to infer, in conformity with the dominant supply-side ideology, that, “the present crisis in intensive accumulation is a crisis in *profitability*, whereas the crisis of the 1930s was a crisis of overproduction” (Lipietz 1987:43). Or as he has stated elsewhere: “I agree with Weisskopf, Bowles and Gordon [1985] that the present crisis occurred because the capitalist class was ‘too weak’ rather than ‘too strong’ ” (Lipietz 1986:13).⁷

From the standpoint of stagnation theory, such an assessment is of course wrong. Thus, among the numerous conceptual errors associated with this kind of supply-side interpretation of the present crisis (shared by the regulation school and profit squeeze theorists alike), the following are particularly notable: (1) the confusion of *ex post* wage and profit shares in national income accounts with the *ex ante* rate of exploitation at the level of production; (2) the pretense that aggregate productivity statistics for the whole economy are concrete indicators of conditions on the factory floor, without regard to such factors as the utilization of capital stock; and (3) the failure to adopt a theoretical framework that distinguishes between productive and unproductive labor (and between profits and surplus value) (see Foster 1984a:68–70; Szymanski 1984).

Still, all of the foregoing is less important than the fact that this type of assessment simply misses the point. For the secular tendencies of advanced monopoly capitalism in the United States cannot be concretely accounted for by a purported “overconsumption” and underexploitation squeeze on profits — even when an ill-defined long cycle is brought in to bolster the argument — but only in terms of the long-run stagnation of investment resulting from the constant tendency of the system to produce a relative overaccumulation of capital. As long as the laws of motion of monopoly capitalism remain supreme, there will be a tendency to generate a larger “investment-seeking surplus” at a full employment level of output than the system can profitably absorb. Hence, there is no escaping the fact that the inner logic of capitalism promotes the kind of disproportionalities associated with a capitalist class that is “too strong” and a working class that is “too weak.” “The very necessity of *general political action*,” Marx once observed, “affords the proof that in its merely economic action capital is the stronger side” (Marx 1935:59).

THE END OF PROSPERITY

The reasons for the extraordinary rise and fall of the economic prosperity that characterized the immediate post-Second World War period, cannot therefore be found in any simple phenomenon of “Fordist overconsumption” (or Keynesian “overemployment” and “underexploitation”). Rather, it is necessary to take a closer look at the historical conditions affecting long-term capital formation, in a system where the ruling class, in its purely economic action, is ultimately the stronger side.

The factors or combination of factors that in the course of capitalist history have usually been associated with long waves of sustained growth have generally consisted of: (1) the generation and adoption of epoch-making innovations that induce heavy capital investment, new forms of infrastructural development, the spread of population into new locations, etc.; (2) expansion of military spending in preparation for war; (3) the rebuilding of the industrial base in the aftermath of war; (4) a period of relatively smooth expansion of the credit and debt structure (normally preceded by earlier debt-deflations — that is massive depreciation of financial assets); (5) the dominance of a single hegemonic power within the world capitalist economy; and (6) development of new markets in the periphery of the world economy (Magdoff 1982:3).

Such conditions allow for the absorption of surplus to a degree that is, in the longer run, unsustainable. Each of these factors came into play to some extent in the long wave expansion of the immediate post-Second World War era. The 1950s saw the second great wave in the automobilization of America, which has to be understood as including the building of the interstate highway system, as well as the expansion of the auto, glass, rubber and steel industries; the conditions of which were partly provided by the enormous growth of consumer liquidity that had accumulated during the war, allowing for a vast growth in the consumer credit system. Ever greedy for customers, the automobile industry became the model for a pattern of expansion based on a constantly augmented "sales effort," in which the costs of selling goods became inextricably connected with the costs of production. Other technologies originally generated by war demand such as the jet aircraft also created new markets for investment. The rebuilding of the war-torn economies of Europe and Japan, which received an enormous boost from the remilitarization of the United States economy in connection with the Korean War, as well as from the extension of the mass use of automobiles to these countries, boosted the overall expansion. The two regional wars fought by the United States in Korea and Indochina produced record peaks in the economy in those years, as well as the longest business cycle expansion (106 months) from February 1961 to December 1969 that the twentieth century United States economy has experienced. The same years also saw a steady building up of the financial sector of the economy (banks, other financial institutions, real estate and insurance), which rose as a percent of goods production from 21 percent in 1950 to 33 percent in 1970 and 40 percent in 1985 (Magdoff and Sweezy 1987: 23). The rise of the United States to a position of hegemony in the world capitalist economy was accompanied by a straddling of the globe by United States military bases, a flow of economic aid to Europe through the Marshall Plan, and the sending of aid subsequently to client states throughout the world. The trade and monetary regimes associated with the General Agreement of Tariffs and Trade (GATT), the International Monetary Fund (IMF) and the World Bank — all backed up by United States hegemony — resulted in a much freer circulation of capital around the globe, as well as the setting up of rules for disciplining Third World states. Multinational corporations — constituting increasingly important mechanisms of imperialism — soon girded the globe (Magdoff 1982:3-5).

What is important to understand is that all of these factors were either self-limiting in character, or could be expected to result in the doubling-over of economic contradictions in the not too distant future (or sometimes both). The wave of automobilization, as well as the demand associated with the spread of the commercial aircraft industry, had essentially petered out by the mid-1960s, entering a phase of simple reproduction. American ingenuity in building sales costs and other unproductive (or unreproductive) expenditures into the price of vehicles and other products, undoubtedly made United States companies more vulnerable over the long run to foreign competition. The rebuilding of the war-devastated economies in Europe and Japan was eventually completed, resulting in a slowing down in the growth rate of these countries. The use of American military power to combat revolutions around the globe came up against the reality of what Gabriel Kolko has called "the perpetual crisis of American foreign policy" and the inevitable defeat in Vietnam (Kolko 1984:348-398). Concentration of the economy on military output was to be of diminishing effectiveness in terms of its employment effects due to the high technology character of such spending; resulted in a prohibitive growth in the federal deficit; and increasingly appeared to carry long-term costs associated with the

structuring of output toward non-reproductive luxury goods (Baran and Sweezy 1966:213–217; Foster 1984b:339–345). The growth of the debt economy resulted in added fragility in an economy increasingly characterized by stagflation (stagnation plus inflation), credit crunches, rising interest rates, and a growing federal deficit. The revival of competitor nations in Europe and Japan, as well as the expansion of productive capacity in certain key Third World countries, undermined United States hegemony and weakened the world economy, as international surplus capacity emerged in industry after industry. The spread of multinational corporations resulted in a greater concentration of surplus in the core states and undermined employment in those states. The hypertrophy of the world financial structure — not unrelated to the spread of multinational banking — meanwhile created a global debt crisis that threatened to destabilize both core and periphery.

Some theorists, confronted with this decline in the secular growth trend of the advanced capitalist economies since the mid- or late-1960s, have argued, following Schumpeter and others, that it is nothing more than the down phase in a 50 year Kondratieff cycle, that will be automatically succeeded by a 25 year expansionary phase beginning “in about 1990” (Wallerstein 1982:40). Yet, while the existence of long waves in a general sense cannot be denied, the existence of long cycles, in the sense that they generate, like other business cycles, their own “forces of reversal” has never been demonstrated. More specifically, while long wave expansions are based on *self-limiting* factors that spur investment and allow it to overcome powerful tendencies toward stagnation *for a time*, there is nothing in the nature of a long wave downturn that will *automatically* generate an upturn in the secular trend. As Paul Sweezy has written: “It was the Second World War that brought the stagnation of the 1930s to an end. We still do not know what will bring the stagnation of the 1970s and 1980s to an end — or what kind of end it will be” (Magdoff and Sweezy 1987:37–38).

THE SCOURGE OF SUPPLY-SIDE THEORY

It is an all but settled maxim of the dominant economic policy makers today that the current weakness of the United States economy can be attributed to supply-side factors: mainly high wages, low labor productivity, and excessive state spending. The solution, which the Reagan Administration has religiously followed, is to break unions, increase unemployment, force down wages, cut back on state spending that benefits those at the bottom of society, and reform the tax system to redistribute income from the poor to the rich. The result has been continued stagnation, with unemployment averaging almost 7 percent and capacity utilization standing at about 79 percent in 1986, 4 years into the recovery phase of the business cycle.

The gap between prevailing economic wisdom and concrete reality is nowhere more apparent than at the point of production. One of the most frequently heard justifications for what Lord Nicholas Kaldor has called “the scourge” of monetarist and supply-side economics has to do with the alleged decline in productivity on the factory floor (Kaldor 1986:64–70). But as liberal economist Lester Thurow of the Massachusetts Institute of Technology points out:

If . . . one looks carefully at the .5 percent per year rate of growth of nonfarm business productivity between 1978 and 1985, one discovers some interesting facts. During those years American business firms reduced their blue-collar payrolls by 1.9 million workers, or 6

percent, while increasing the business G.N.P. by 18 percent [after correction for inflation]. If one produces 18 percent more while reducing inputs by 6 percent, one has achieved a 24 percent increase in productivity. Divide that number by seven years; the calculation shows that the blue-collar workers of America on the factory floor were generating a rate of growth of productivity in excess of 3 percent per year — world class (Thurow 1986:26).

Indeed, insofar as there is “a problem” in generating a high rate of productivity, it lies not at the point of production, but in the proliferation of unproductive employment (white collar positions devoted to management, sales and finance, and the growth of the service sector) and the rise of excess capacity itself (which depresses productivity as overhead costs rise as a proportion of total output). Such facts should warn one of the dangers of uncritically accepting the supply-side case despite its omnipresence in policy circles. They also suggest that the main contradictions of monopoly capitalism lie not on the cost or supply-side but in the utilization of potential surplus product.⁸ Indeed, the countervailing factors that in the past have helped to stabilize “the regime of accumulation” — factors like a growing “sales effort,” inflation, deficits, financial expansion, ever greater reliance on military spending, etc. — are increasingly associated with a doubling-over of economic contradictions and the emergence of a society that is more and more irrational, when judged in terms of either demand *or* supply (Wolff 1987).

In any case: “From the social point of view, the central problem is not cutting costs or raising productivity, but how and where to allocate resources in order to eliminate poverty and to improve the quality of life on the job and at home” (Magdoff and Sweezy 1981:177). Socialists need to struggle against the scourge of supply-side theory not because it is bad economics — which it undoubtedly is — but because it conflicts with basic social needs that can be met only in a transformed social order.

NOTES

1. It is worth noting in this connection that somewhere between 40 and 50 percent of all private capital formation in the United States in the last two decades of the nineteenth century may have been accounted for by the railroad alone (Baran and Sweezy 1966:221).

2. Aside from the fact that workers are often by necessity long-term dis-savers, Kalecki's assumption (based on Marx) that workers' savings are nonexistent, is more than reasonable in this context, since any marginal savings out of wages would only make the realization problem worse, while not otherwise altering the general case. For a portrayal of “the class composition of social output and demand” embodied in Marx's reproduction schemes, see the input-output table for simple reproduction provided in Foster (1984b:340–342).

3. The significance attributed to the increasing concentration and centralization of capital by such theorists as Kalecki, Josef Steindl, Paul Baran and Paul Sweezy, has been subjected to harsh criticism by numerous liberal and even some left-wing analysts. Thus in a recent critique of this perspective (directed in particular at the late Al Szymanski) Samuel Bowles, David Gordon and Thomas Weisskopf use data from Table 896 of the *Statistical Abstract of the United States 1982–83*, to argue that “one does not find much of an increase” in the percentage share of manufacturing assets owned by the 100 largest manufacturing firms between 1960, when the figure is 46.4 percent, and 1980, when it is 46.7 percent. However, what these authors do not tell their readers, is that the second line of the Table shows a *sizable increase* in the percentage share of manufacturing assets held by the 200 largest manufacturing firms from 56.3 percent in 1960 to 59.7 percent in 1980 (and 60 percent in 1981) (see Weisskopf, Bowles and Gordon 1985:268; Szymanski 1984).

4. "Studies have shown that capital spending plans accelerate when operating [capacity utilization] rates move significantly above the 80 percent level and decelerate when they dip below it" (*Business Week*, August 3, 1981:12). For data and analysis on capacity utilization and business investment in the United States economy from 1920 to 1975 see Foster (1984c).
5. The one mainstream theorist who stood as an exception to this general failure to acknowledge the importance of Steindl's book was Alvin Hansen. As he summarized the main thrust of Steindl's argument: "The trend toward oligopoly raised profit margins. This development tended to produce excess capacity. Excess capacity — a decline in the rate of utilization of capital stock — led to a falling off in the rate of growth of capital. This is the essence of stagnation as Steindl sees it" (Hansen 1955:550).
6. For works by theorists who give a central place to "the law of the tendency of the rate of profit to fall" even under the conditions of advanced capitalism, see the essays by David Laibman and Anwar Shaikh in this volume.
7. For the views of Samuel Bowles, David Gordon and Thomas Weisskopf see their essay in this volume.
8. Data compiled by Peter Bernstein (1983: 24) shows a significant upward drift in the capacity/capital stock ratio in manufacturing from 1948 to the mid-1970s, suggesting that a shift to capital-saving innovations (as Hansen once contended) is a major factor in the reemergence of stagnation in the 1970s and 1980s.

GENERAL BIBLIOGRAPHY

- Aaron, Henry et al. 1986. *Economic Choices 1987*. Washington, D.C.: The Brookings Institution.
- Aglietta, Michel. 1979. *A Theory of Capitalist Regulation: The U.S. Experience*. London: New Left Books.
- Albelda, Randy. 1987. Coping With the New Federalism. *Dollars and Sense* 128:12-15.
- Alcaly, Roger. 1978. An Introduction to Marxian Crisis Theory. In, *U.S. Capitalism in Crisis*, URPE/EEP. pp. 15-22. New York: URPE.
- Armstrong, Philip, Andrew Glyn and John Harrison. 1984. *Capitalism Since World War II: The Making and Breakup of the Great Boom*. London: Fontana.
- Atkins, Fiona. 1986. Thatcherism, Populist Authoritarianism and the Search for a New Left Political Strategy. *Capital and Class* 28:25-48.
- Baily, Martin Neil. 1981. Productivity and the Services of Capital and Labor. *Brookings Papers on Economic Activity* 1:1-65.
- Baldani, Jeffrey P. and Thomas R. Michl. 1987. A Balanced Budget Multiplier for Interest Payments. *Journal of Post Keynesian Economics* 9(3): 424-439.
- Baran, Paul A. and Paul M. Sweezy. 1966. *Monopoly Capital*. New York: Monthly Review Press.
- Bernstein, Peter. 1983. Capital Stock and Management Decisions. *Journal of Post Keynesian Economics* VI (1):21-38.
- Blair, John. 1974. Market Power and Inflation: A Short-Run Target Return Model. *Journal of Economic Issues* 8(2):453-478.
- Blaug, Mark. 1968. Technical Change and Marxian Economics. In, *Marx and Modern Economics*, David Horowitz (ed.). New York: Monthly Review Press.
- Bluestone, Barry and Bennett Harrison. 1982. *The Deindustrialization of America*. New York: Basic Books.
- and John Havens. 1986. How to Cut the Deficit and Rebuild America. *Challenge* 29(2):22-29.
- Boddy, Raiford and James Crotty. 1974. Class Conflict, Keynesian Policies, and the Business Cycle. *Monthly Review* 26(5):1-17.
- . 1975. Class Conflict and Macro-Policy: The Political Business Cycle. *Review of Radical Political Economics* 7:1-19.
- Bosworth, B. 1982. Capital Formation and Economic Policy. *Brookings Papers on Economic Activity*, No. 1. Washington, D.C.
- . 1985. Taxes and the Investment Recovery. *Brookings Papers on Economic Activity* 1:1-38.
- Bowles, Samuel. 1985. The Production Process in a Competitive Economy: Walrasian, Neo-Hobbesian, and Marxian Models. *American Economic Review* 75(1):16-36.
- and H. Gintis. 1982a. The Crisis of Liberal Democratic Capitalism: The Case of the United States. *Politics and Society* 11(1):51-93.
- . 1982b. The Welfare State and Long-Term Economic Growth: Marxian, Neoclassical, and Keynesian Approaches. *American Economic Review* 72(2).
- , David Gordon and Thomas Weisskopf. 1983. *Beyond the Wasteland*. Garden City, NY: Doubleday.
- . 1986. Power and Profits: The Social Structure of Accumulation and the Profitability of the Postwar U.S. Economy. *Review of Radical Political Economics* 18(1&2):132-167.
- Boyer, Robert (ed.). 1986. *La Flexibilité du Travail en Europe*. Paris: La Découverte.
- Boyer, Robert and Pascal Petit. 1981. Employment and Productivity in the European Economic Community. *Cambridge Journal of Economics* 5(1):47-58.

- Branson, William H. 1980. Trends in United States International Trade and Investment Since World War II. In, *The American Economy in Transition*, Martin Feldstein (ed.). pp. 183–257. Chicago: University of Chicago Press.
- Braverman, Harry. 1974. *Labor and Monopoly Capital*. New York: Monthly Review Press.
- Brenner, Robert. 1976. Agrarian Class Structure and Economic Development in Pre-Industrial Europe. *Past and Present* 70:30–70.
- . 1986. The Deep Roots of U.S. Economic Decline. *Against the Current* 1(2):19–28.
- Brimmer, A. F. and F. A. Dahl. 1975. Growth of International Banking: Implications for Public Policy. *The Journal of Finance* (May):341–363.
- Bruno, Michael and Jeffrey D. Sachs. 1985. *Economics of Worldwide Stagflation*. Cambridge: Harvard University Press.
- Burawoy, Michael. 1979. *Manufacturing Consent*. Chicago: University of Chicago Press.
- BEA (Bureau of Economic Analysis). 1981. *The National Income and Product Accounts of the United States, 1929–76 Statistical Tables* (NIPA). Washington D.C.: U.S. Government Printing Office.
- . 1984. *Survey of Current Business*. (July).
- . 1986. *Survey of Current Business*. (July).
- Business Week*. 1983. Citibank's Pervasive Influence on International Lending. (May 16):124–126.
- Carnoy, Martin, Derek Shearer and Russell Rumberger. 1983. *A New Social Contract: The Economy and Government After Reagan*. New York: Harper and Row.
- Center for Popular Economics. 1986. *Economic Report of the People*. Boston: South End Press.
- Chandler, Jr. A.D. 1977. *The Visible Hand*. Cambridge: Harvard University Press.
- Chenery, H. B. and A. M. Strout. 1966. Foreign Assistance and Economic Development. *American Economic Review* 56(4):680–733.
- Christensen, Laurits R. and Dale W. Jorgenson. 1969. The Measurement of U.S. Real Capital Input, 1929–1967. *Review of Income and Wealth* 15(4).
- Christiansen, Jens. 1976. Marx and the Falling Rate of Profit. *American Economic Review, Papers and Proceedings* 66(2):20–26.
- . 1982. Labor Productivity in the Steel Industry: A Comparative Study of the Federal Republic of Germany and the United States of America. Ph.D. dissertation, Stanford University.
- and Michele I. Naples. 1986. The Social Determinants of Productivity: Evidence from the U.S., U.K. and F.R.G. In, *The State, the Trade Unions and the Labour Market*, Vol. II, Gyorgy Sziraczki, (ed.). pp. 49–65, Budapest: Hungary Academy of Sciences, Institute of Economics.
- Clark, Kim and Lawrence Summers. 1982. The Dynamics of Youth Unemployment. In, *The Youth Labor Market Problem*, Richard Freeman and David Medoff, (eds.). pp. 199–230. Chicago: University of Chicago Press.
- Clark, Peter K. 1984. Productivity and Profits in the 1980s: Are They Really Improving? *Brookings Papers on Economic Activity* 1:133–163.
- Cohen, Joshua and Joel Rogers. 1983. *On Democracy: Toward a Transformation of American Society*. New York: Penguin.
- Cohen, Stephen S. and John Zysman. 1987. *Manufacturing Matters; The Myth of the Post-Industrial Economy*. New York: Basic Books.
- Collier, Robert. 1985. Democratizing the Private Sector: Populism, Capitalism and Capital Strike. *Socialist Review* (March–April):41–63.
- Conference Board. 1986. *Capital Appropriations and Capital Investment and Supply Conditions*. (January).
- Coontz, S. 1966. *Productive Labor and Effective Demand*. New York: Augustus Kelly.

- Cooper, Richard N. 1987. Arthur Okun Memorial Lecture. Yale University, (March 30).
- Corrigan, Gerald. 1985. Address Before the American Bankers Association, New York, September 18.
- Costanzo, G. A. 1965. Latin American Myths and Realities. *Barron's* (May 31).
- Council of Economic Advisors. 1987. *Economic Report of the President*. Washington, D.C.: U.S. Government Printing Office.
- . 1987. *Economic Indicators*. Washington, D.C.: U.S. Government Printing Office.
- Coutts, K., W.A.H. Godley and W.D. Nordhaus. 1978. *Industrial Pricing in the United Kingdom*. Cambridge: Cambridge University Press.
- Cripps, F. and W. Godley. 1978. Control of Imports as a Means to Full Employment and the Expansion of World Trade. *Cambridge Journal of Economics* 2.
- Cripps, T.F. and Roger Tarling. 1973. *Growth in Advanced Capitalist Countries, 1950–1970*. New York: Cambridge University Press.
- Crotty, James. 1985. The Centrality of Money, Credit and Financial Intermediation in Marx's Crisis Theory. In, *Rethinking Marxism*, S. Resnick and R. Wolff, (eds.). pp. 45–82. New York: Autonomedia.
- and Leonard A. Rapping. 1975. The 1975 Report of the President's Council of Economic Advisers: A Radical Critique. *American Economic Review* 65(5):791–811.
- Darity, W. 1984. Loan Pushing: Doctrine and Theory. International Finance Discussion Papers, No. 247. Washington D.C.: Board of Governors of the Federal Reserve.
- Davis, Mike. 1986. *Prisoners of the American Dream*. London: Verso.
- de Brunhoff, Suzanne. 1967. *Marx on Money*. New York: Urizen Books.
- . 1978. *The State, Capital, and Economic Policy*. London: Pluto Press.
- Denison, Edward F. 1969. Some Major Issues in Productivity Analysis: An Examination of Estimates by Jorgenson and Griliches. *Survey of Current Business* 49:1–27.
- Department of Commerce. 1985. *The National Income and Product Accounts of the United States*. Washington, D.C.
- Devine, James N. 1983. Underconsumption, Over-Investment and the Origins of the Great Depression. *Review of Radical Political Economics* 15(2):1–28.
- . 1986. Falling Profitability and Accelerating Inflation: A Conflict Theory Alternative to the Demographic Shift Theory of Full Employment. Loyola Marymount University, unpublished manuscript.
- . 1987. Cyclical Over-Investment and Crisis in a Labor-Scarce Economy. *Eastern Economic Journal*. (Forthcoming).
- DeVroey, Michel. 1984. Inflation: A Nonmonetarist Monetary Interpretation. *Cambridge Journal of Economics* 8(4):381–399.
- Diamond, S. 1979. *Towards a Marxist Anthropology*. The Hague: Mouton.
- Doeringer, Peter B. and Michael J. Piore. 1971. *Internal Labor Markets and Manpower Analysis*. Lexington, MA: Heath.
- Dorman, Peter. 1987. Micro-Models and Political Economy: The Case of Efficiency Wage Theory. Mimeo, University of California, Riverside.
- Dornbusch, Rudiger. 1987. *Dollars, Debts, and Deficits*. Cambridge: MIT Press.
- Dumenil, G., M. Glick and J. Rangel. 1984. The Tendency of the Rate of Profit to Fall in the United States, Part I. *Contemporary Marxism* 9:148–164.
- . 1985. The Tendency of the Rate of Profit to Fall in the United States, Part II: The Pattern of Irreversibility. *Contemporary Marxism* 11:138–152.
- . 1986. The Rate of Profit in the United States: From the Turn of the Century to the Nineteen Eighties. *Cambridge Journal of Economics* (Forthcoming).
- . 1987. Theories of the Great Depression: Why Did Profitability Matter? *Review of Radical Political Economics* 19(2).

- Eckstein, Otto. 1981. *Core Inflation*. Englewood Cliffs, NJ: Prentice-Hall.
- and Allen Sinai. 1986. The Mechanisms of the Business Cycle in the Postwar Era. In, *The American Business Cycle: Continuity and Change*, Robert J. Gordon (ed.), pp. 39–105. NBER: University of Chicago Press.
- Economic Report of the President*. 1984. Washington, D.C.
- . 1985. Washington, D.C.
- Edwards, Richard C. 1979. *Contested Terrain*. New York: Basic Books, Inc.
- , Michael Reich and Thomas Weisskopf (eds.). 1978. *The Capitalist System*. 2nd edition. Englewood Cliffs, NJ: Prentice-Hall.
- , Michael Reich and Thomas E. Weisskopf. 1986. *The Capitalist System*. 3rd edition. Englewood Cliffs, NJ: Prentice-Hall.
- Eisner, Robert. 1986. *How Real Is the Deficit?* Detroit, MI: The Free Press.
- Elbaum, Bernard and Frank Wilkinson. 1979. Industrial Relations and Uneven Development: A Comparative Study of the American and British Steel Industries. *Cambridge Journal of Economics* 3(3):275–303.
- Elliot, J. 1971. Funds Flow vs. Expectational Theories of Research and Development Expenditures in the Firm. *Southern Economic Journal* 37(4):409–422.
- Epstein, Gerald. 1982. Federal Reserve Politics and Monetary Instability. In, *The Political Economy of Public Policy*, A. Stone and E. Harpham, (eds.). Beverly Hills: Sage Publications.
- . 1985. The Triple Debt Crisis. *World Policy Journal* 2:625–657.
- and Thomas Ferguson. 1984. Monetary Policy, Loan Liquidation and Industrial Conflict: The Federal Reserve and the Open Market Operations of 1932. *Journal of Economic History* 64(4):957–983.
- and Juliet B. Schor. 1986. The Political Economy of Central Banking. Harvard Institute for Economic Research, Discussion Paper No. 1281.
- Fairley, John. 1980. French Developments in the Theory of State Monopoly Capitalism. *Science & Society* XLIV(3):305–325.
- Fazzari, Steven M. and Tracy L. Mott. 1986–87. The Investment Theories of Kalecki and Keynes: An Empirical Study of Firm Data, 1970–1982. *Journal of Post-Keynesian Economics* 9:171–187.
- Federal Reserve Bank of New York. 1986. *Recent Trends in Commercial Bank Profitability*. New York: Federal Reserve Bank of New York.
- Federal Reserve Bulletin*. 1981. (August). Washington, D.C.
- Feldstein, Martin. 1973. The Economics of the New Unemployment. *The Public Interest* 12:3–42.
- and Lawrence Summers. 1977. Is the Rate of Profit Falling? *Brookings Papers on Economic Activity* 1:211–228.
- and David Ellwood. 1982. Teenage Unemployment: What is the Problem? In, *The Youth Labor Market Problem*, Richard Freeman and David Wise, (eds.). pp. 17–34. Chicago: University of Chicago Press.
- Ferguson, Thomas and Joel Rogers. 1986. *Right Turn; The Decline of the Democrats and the Future of American Politics*. New York: Hill and Wang.
- Fernandez-Kelly, Patricia. 1983. *For We Are Sold, I and My People: Women and Industry on Mexico's Frontier*. New York: SUNY.
- Ferrer, Aldo. 1985. *Living Within Our Means*. Boulder, CO: Westview Press.
- Fine, Ben and Laurence Harris. 1979. *Rereading Capital*. New York: Columbia University Press.
- Flaherty, Sean. 1987a. Strike Activity, Worker Militancy, and Productivity Change in Manufacturing, 1961–81. *Industrial and Labor Relations Review* (July).
- . 1987b. Strike Activity and Productivity Change in the U.S. Auto Industry. *Industrial Relations* (July).

- Foley, Duncan. 1982. The Value of Money, the Value of Labor Power and the Marxian Transformation Problem. *Review of Radical Political Economics* 14(2):37-47.
- . 1983. On Marx's Theory of Money. *Social Concept* 1(1):5-19.
- . 1986. *Money, Accumulation and Crisis*. New York: Harwood Academic Press.
- Foss, M. 1984. *Changing Utilization of Fixed Capital: An Element in Long Term Growth*. Washington, D.C.: American Enterprise Institute.
- Foster, John Bellamy. 1982. Marxian Economics and the State. *Science & Society* XLVI(3):251-283.
- . 1983. Understanding the Significance of the Great Depression. *Studies in Political Economy* 11:177-196.
- . 1984a. Investment and Capitalist Maturity. In, *The Faltering Economy*, J. B. Foster and H. Szlajfer (eds.). pp. 57-73. New York: Monthly Review Press.
- . 1984b Marxian Economics and the State. In, *The Faltering Economy*, J. B. Foster and H. Szlajfer (eds.). pp. 325-349. New York: Monthly Review Press.
- . 1984c. The Limits of U.S. Capitalism: Surplus Capacity and Capacity Surplus. In, *The Faltering Economy*, J. B. Foster and H. Szlajfer (eds.). pp. 198-213. New York: Monthly Review Press.
- . 1986. *The Theory of Monopoly Capitalism*. New York: Monthly Review Press.
- and Henryk Szlajfer (eds.). 1984. *The Faltering Economy*. New York: Monthly Review Press.
- Frank, Andre Gunder. 1980. *Crisis: In the World Economy*. New York: Holmes & Meier Publishers.
- . 1981. *Crisis: In the Third World*. New York: Holmes & Meier Publishers.
- . 1984a. Can the Debt Bomb Be Defused? *World Policy Journal* (Summer).
- . 1984b. *The European Challenge: From Atlantic Alliance to Pan-European Entente for Peace and Jobs*. Westport, CT: Lawrence Hill & Co. Publishers.
- . 1986. Is the Reagan Recovery Real or the Calm Before a Storm? *Economic and Political Weekly* XXI(21 & 22).
- . 1987. The World Economic Crisis Today: Retrospect and Prospect. Manuscript.
- Freeman, Richard and James Medoff. 1982. Why Does the Rate of Youth Labor Force Activity Differ Across Surveys? In, *The Youth Labor Market Problem*, Richard Freeman and David Medoff, (eds.). pp. 75-114. Chicago: University of Chicago Press.
- . 1984. *What Do Unions Do?* New York: Basic Books Publishers, Inc.
- Friedman, Milton. 1971. A Monetary Theory of Nominal Income. *Journal of Political Economy* 323-337.
- and Anna Schwartz. 1969. *The Optimum Quantity of Money and Other Essays*. Chicago: Aldine.
- Gans, Herbert. 1967. Income Grants and 'Dirty Work.' *The Public Interest* 6:110-113.
- Garson, Barbara C. 1977. *All the Livelong Day: The Meaning and Demeaning of Routine Work*. New York: Penguin Books.
- Gillman, Joseph M. 1958. *The Falling Rate of Profit: Marx's Law and Its Significance to Twentieth Century Capitalism*. New York: Cameron Associates.
- Giussani, P. 1986. Profit Rate, Competition and the Choice of Technique. Unpublished paper.
- Glick, M. 1987. Three Replies to the Okishio Theorem: An Industrial Organization View. University of Utah, mimeo.
- Glyn, Andrew, and Bob Sutcliffe. 1972. *Capitalism in Crisis*. New York: Pantheon.
- Gold, B. 1976. Tracing Gaps Between Expectations and Results of Technological Innovations: The Case of Iron and Steel. *Journal of Industrial Economics* XXV(1):1-28.
- Goldfeld, Stephen M. and Lester V. Chandler. 1986. Ninth Edition. *The Economics of Money and Banking*. New York: Harper and Row.
- Goldsmith, R. 1955. *A Study of Savings in the United States*. Princeton, NJ: Princeton University Press.

- Goldstein, Jonathan P. 1985. The Cyclical Profit Squeeze: A Marxian Microfoundation. *Review of Radical Political Economics* 17(1&2):103-128.
- Gordon, David M. 1975. Capital vs. Labor: The Current Crisis in the Sphere of Production. In, *The Economic Crisis Reader*, David Mermelstein, (ed.). pp. 392-406. New York: Vintage Books.
- . 1978. Up and Down the Long Roller Coaster. In, *U.S. Capitalism in Crisis*, Union for Radical Political Economics (ed.). pp. 22-35. New York: Union for Radical Political Economics.
- . 1980. Stages of Accumulation and Long Economic Cycles. In, *Processes of the World-System*, T. Hopkins and I. Wallerstein (eds.). pp. 9-45. Beverly Hills: Sage Publications.
- . 1981. Labor-Capital Conflict and the Productivity Slowdown. *American Economic Review, Papers and Proceedings* 71(2):30-35.
- , Richard Edwards and Michael Reich. 1981. *Segmented Work, Divided Workers*. New York: Cambridge University Press.
- , Thomas E. Weisskopf and Samuel Bowles. 1986. A Conflict Model of Investment: The Determinants of U.S. Capital Accumulation in a Global Context. Mimeo, New School for Social Research.
- Gordon, Robert J. 1979. The 'End-of-Expansion' Phenomenon in Short-Run Productivity Behavior. *Brookings Papers on Economic Activity* 2:447-461.
- Gottheil, Fred M. 1966. *Marx's Economic Predictions*. Evanston: Northwestern University Press.
- Gough, Ian. 1972. Marx's Theory of Productive and Unproductive Labor. *New Left Review* (November-December):47-72.
- . 1979. *The Political Economy of the Welfare State*. London: Macmillan.
- Grabowski, H. 1968. The Determinants of Industrial Research and Development: A Study of Chemical, Drug, and Petroleum Industries. *Journal of Political Economy* 76(2):292-306.
- Green, Francis and Bob Sutcliffe. 1987. *The Profit System*. Harmondsworth and New York: Penguin.
- Griffin, Keith. 1971. The Role of Foreign Capital. In, *Financing Development in Latin America*, Keith Griffin (ed). London: Macmillan.
- Grunberg, Leon. 1983. The Effects of the Social Relations of Production on Productivity and Workers' Safety: An Ignored Set of Relationships. *International Journal of Health Services* 13(4):621-634.
- . 1986. Workplace Relations in the Economic Crisis: A Comparison of a British and a French Automobile Plant. *Sociology* 20(4):503-529.
- Gurley, John. 1971. State of Political Economy. *American Economics Review* 61:3-64.
- and Edward Shaw. 1956. Financial Intermediaries and the Saving-Investment Process. *Journal of Finance* (March):257-376.
- Gwynne, S. C. 1983. Adventures in the Loan Trade. *Harpers* (September):22-26.
- Hall, Stuart. 1985. Authoritarian Populism. *New Left Review* 151:115-124.
- Hansen, Alvin H. 1938. *Full Recovery or Stagnation?* New York: W. W. Norton.
- . 1955. The Stagnation Thesis. In, *Readings in Fiscal Policy*, American Economic Association (ed.). pp. 540-557. Homewood, IL: Richard D. Irwin, Inc.
- Harrison, Bennett. 1972. Education and Underemployment in Urban Ghettos. *American Economics Review* 62:796-813.
- Hartman, Chester (ed.). 1983. *America's Housing Crisis: What Is to Be Done?* Boston: Routledge & Kegan Paul.
- Harvey, David. 1982. *The Limits to Capital*. Chicago: University of Chicago Press.
- Hawley, J. 1979. The Internationalization of Capital: Banks, Eurocurrency and the Instability of the World Monetary System. *Review of Radical Political Economics* 11(4):78-90.

- Heilbroner, Robert. 1980. *The Making of Economic Society*. Englewood Cliffs, NJ: Prentice Hall, Inc.
- Herman, Edward S. and Louis Lowenstein. 1986. The Efficiency Effects of Hostile Takeovers. Working Paper #20, Center for Law and Economic Studies, Columbia University School of Law.
- Hirschhorn, L. 1984. *Beyond Mechanization: Work and Technology in a Post-Industrial Age*. Cambridge: MIT Press.
- Howenstine, N. G. 1984. U.S. Direct Investment Abroad in 1983. *Survey of Current Business* (August):18–40.
- Hymer, Stephen. 1972. The Multinational Corporation and the Law of Uneven Development. In, *Economics and World Order from the 1970s to the 1990s*. J. H. Bhagwati (ed.). New York: Macmillan.
- Inter-American Development Bank. 1984. *External Debt and Economic Development in Latin America*. Washington, D.C.: Inter-American Development Bank.
- Itoh, Makoto. 1978. The Formation of Marx's Theory of Crisis. *Science & Society* XLII:129–155.
- JEC. 1986. *The 1986 Joint Economic Report*. Washington, D.C.: Joint Economic Committee, Congress of the United States, March 11.
- JEC. 1987. *The 1987 Joint Economic Report*. Washington, D.C.: Joint Economic Committee, Congress of the United States, March 5.
- Jerome, H. 1934. *Mechanization of Industry*. New York: N.B.E.R.
- Kalecki, Michal. 1939. *Essays in the Theory of Economic Fluctuations*. New York: Russell and Russell.
- . 1943 (1971). Political Aspects of Full Employment. In, *Selected Essays on The Dynamics of the Capitalist Economy 1933–1970*, Michal Kalecki (ed.). pp. 138–145. Cambridge: Cambridge University Press.
- . 1965. *Theory of Economic Dynamics*. New York: Augustus M. Kelley.
- . 1971. *Selected Essays in the Dynamics of Capitalism*. New York: Cambridge University Press.
- . 1984a (1967). The Problem of Effective Demand with Tugan-Baranovski and Rosa Luxemburg. In, *The Faltering Economy*, J. B. Foster and H. Szlajfer (eds.). pp. 151–158. New York: Monthly Review Press.
- . 1984b. (1968). The Marxian Equations of Reproduction and Marxian Economics. In, *The Faltering Economy*, J. B. Foster and H. Szlajfer (eds.). pp. 159–166. New York: Monthly Review Press.
- Kaldor, Nicholas. 1982. *The Scourge of Monetarism*. Oxford: Oxford University Press.
- . 1986. *The Scourge of Monetarism*. New York: Oxford University Press.
- Kamien, M. and N. Schwartz. 1975. Market Structure and Innovation: A Survey. *Journal of Economic Literature*.
- Kaufman, Roger. 1978. Why Is the U.S. Unemployment Rate So High? *Challenge* 21:40–49.
- Kenway, Peter. 1980. Marx, Keynes and the Possibility of Crisis. *Cambridge Journal of Economics* 4(1):23–36.
- Keynes, John Maynard. 1933. National Self-Sufficiency. *The Yale Review* (June).
- . 1964. *The General Theory of Employment, Interest and Money*. New York: Harcourt, Brace, and World, Inc.
- Kindleberger, Charles. 1973. *The World in Depression: 1929–1939*. Berkeley and Los Angeles: University of California Press.
- . 1978. *Manias, Panics and Crashes*. New York: Basic Books.
- and J. P. Laffargue. (eds.). 1982. *Financial Crisis: Theory, History and Policy*. Cambridge, England: Cambridge University Press.

- Kolko, Gabriel. 1984. *Main Currents in Modern American History*. New York: Pantheon.
- Kopcke, Richard W. 1982. Forecasting Investment Spending: The Performance of Statistical Models. *New England Economic Review* (Nov/Dec).
- Koszul, J-P. 1970. American Banks in Europe. In, *The International Corporation*, C. P. Kindleberger (ed.). pp. 273-289. Cambridge: MIT Press.
- Kotz, David M. 1982. Monopoly, Inflation, and Economic Crisis. *Review of Radical Political Economics* 14(4):1-17.
- Krashevski, Richard S. 1986. What is Full Employment? *Challenge* 29(5):33-40.
- Lacombe, John and Joan Borum. 1987. Major Labor Contracts in 1986 Provided Record Low Wage Adjustments. *Monthly Labor Review* (May):10-16.
- Laibman, David. 1977. Toward a Marxian Model of Economic Growth. *American Economic Review* LXVII:387-392.
- . 1981. Two-Sector Growth with Endogenous Technical Change: A Marxian Simulation Model. *Quarterly Journal of Economics* XCVI:47-75.
- . 1982. Technical Change, the Real Wage and the Rate of Exploitation. *Review of Radical Political Economics* 14(2):95-105.
- . 1983. Capitalism and Immanent Crisis: Broad Strokes for a Theoretical Foundation. *Social Research* 50(2):359-400.
- . n.d. Technical Change, Profit and Growth: Immanent Crisis and Rigorous Theory. *Eastern Economic Journal*. (Forthcoming).
- Lavoie, Marc. 1984. The Endogenous Flow of Credit and the Post-Keynesian Theory of Money. *Journal of Economic Issues* 18(3):771-797.
- Lazonick, William. 1979. Industrial Relations and Technical Change: The Case of the Self-Acting Mule. *Cambridge Journal of Economics* 3(3):231-262.
- Leadbeater, David. 1985. The Consistency of Marx's Categories of Productive Labor and Unproductive Labor. *History of Political Economy* 17:519-619.
- Lefebvre, H. 1971. *Everyday Life in the Modern World*. New York: Harper and Row.
- Leibenstein, H. 1966. Allocative Efficiency vs. X-Efficiency. *American Economic Review* LVI(3):392-415.
- Leven, M., H. Moulton, and C. Warburton. 1934. *America's Capacity to Consume*. Washington, D.C.: Brookings Institution.
- Levidow, Les and Bob Young (eds.). 1981. *Science, Technology and the Labour Process*. New York: Humanities Press.
- Levine, David I. 1975. Developing Countries and the \$150 Billion Euromarket Financing Problem. *Euromoney* (December).
- Lim, Linda. 1986. The Progressive Effects of Foreign Investment on Third World Workers. Summer Conference, Union for Radical Political Economics.
- Lipietz, Alain. 1985. *The Enchanted World: Inflation, Credit, and the World Crisis*. London: Verso.
- . 1986. Behind the Crisis. *Review of Radical Political Economics* 18 (1&2):13-32.
- . 1987. *Mirages and Miracles*. London: Verso.
- Lipsey, Robert E. and Irving B. Kravis. 1987. Business Holds Its Own as America Slips. *The New York Times* (May 10).
- Lloyd, Cynthia and Beth Neimi. 1979. *The Economics of Sex Differentials*. New York: Columbia University Press.
- Lucas, Robert. 1977. Understanding Business Cycles. In, *Stabilization of the Domestic and International Economy*, K. Brunner and A. Meltzer (eds.). New York: North Holland.
- and Thomas J. Sargent. 1978. After Keynesian Macroeconomics. In, *After the Phillips Curve: Persistence of High Inflation and High Unemployment*. Federal Reserve Bank of Boston, Conference Series, No. 19.

- Lutz, M. and K. Lux. 1979. *The Challenge of Humanistic Economics*. Menlo Park, CA: Benjamin Cummings.
- MacEwan, Arthur. 1982. *Slackers, Bankers and Marketers: Multinational Firms and the Pattern of U.S. Direct Foreign Investment — A Working Paper*. Department of Economics, University of Massachusetts—Boston.
- . 1985. The Current Crisis in Latin America. *Monthly Review* (February):1–18.
- Magdoff, Harry. 1982. International Economic Distress and the Third World. *Monthly Review* 33 (11):1–13.
- . 1971. The End of U.S. Hegemony. *Monthly Review* (October):1–15.
- . 1974. Keynesian Chickens Come Home To Roost. *Monthly Review* 25(11):1–12.
- . 1979. Productivity Slowdown: A False Alarm. *Monthly Review* 31(2):1–12.
- . 1980. The Uses and Abuses of Measuring Productivity. *Monthly Review* 32(2):1–9.
- and Paul M. Sweezy. 1981. *The Deepening Crisis of U.S. Capitalism*. New York: Monthly Review Press.
- . 1987. *Stagnation and the Financial Explosion*. New York: Monthly Review Press.
- Mage, Shane. 1963. The “Law of the Falling Tendency of the Rate of Profit”: Its Place in the Marxian Theoretical System and Relevance to the U.S. Economy. Ph.D. Dissertation, Columbia University.
- Mandel, Ernest. 1975. *Late Capitalism*. London: New Left Books.
- Malabre, Alfred L., Jr. 1987. *Beyond Our Means, How America's Long Years of Debt, Deficits and Reckless Borrowing Threaten to Overwhelm Us*. New York: Random House.
- Marglin, Stephen A. 1974. What Do Bosses Do? The Origins and Functions of Hierarchy in Capitalist Production. *Review of Radical Political Economics* 6(2):33–60.
- . 1985. *Growth, Distribution, and Prices*. Cambridge, MA: Harvard University Press.
- and Samuel Bowles. 1987. The Cost of Job Loss and the Incidence of Strikes. *Review of Economics and Statistics* 49(3):
- Marx, Karl. 1935. *Wage-Labour and Capital/Value, Price and Profit*. New York: International Publishers.
- . 1967. *Capital*. Three Volumes. New York: International Publishers.
- . 1968. *Theories of Surplus Value*. Vol. 2. New York: International Publishers.
- . 1970. *A Contribution to the Critique of Political Economy*. Moscow: Progress Publishers.
- . 1973. *Grundrisse: Foundations of the Critique of Political Economy*. New York: Vintage.
- . 1976. *Capital*, Volume I. New York: International Publishers.
- . 1977. *Capital*, Volume 1. New York: Random House.
- . 1981. *Capital*, Volume 2. New York: Random House.
- . 1982. *Capital*, Volume 3. New York: Random House.
- Mattick, Paul. 1969. *Marx and Keynes: The Limits of a Mixed Economy*. Boston: Peter Sargent.
- McCoy, Charles F. 1987. Beyond the Dollars: Debt Crisis Is Inflicting a Heavy Human Toll in the Dominican Republic. *Wall Street Journal*, August 20.
- McCulloch, Rachel. 1986. Trade Deficits, Industrial Competitiveness, and the Japanese. In, *International Trade and Finance: Readings*, R.E. Baldwin and J.D. Richardson (eds). pp. 19–35. Boston: Little, Brown.
- McKinnon, R. 1982. Currency Substitution and Instability in the World Dollars Standard. *American Economic Review* 72(3):320–333.
- Medlen, Craig. 1984. Corporate Taxes and the Federal Deficit. *Monthly Review* 36(6):10–26.
- Medoff, James. 1979. Layoffs and Alternatives under Trade Unions in US Manufacturing. *American Economic Review* 69(3):380–395.
- Mensch, Gerhard. 1979. *Stalemate in Technology*. Cambridge, MA: Ballinger.
- Michl, Thomas R. 1985. International Comparisons of Productivity Growth: Verdoorn's Law Revisited. *Journal of Post Keynesian Economics* 7(4):474–492.

- Miller, John. 1986. The Fiscal Crisis of the State Reconsidered. *Review of Radical Political Economics* 18(1&2):236–260.
- . 1987. Crisis Theory and the Expansion of the State. *Research in Political Economy*, Vol. 10. Greenwich, CT: JAI Press.
- Mills, Rodney H. 1982. Spreads and Maturities on Eurocurrency Credits — Fourth Quarter 1981 and Two-Year Review. A memorandum. Washington: Board of Governors of the Federal Reserve.
- Milward, Alan S. 1984. *The Reconstruction of Europe, 1945–51*. London: Methuen.
- Minsky, Hyman. 1975. *John Maynard Keynes*. New York: Columbia University Press.
- . 1982. *Can 'It' Happen Again: Essays on Instability and Finance*. Armonk, NY: M. E. Sharpe.
- . 1986. *Stabilizing an Unstable Economy*. New Haven: Yale University Press.
- Mitchell, Daniel J. B. 1985. Shifting Norms in Wage Determination. *Brookings Papers on Economic Activity* 2:575–599.
- Modigliani, Franco. 1977. The Monetarist Controversy or Should We Forsake Stabilization Policies. In, *Economic Review* (Spring, 1977). The Federal Reserve Bank of San Francisco.
- Moseley, Fred. 1983. Marx's Concepts of Productive Labor and Unproductive Labor. *Eastern Economic Journal* 9:180–189.
- . 1985a. The Rate of Surplus-Value in the Postwar U.S. Economy: A Critique of Weisskopf's Estimates. *Cambridge Journal of Economics* 9:180–189.
- . 1985b. Estimates of the Composition of Capital in the Postwar U.S. Economy. Paper presented at the ASSA Annual Convention.
- . 1986. Estimates of the Rate of Surplus-Value in the Postwar U.S. Economy. *Review of Radical Political Economics* 18(1&2):168–189.
- Mosley, Hugh. 1982. Capital and the State. *Review of Radical Political Economics* 14(1):24–32.
- Mueller, D. 1967. The Firm Decision Process: An Econometric Investigation. *Quarterly Journal of Economics* 81(1):58–87.
- Musgrave, J. 1986. Fixed Reproducible Tangible Wealth in the United States: Revised Estimates. *Survey of Current Business* 66(1):51–75.
- Nakatani, Takeshi. 1979. Price Competition and Technical Choice. *Kobe University Economic Review* 25.
- Naples, Michele I. 1981. Industrial Conflict and Its Implications for Productivity Growth. *American Economic Review, Papers and Proceedings* 71(2):36–41.
- . 1982. The Structure of Industrial Relations, Labor Militance and the Rate of Growth of Productivity: The Case of US Mining and Manufacturing, 1953–1977. Ph.D. dissertation, University of Massachusetts, Amherst.
- . 1985. Dynamic Adjustment and Long-Run Inflation in a Marxian Model. *Journal of Post Keynesian Economics* 8(1):97–112.
- . 1986. The Unraveling of the Union-Capital Truce and the U.S. Industrial Productivity Crisis. *Review of Radical Political Economics* 18(1&2):110–131.
- . 1987a. Labor and Capital Utilization and the Productivity Slowdown. Mimeo, Rutgers University, New Brunswick, NJ.
- . 1987b. Industrial Conflict, the Quality of Worklife, and the Productivity Slowdown in U.S. Manufacturing. *Eastern Economic Journal*. (Forthcoming).
- . 1987c. Industrial Relations, Labor Costs and Long Waves in Postwar US Coal Mining. Mimeo, Rutgers University, New Brunswick, NJ.
- Nell, E.J. n.d. *Prosperity and Public Spending*. London: Allen & Unwin. (Forthcoming).
- Nordhaus, William. 1974. The Falling Share of Profits. *Brookings Papers on Economic Activity* 1:1974.
- . 1980. Policy Responses to the Productivity Slowdown. In, *The Decline in Productivity Growth*. Conference Series No. 22. pp. 147–172. Boston: Federal Reserve Bank of Boston.

- Nowzad, Bahram and Richard C. Williams. 1981. *External Indebtedness of Development Countries*. IMF Occasional Paper No. 3. Washington, D.C.: International Monetary Fund.
- O'Connor, James. 1973. *The Fiscal Crisis of the State*. New York: St. Martin's Press.
- Okishio, Nobuo. 1961. Technical Change and the Rate of Profit. *Kobe University Economic Review*.
- Organization for Economic Cooperation and Development (OECD). 1979. *Main Economic Indicators, Historical Statistics*. Paris: OECD.
- . 1982. *Main Economic Indicators*. Paris: OECD.
- . 1985. *OECD Economic Outlook* 38.
- Oster, Gerry. 1980. Labor Relations and Demand Relations: A Case Study of the "Unemployment Effect." *Cambridge Journal of Economics* 4(4):337–348.
- Parboni, Riccardo. 1981. *The Dollar and Its Rivals: Recession, Inflation and International Finance*. London: Verso.
- Parker, Mike. 1986. *Inside the Circle*. Detroit: Labor Notes Books.
- Pasinetti, L. 1981. *Structural Change and Economic Growth*. Cambridge: Cambridge University Press.
- Pecchioli, R. M. 1983. *The Internationalization of Banking: Policy Issues*. Paris: OECD.
- Perlo, Victor. 1982. The False Claim of Declining Productivity Growth and Its Political Use. *Science and Society* 46(3):284–327.
- Peterson, Wallace C. 1984. Economic Stabilization and Inflation. *Journal of Economic Issues* 18(1):69–100.
- Pevzner, Ia. 1984. *State Monopoly Capitalism and the Labor Theory of Value*. Moscow: Progress Publishers.
- Piore, Michael. 1978. Unemployment and Inflation: An Alternative View. *Challenge* 21:28–34.
- and Charles Sabel. 1984. *The Second Industrial Divide*. Chicago: University of Chicago Press.
- Piven, Frances and Robert Cloward. 1971. *Regulating the Poor*. New York: Pantheon.
- . 1982. *The New Class War: Reagan's Attack on the Welfare State and Its Consequences*. New York: Pantheon.
- Pollin, Robert. 1985. Industrial Policy and Financial Stabilization: A Preliminary Outline. Unpublished manuscript, Department of Economics, University of California-Riverside.
- . 1986. Alternative Perspectives on the Rise of Corporate Debt Dependency: The U.S. Postwar Experience. *Review of Radical Political Economics* 18:205–235.
- . 1987. Two Theories of Money Supply Endogeneity: Some Empirical Evidence. Unpublished manuscript, Department of Economics, University of California-Riverside.
- . 1988a. Deeper in Debt: The Changing Financial Conditions of U.S. Households. Joint Economic Committee of the U.S. Congress. (Forthcoming).
- . 1988b. The Growth of U.S. Household Debt: Demand-Side Influences. *Journal of Macroeconomics*. (Forthcoming).
- Porter, M. 1980. *Competitive Strategy*. New York: Free Press.
- Pratten, C.F. 1971. *Economies of Scale in Manufacturing Industry*. Cambridge: Cambridge University Press.
- Radice, Hugo. 1984. The National Economy — A Keynesian Myth. *Capital and Class* 22:111–140.
- Rapping, Leonard A. 1979. The Domestic and International Aspects of Structural Inflation. In, *Essays in Post-Keynesian Inflation*, James H. Gapsinski and Charles E. Rockwood (eds.). pp. 31–53. Cambridge, MA: Ballinger.
- Reagan, Ronald. 1982. Introduction. In, *The Economic Report of the President*, The Council of Economic Advisors, (eds.). Washington, D.C.: U.S. Government Printing Office.
- Rebitzer, James B. 1986. Unemployment, Long-Term Employment and Labor Productivity Growth. Ph.D. dissertation, University of Massachusetts, Amherst.

- Reich, Michael, Richard C. Edwards and David M. Gordon. 1982. *Segmented Work, Divided Workers*. Cambridge: Cambridge University Press.
- Rivlin, Alice. 1984. *Economic Choices 1984*. Washington, D.C.: The Brookings Institution.
- Robinson, Joan. 1942. *An Essay on Marxian Economics*. New York: St. Martin's Press.
- . 1946–47. The Pure Theory of International Trade. *Review of Economic Studies* 14:98–112.
- . 1966. Introduction. In, *Studies in the Theory of Business Cycles, 1933–1939*, Michal Kalecki. New York: Augustus M. Kelley.
- Roemer, John. 1978. Marxian Models of Reproduction and Accumulation. *Cambridge Journal of Economics* II:37–53.
- . 1979. Continuing Controversy on the Falling Rate of Profit: Fixed Capital and Other Issues. *Cambridge Journal of Economics* (December).
- Rohatyn, Felix. 1986. Address Before the Joint Economic Committee's 40th Anniversary Symposium. Washington, D.C., January 16.
- . 1987. On the Brink. *New York Review of Books* 34(8):3–6.
- Rosdolsky, Roman. 1977. *The Making of Marx's "Capital."* London: Pluto Press.
- Rose, Stephan. 1977. On Classifying State Expenditures. *Review of Radical Political Economics* 9(4):31–42.
- Rosenberg, Samuel and Thomas Weisskopf. 1981. A Conflict Theory Approach to Inflation in the Postwar U.S. Economy. *American Economic Review* 71(2):42–47.
- Rost, Ronald F. 1983. New Federal Reserve Measures of Capacity and Capacity Utilization. *Federal Reserve Bulletin* (July).
- Rowthorn, Robert E. 1975. What Remains of Kaldor's Law? *Economic Journal* 85:10–19.
- . 1977. Conflict, Inflation, and Money. *Cambridge Journal of Economics* 1:215–239.
- Rubin, I. I. 1972. *Essays on Marx's Theory of Value*. Detroit: Black and Red Press.
- Salomon Brothers Inc., Bank Securities Department. 1983. *U.S. Multinational Banking Semi-annual Statistics*. December 22.
- Samuelson, Paul. 1964. *Economics: An Introductory Analysis*. New York: McGraw Hill.
- Schnader, Marjorie H. 1984. Capacity Utilization. In, *The Handbook of Economic And Financial Measures*, Frank J. Fabozzi and Harry I. Greenfield (eds.). pp. 74–104. Illinois: Dow-Jones Irwin.
- Schor, Juliet B. 1985. Wage Flexibility, Social Wage Expenditures and Monetary Restrictiveness. In, *Money and Macro Policy*, Marc Jarsulic, (ed.). pp. 135–154. Boston: Kluwer-Nijhoff.
- and Samuel Bowles. 1984. Employment Rents and Class Conflict: An Empirical Investigation. Mimeo, University of Massachusetts, Amherst.
- Schumpeter, Joseph. 1934. Depressions. In, *The Economics of the Recovery Program*, Douglass V. Brown, et. al. (ed.). pp. 3–21. New York: McGraw-Hill.
- . 1939. *Business Cycles*, Vol. II. New York: McGraw-Hill.
- . 1942. *Capitalism, Socialism and Democracy*. New York: Harper and Row.
- . 1951. *Ten Great Economists*. New York: Oxford University Press.
- Shaikh, A. 1978. *National Income Accounts and Marxian Categories*. Mimeo. The New School for Social Research.
- . 1978a. An Introduction to the History of Crisis Theories. In, *U.S. Capitalism in Crisis*. New York: U.R.P.E.
- . 1978b. Political Economy and Capitalism: Notes on Dobb's Theory of Crisis. *Cambridge Journal of Economics* 2:233–251.
- . 1983. Marxist Theories of Crisis. In, *A Dictionary of Marxist Thought*, Tom Bottomore (ed.). London: Basil Blackwell.

- . 1987. Organic Composition of Capital. In, *The New Palgrave: A Dictionary of Economic Theory and Doctrine*, John Eatwell, Murray Milgate and Peter Newman (eds.). London: Macmillan.
- Shannon, Russell and Myles S. Wallace. 1985. Wages and Inflation: An Investigation into Causality. *Journal of Post Keynesian Economics* 8(2):182–191.
- Shepherd, W.G. 1982. Causes of Increased Competition in the U.S. Economy, 1939–1980. *Review of Economics and Statistics* 64(4):613–626.
- Sherman, Howard J. 1983. *Stagflation*. New York: Harper and Row, Publishers.
- and Gary Evans. 1984. *Macroeconomics: Keynesian, Monetarist, and Marxist Views*. New York: Harper and Row.
- Slaughter, Jane. 1985. *Concessions and How to Beat Them*. Detroit: Labor Notes Books.
- Solow, Robert. 1980. On Theories of Unemployment. *American Economics Review* 70:1–11.
- Steedman, Ian. 1977. *Marx After Sraffa*. London: New Left Books.
- , John Armstrong and Andrew Glyn. 1979. Comments on Political Economy and Capitalism: Notes on Dobb's Theory of Crisis. *Cambridge Journal of Economics* 4.
- Stein, Herbert. 1969. *The Fiscal Revolution in America*. Chicago: University of Chicago Press.
- Steindl, Josef. 1952. *Maturity and Stagnation in American Capitalism*. Oxford: Blackwell.
- . 1968. Karl Marx and the Accumulation of Capital. In, *Marx and Modern Economics*, David Horowitz (ed.). pp. 244–269. New York: Modern Reader Paperbacks.
- . 1976. *Maturity and Stagnation in American Capitalism*. New York: Monthly Review Press.
- Stern, David and Daniel Friedman. 1980. Short-Run Behavior of Labor Productivity: Tests of the Motivation Hypothesis. *Journal of Behavioral Economics* 9(2):89–105.
- Stone, Katherine. 1974. The Origins of Job Structures in the Steel Industry. *Review of Radical Political Economics* 6(2):61–97.
- Stoneman, William E. 1979. *A History of the Economic Analysis of the Great Depression in America*. New York: Garland Publishing.
- Summers, Lawrence H. 1986. Why Is the Unemployment Rate So Very High Near Full Employment? *Brookings Papers on Economic Activity* 2:339–383.
- Sweezy, Paul M. 1942. *The Theory of Capitalist Development*. New York: Monthly Review Press.
- . 1972. *Modern Capitalism*. New York: Monthly Review Press.
- . 1981. *Four Lectures on Marxism*. New York: Monthly Review Press.
- . 1987. Interview with Paul Sweezy. *Monthly Review* 38(11):1–28.
- and Harry Magdoff. 1975. Banks: Skating on Thin Ice. *Monthly Review* 26(9):1–21.
- . 1984. Money Out of Control. *Monthly Review* (December):1–12.
- Szymanski, Al. 1984. Productivity Growth and Capitalist Stagnation. *Science and Society* XLVIII (3):295–322.
- Taylor, Lance. 1985. A Stagnationist Model of Economic Growth. *Cambridge Journal of Economics* 9(4): 383–404.
- Therborn, G. 1984. The Prospects of Labour and the Transformation of Advanced Capitalism. *New Left Review* 145.
- . 1986. *Why Some Peoples Are More Unemployed Than Others: The Strange Paradox of Growth and Unemployment*. London and New York: Verso.
- Thurow, Lester. 1986. A Positive-Sum Strategy: A Review. *Scientific American* 255 (3):24–31.
- Tobin, James. 1980. *Asset Accumulation and Economic Activity*. Chicago: University of Chicago Press.
- Tonak, E. Ahmet. 1984. *A Conceptualization of State Revenues and Expenditures: The U.S., 1952–1980*. Unpublished Ph.D. dissertation. The New School for Social Research.

- . 1987. The U.S. Welfare State and the Working Class; 1952–1980. *Review of Radical Political Economics* 19(1):47–72.
- Triffin, R. 1978–79. The International Role and Fate of the Dollar. *Foreign Affairs* 57(2):269–286.
- Tucker, Robert (ed.). 1978. *The Marx-Engels Reader*. 2nd edition. New York: W. W. Norton.
- Tufte, Edward R. 1978. *Political Control of the Economy*. Princeton: Princeton University Press.
- Turner, P. 1980. Import Competition and the Profitability of United Kingdom Manufacturing Industry. *The Journal of Industrial Economics* XXIX(2):155–166.
- U.S. Department of Commerce. 1987. *Statistical Abstract of the United States*. (107th ed.) Washington, D.C.: U.S. Government Printing Office.
- van Duijn, J.J. 1983. *The Long Wave in Economic Life*. London: George Allen and Unwin.
- van Parijs, Phillippe. 1980. The Falling-Rate-of-Profit Theory of Crisis: A Rational Reconstruction by Way of Obituary. *Review of Radical Political Economics* 12(1):1–16.
- Walker, John F. and Harold G. Vatter. 1986. Stagnation—Performance and Policy: A Comparison of the Depression Decade with 1973–1984. *Journal of Post Keynesian Economics* VIII (4):515–530.
- Wallerstein, Immanuel. 1982. Crisis as Transition. In, *Dynamics of Global Crisis*, Samir Amin, Giovanni Arrighi, Andre Gunder Frank and Immanuel Wallerstein (eds.). pp. 11–54. New York: Monthly Review Press.
- Wallich, Henry C. and Sidney Weintraub. 1971. A Tax-Based Incomes Policy. *Journal of Economic Issues* 5(2):1–19.
- Weeks, John. 1979. The Process of Accumulation and the 'Profit-Squeeze' Hypothesis. *Science and Society* 43(3):259–280.
- . 1982. *Capital and Exploitation*. Princeton, NJ: Princeton University Press.
- Weintraub, Sidney. 1978. *Capitalism's Inflation and Unemployment Crisis*. Reading, MA: Addison-Wesley.
- Weisskopf, Thomas E. 1978. Marxian Perspectives on Cyclical Crisis. In, *US Capitalism in Crisis*, Economics Education Project, Union for Radical Political Economics, (ed.). pp. 241–260. New York: URPE.
- . 1979. Marxian Crisis Theory and the Rate of Profit in the Postwar U.S. Economy. *Cambridge Journal of Economics* 69:341–378.
- . 1985. Sources of Profit Rate Decline in the Advanced Capitalist Economies: An Empirical Test of the High-Employment Profit Squeeze Theory. University of Michigan, mimeo.
- . 1986. Class Conflict or Class Harmony?: A Study of the Effect of Worker Security on Productivity Growth in Eight Advanced Capitalist Economies. Working Paper, University of Michigan, Ann Arbor MI.
- , Samuel Bowles and David M. Gordon. 1983. Hearts and Minds: A Social Model of U.S. Productivity Growth. *Brookings Papers on Economic Activity* (2):381–441.
- , Samuel Bowles and David Gordon. 1985. Two Views of Capitalist Stagnation. *Science and Society* XLIX (3):259–286.
- Weston, J. Fred and Eugene F. Brigham. 1982. *Essentials of Managerial Finance*. Sixth Edition. Chicago: Dryden Press.
- Williams, R. C. et. al. 1981. *International Capital Markets*, 1981. IMF Occasional Paper No. 7. Washington: International Monetary Fund.
- Willoughby, John. 1982. The Changing Role of Protection in the World Economy. *Cambridge Journal of Economics* 6:195–211.
- Wojnilower, Albert M. 1980. The Central Role of Credit Crunches in Recent Financial History. *Brookings Papers on Economic Activity* 2:277–326.
- Wolff, Edward N. 1986. The Productivity Slowdown and the Fall in the U.S. Rate of Profit, 1947–76. *Review of Radical Political Economics* 18:87–109.

- . 1987. *Growth, Accumulation and Unproductive Activity: An Analysis of the Postwar U.S. Economy*. New York: Cambridge University Press.
- Wolfson, Martin. 1986. *Financial Crises*. Armonk, NY: M. E. Sharpe.
- Wright, Erik Olin. 1979. *Class, Crisis, and the State*. London: Verso.
- Yaffe, David. 1973. The Marxian Theory of Crisis, Capital, and the State. *Economy and Society* 2(2):186–232.
- Zeithaml, C. and L. Fry. 1984. Contextual and Strategic Differences Among Mature Businesses in Four Dynamic Performance Situations. *Academy of Management Journal* 28(4):841–860.