



**Politics, Financial Crisis, Central Bank
Constitution and Monetary Policy**

Peter Bernholz
10/5

Freiburger
Diskussionspapiere
zur Ordnungsökonomik

Freiburg
Discussion Papers
on Constitutional Economics



**Politics, Financial Crisis, Central Bank
Constitution and Monetary Policy**

Peter Bernholz
10/5

P

**Freiburger Diskussionspapiere zur Ordnungsökonomik
Freiburg Discussionpapers on Constitutional Economics**

10/4

ISSN 1437-1510

Walter Eucken Institut, Goethestr. 10, D-79100 Freiburg i. Br.
Tel.Nr.: +49 +761 / 79097 0; Fax.Nr.: +49 +761 / 79097 97
<http://www.walter-eucken-institut.de>

Institut für Allgemeine Wirtschaftsforschung; Abteilung für Wirtschaftspolitik;
Albert-Ludwigs-Universität Freiburg, D-79085 Freiburg i. Br.
Tel.Nr.: +49 +761 / 203 2317; Fax.Nr.: +49 +761 / 203 2322
<http://www.wipo.uni-freiburg.de/>

Politics, Financial Crisis, Central Bank Constitution and Monetary Policy

Peter Bernholz

August 2010 Version

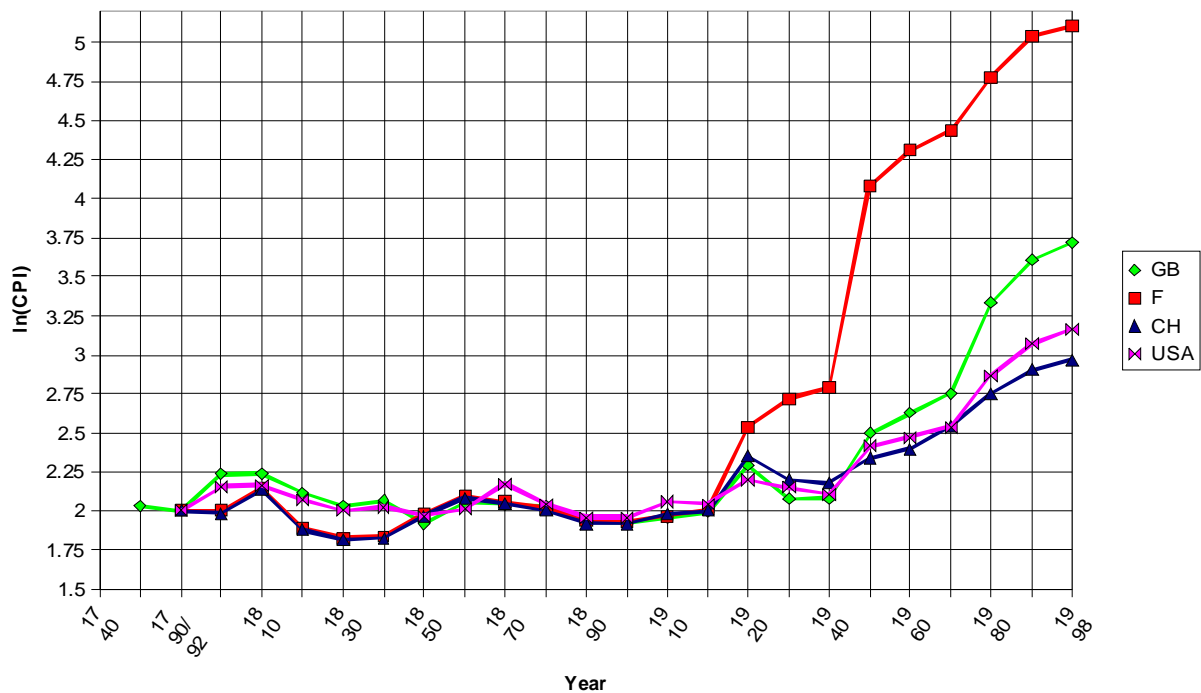
Prof.em.Dr.Dr.h.c. Peter Bernholz
Center for Economics and Business (WWZ)
Universität Basel
Postfach 142
CH-4003 Basel
Switzerland
Tel.: xx41-79-3216701

Politics, Financial Crisis, Central Bank Constitution and Monetary Policy

1. Introduction

The damages and suffering caused by inflation during the course of history are enormous. Still, the worst excesses of inflation occurred not before the 20th century. This development was a consequence of the further technical development of money from coins to paper money and book money together with changes in the monetary regime or constitution ruling supply and control of money. Sustained inflation has always been a monetary phenomenon in the sense that the increase of the money supply is a necessary condition for its occurrence. Moreover, if an increase of the money supply is permanently outstripping the growth of real gross domestic product it is also a sufficient condition for inflation. But that is not the whole story. For it has still to be asked which are the factors and institutional settings that allow the excessive growth of the money supply. And here historical evidence provides a clear answer (Figure 1.1).

**Figure 1.1: Development of Cost of Living Indices
(French Figures for Switzerland before 1890)**



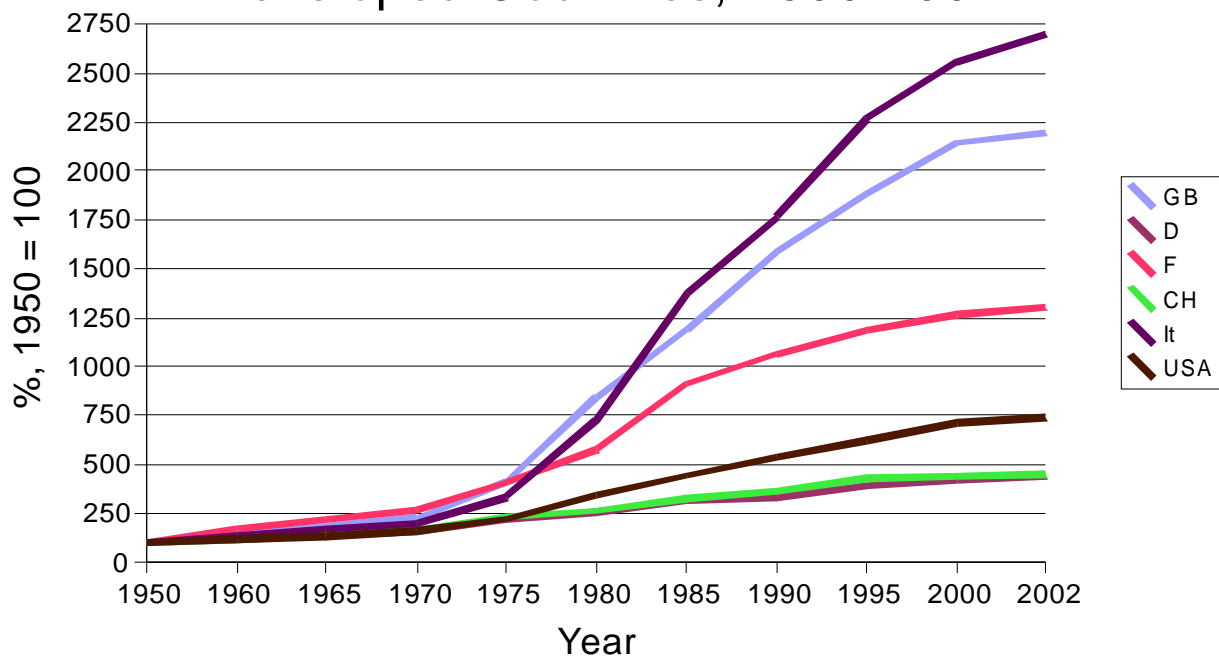
Sources: Mitchell (1976), pp. 735-747. Statistisches Bundesamt (1981), pp. 704-706. US Bureau of the Census (1976): Historical Statistics of the United States: Colonial Times to 1970. Bicentennial Edition. Statistisches Bundesamt (2000), pp. 230f.

During the rule of the gold and silver standards until the outbreak of the World War I or after the restoration of it until the Great Depression of the 1930s no upward trend of the price level, but only long-term swings can be observed. But after the demise of the convertibility of banknotes into gold at a fixed parity and thus the introduction on a discretionary paper money standard the price level rises dramatically even in the respective developed countries.

And this is not all, as can be seen by looking at Figure 1.2. Here we observe a similar increase of price levels until the breakdown of the Bretton Woods system in 1971-1973. After that prices rise much more quickly in Italy, Britain and France than in Switzerland, Germany and the USA.

The reasons for these developments are obvious. The latter three countries enjoyed independent central banks, whereas the former did not. And the Bretton Woods System was dominated by the

Figure 1.2: Development of Cost of Living in Seven Developed Countries, 1950-2002



Sources: See Figure 2.1.

US Federal Reserve System (Fed), an independent central bank, whereas the other countries had to follow its lead apart from some de- or revaluations because of fixed exchange rates to the dollar.

This leads to the following conclusions: Inflation has been the higher the greater the influence of politicians on monetary policy. During the gold standard politicians had no influence on monetary matters. With a discretionary monetary system their influence increased, but much less when central banks were legally and in fact independent. But since their directors are only human beings and not bound any longer by automatic rules, they can be influenced by political and psychological

pressures and also by the ideas prevailing in their environment. Thus inflation was higher even with independent central banks than under the gold standard. It follows that inflation is absent or the lower the more the hands of politicians are bound by the monetary constitution. Given these relationships it is not surprising that the Freiburg ordo liberal school as well as constitutional economics have been in favor of measures trying to limit political influences on monetary policies. The ordo liberals in Germany certainly favored an independent central bank in the 1950s. Priority of price stability was considered by Walter Eucken (1952, p. 169) as a constitutive element of a market economy. According to him an international monetary order has to fulfill the following minimal conditions:

- (a) it has to function automatically, so that the governors of central banks cannot determine monetary policy by discretion according to changing viewpoints.*
- (b) The mechanism has to work as much as possible towards stability of exchange rates*
- (c) A strong stabilizer has to be built into the mechanism, which works much more strongly than under the gold standard to prevent deflation and inflation.*

His disciple Friedrich Lutz (1935, p. 247) had already stated that

A particular monetary constitution corresponds to each economic system and the gold standard is the monetary system of the free market economy.

Later he proposed to accept the Chicago plan which proposed a 100% reserve requirement in central bank money for all demand deposits (Angell 1935). Eucken followed him in accepting this idea from the other side of the Atlantic, but proposed to introduce additionally the Graham (1937) plan envisaging a commodity reserve currency with convertibility of money into a commodity bundle of fixed proportions at a fixed parity. This shows how much ordo liberal thinking was influenced by earlier American constitutional thinking. Later Lutz proposed the acceptance of flexible exchange rates, given the relatively stable monetary policies of the Deutsche Bundesbank. It is also well-known that Hayek (1978) came out in favor of free banking since he lost faith in the stability of money controlled by central bankers.

2. Monetary and Fiscal Policies during the Financial Crisis.

Many historical examples demonstrate that metallic monetary standards as a constitution binding the hands of rulers and politicians have been often the victims of severe financial crises. Such

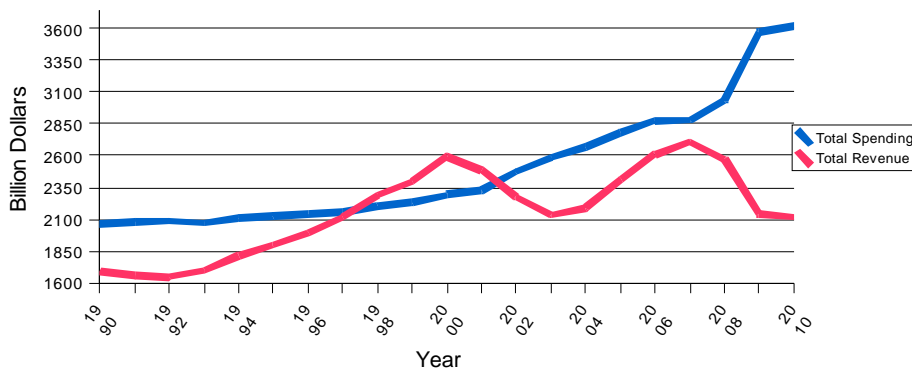
financial crises have especially arisen with the outbreak of wars when ordinary revenues of governments could not be adapted to the needs of war finance. It is not by chance that all European governments except Albania abolished the gold standard at the beginning of World War I. Similar events occurred during the Great French Revolution and the Napoleonic Wars. Even Britain suspended the gold standard at that time though it returned to it at the old parity after this period. Specie payments were suspended by an Order in Council in February 1797, that is not by an Act of Parliament. Similar events happened even in earlier times when paper notes played no or only a minor role. Frederic II of Prussia debased Prussia's silver currency during the Seven Years War. And already more than 2000 years earlier Athens debased its silver currency during the Peloponnesian War and Rome did the same much more strongly during the chaotic periods of the fourth century A.D. with its many civil and international wars. But financial crises are not limited to wars. Thus it is not a surprise that the Great Depression brought about the final end of the gold standard. As President Franklin D. Roosevelt pronounced on April 5, 1933:

All persons are hereby required to deliver on or before May 1, 1933, to a Federal Reserve Bank or branch or agency thereof or to any member bank of the Federal Reserve System all gold coin, gold bullion, and gold certificates.

With these observations in mind we have to ask several questions. First, what were the policy responses of leading central banks to the recent financial crisis? Second, did their behavior and the influence of politicians on them threaten their independence? Third, are there any safeguards to prevent the threats posed by financial crises to their independence in the future? Are other institutional or constitutional reforms available to hinder politicians to influence monetary policies? In this section let me first consider the monetary policies of central banks since the year 2000.

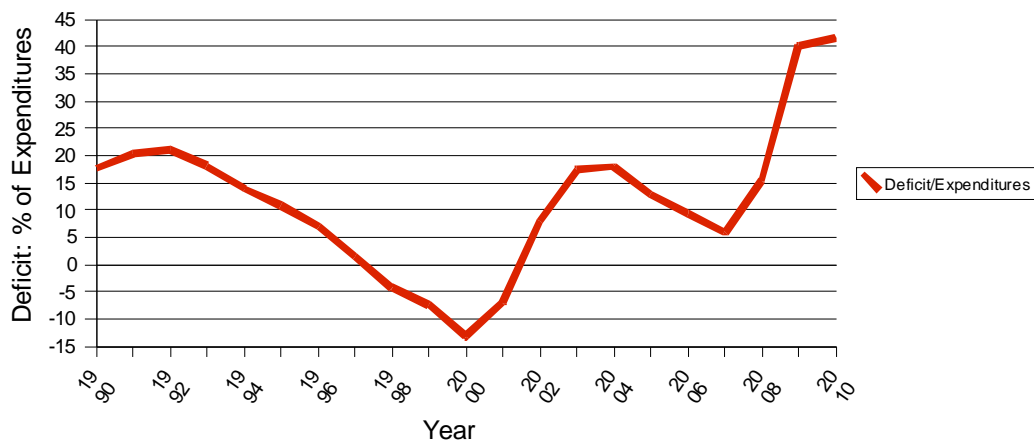
I begin by stating two facts which in my view cannot be denied: First, that the present crisis has been initiated by the Fed's too expansionary monetary policies after the bursting of the New Economy Bubble. Second, that the Fed and the US government embarked on even more expansionary policies to fight the present crisis. Indeed, their policies constitute an experiment on a scale which has never been seen before in the history of fighting crises.

Figure 2.1: US Federal Spending and Revenue (Inflation Adjusted), 1990-2010



2010: Estimated

Figure 2.2: US Federal Budget: Deficit/Expenditures, 1990-2010



Let me turn to the first point. In a mistaken fear of deflation the Fed lowered its interest rate to one percent and increased the monetary base by about 39% from 2000 to 2006 after the bursting of the New Economy Bubble. In doing so it encouraged an incredible credit expansion by the financial sector and thus allowed the subsequent asset bubble. Later it helped to pierce the bubble by raising its interest rate step by step above 5% and by strongly reducing the growth of the monetary base. Though the Fed thus initiated the crisis, we should not deny that it would never have taken such dramatic dimensions hurting the real economy without other well-known defects in the financial system like:

1. Banks neglected to maintain a sufficiently diversified portfolio.
2. The compensation systems for leading managers were far too much based on short-term

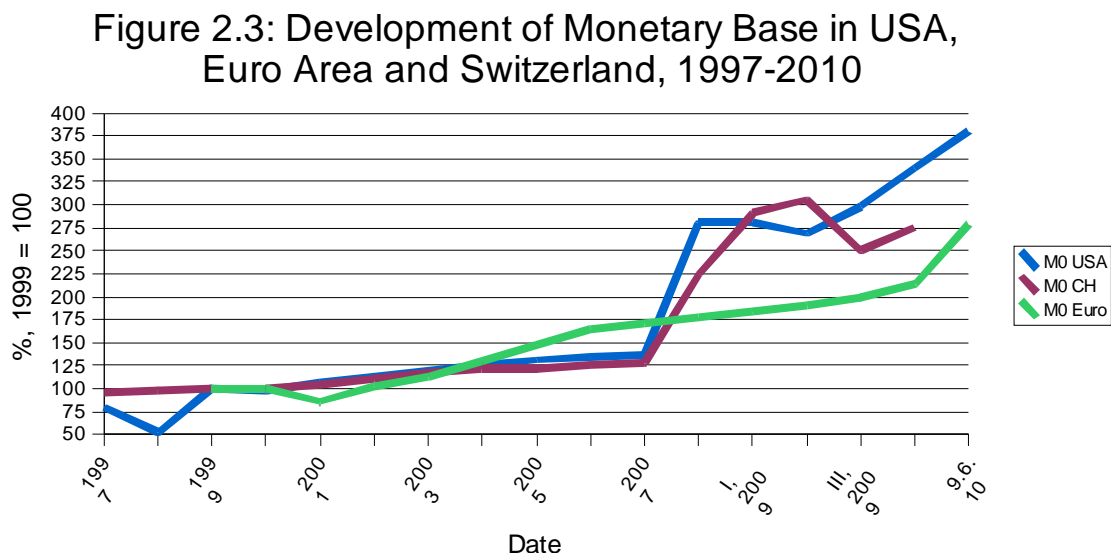
performances.

3. The control system within banks failed.
4. Rating agencies financed by their customers grossly misjudged the values of firms and assets.
5. The measures by the US government to ease the buying of houses by relatively poor people proved to be mistaken.
6. American liability rules in case owners could not pay the interest on their mortgages encouraged too high levels of indebtedness.
7. The liability rules for gross mistakes by leading managers of business firms were too restricted.
8. The percentages of own capital required for banks by internationally agreed rules (Basle 2) and the valuation at market prices adhered to during the crisis exacerbated it.
9. The permission by Basle 2 for banks to employ their own models to evaluate risks was a mistake.
10. The control of financial institutions by government agencies failed.
11. The lack of knowledge of economic history by leading managers encouraged them to take overly risky decisions.

Before taking up the second point, namely the possible consequences of measures taken by Fed and US government to counter the crisis, let me stress that crises cannot be prevented in an decentralized and innovative market economy. It may be possible to mitigate them by adequate reforms or even to prevent one or the other. But that is the best result one can hope for. This can be demonstrated by looking at the occurrence of crises from two different perspectives. By analyzing historical events Charles Kindleberger has shown in his book *Manias, Panics and Crises* of (1978) that 29 financial crises occurred from 1720 to 1975. This means that on average each decade experienced an unpredictable crisis, though very strong crises are rather rare. For instance, besides that of 1929 another one of 1873 has been severe, lasting about six to seven years and hitting the real economy from Europe to the USA, Argentina and Australia. Apart from this historical evidence for the inevitability of crises, mathematical chaos theory has demonstrated that systems characterized by non-linear feedbacks can be hit by unpredictable fluctuations. And a decentralized market economy has quite a number of such feedbacks, for instance changing expectations of consumers and producers, fluctuations in the volume of net investments, governmental interventions, central bank policies and the reaction of prices to unpredictable innovations.

We turn now to the second point, whether grave dangers are looming because of the measures taken by central banks and governments to fight the present crisis. Let us first consider the facts. Central banks led by the Fed have indeed lowered their interest rates to nearly zero percent. The

monetary base of the Fed has grown by about 279% until June 16, 2010 since the end of 2007. The recent announcement of further “Quantitative Easing” is likely to further worsen the situation.



Even the Swiss National Bank increased its monetary base by 115% from the end of 2007 to the end of 2009. The growth of the monetary base in the Euro Area looks more modest with 64% since the end of 2007 until June 2010. But even this smaller increase has never been experienced in monetary history except in countries suffering from high inflation, And since the Greek crisis the ECB has begun to buy bad Greek government assets and thus to presumably further increase its monetary base.

Government finances, too, have worsened dramatically because of the measures taken to fight the crisis. The US deficit rose from 2.9% of Gross Domestic Product (GDP) in 2007 to 8% in the fourth quarter of 2008; for 2009 a deficit of 10.2% was expected. This implies that the indebtedness of the USA would have reached 73.2% of GDP in that year. During fiscal year 2009 40.16% of Federal expenditures were covered by credits, and in fiscal year 2010 even 41.46%. In Great Britain the deficit grew from 2.7% to 5.4% in 2008, whereas one of 9.3% was foreseen for 2009. In the Euro Area the deficit of member states increased from 3.5% in the fourth quarter of 2007 to 9.3% of GDP in the end of 2008. The debt reached 78.6% of GDP in the end of 2009, with Italy at 115.8 and Greece at 115.1 leading the development. The budgetary crisis of Greece following in 2010, and similar, but less severe developments in Portugal and Spain have demonstrated that weaker economies have used the low interest rates to indebt themselves beyond any reasonable limits.

But were the measures taken by the Fed and other central banks as well as those of the respective

governments not justified because of the dramatic situation and the dangers threatening in the crisis? It is difficult to form a judgment because of the extraordinary extent of the measures and because we do not know the further course of the crisis. Speaking to members of the board of central banks one is assured that they are technically able to reduce the blown up monetary base and to increase their interest rates to normal levels any time. This is probably true. Asking, however, whether they will be able to do so given the political and psychological pressures to be expected when timely measures to prevent inflation by rising interest rates have to be taken, the answer is again „yes“. But this seems to be rather doubtful since they would have already to occur at a time when tender growth has just set in and when unemployment may still be rising. For a stiffening of monetary policies to fight inflation has to set in about two years before results can be observed because of the usual time lags. It is thus not surprising that former board members of central banks and well-informed economists are much more skeptical concerning the chances to increase interest rates and to reduce the monetary base in time to prevent substantially higher rates of inflation.

It is thus probable that we have to face some bad consequences of a mistaken policy in the future. Already Sir Walter Bagehot (1873) recommended to the Bank of England to lend freely in a crisis drying up the money markets among financial institutions, a policy which was rightly followed by the central banks during the recent crisis. But Bagehot also recommended to do this at a penalty interest rate and only to institutions who were solvent judged from the value of their assets in normal times. And Wicksell warned already in 1898 against the dangers implied by lowering the interest rate below its natural rate in a discretionary monetary regime.

3. Did the Financial Crisis and the Measures Taken against it Undermine the Independence of Central Banks?

Unfortunately we have to answer the question whether the financial crisis undermined the independence of central banks with a clear „yes“. The most recent example is the dramatic policy change of the ECB in the beginning of May 2010, which clearly violated the requirements of the Maastricht Treaty not to lend to member governments, if not legally – this is an issue still debated – then at least in spirit. Even worse, the ECB bought Greek government junk assets in the capital markets above market valuation, and there is a definite danger that all such outstanding assets will finally land with the IMF and the ECB. Moreover, the ECB also accepted bad Greek assets as security for its lending to Greek banks. According to reliable though not official information only three of the members of the decisive body, among them the two German representatives voted against this new policy.

It is perhaps not surprising that similar policies were already pursued by the Fed for quite some

time before the ECB embarked on its new policies. For instance it had bought until June 17, 2009 665.7 billion dollars of mortgage-backed securities. Until June 16 of 2010 it increased these dubious assets to an amount of 1121 billion. In a note it mentions concerning them „*Guaranteed by Fannie Mae, Freddie Mac, and Ginnie Mae. Current face value of the securities, which is the remaining Principal balance of the underlying mortgages.*“ (Federal Reserve, H.4.1, Fn. 4). This means of course that these assets are guaranteed now by the federal government. To these dubious assets others under fanciful names like Maiden, Talf, AIA Aurora LLC and Alico Holdings LLC, which were sponsored by governmental measures have to be added.

Even the Swiss National Bank has been led by the UBS crisis to lend at the end of 2009 21 billion francs to the Stabilization Fund created to take over dubious assets from the UBS.

4. What are the Forces Threatening the Independence of Central Banks?

In the early 1970s the Hungarian Janos Kornai (1971) observed that it was characteristic for communist countries that no binding budget constraints for firms and other organizations were present. Obviously this fact contributed to the bad performance of these so-called planned economies. Now it seems to follow from public choice analysis that politicians and governments in democratic market economies are also not in favor of binding budget constraints. They try to push them outward to be more able to grant favors to their constituencies or to interest groups in order to win the next elections. And increases in taxes are certainly less favored for these purposes than to soften budget constraints by incurring debts in money and capital markets. But unfortunately for the intentions of politicians there exist limits concerning, the amount of debts they can heap up. First, the interest to be paid on them swallows an ever bigger part of government revenues. And second, creditors may become suspicious when observing a rising indebtedness and call for higher risk premiums on interest to be paid.

At this critical moment establishing control of central banks may be helpful for government politicians. And at this juncture a decisive difference between gold standard and discretionary monetary regimes becomes important. To make this clear let us look at the balance sheet of the Swiss National Bank (SNB, Bilanz 2009) as a least suspicious example.

Simplified Balance Sheet of the SNB, End of 2009

Billion Swiss Francs

Assets	2009	2008	Liabilities	2009	2008
Gold & gold Claims	38.2	30.8	Banknotes	45	49.2
Foreign exchange	94.7	47.4	Current claims	45	37.2
Reserves with IMF	1.2	0.7	of domestic banks		
Int. Means of payment	5.6	0.2	Liabilities against govmt.	6.28,8	
Credits from foreign aid	0.3	0.3	Current claims of foreign	2.6	3.8
Claims from Repo Trans-		11.7	banks and institutions		
Actions in US dollars			Other current liabilities	3.3	1.4
Claims from Repo Trans-	36.2	50.3	Own papers issued	27.5	24.4
Actions in Swiss francs			Other non-current liabilities		29.4
Claims from franc swaps	2.7	50.4	Liabilities in foreign currenc.	1.5	0.4
Assets in Swiss francs	6.5	3.6	Compensation for SDR	5.3	
Credit granted to			claims allocated by IMF		
Stabilisation Fund	21	15.2	Capital & Reserves	75.8	59
			Including profits or losses		

Before the end of the gold standard the SNB like other central banks could become illiquid or even move into bankruptcy by being no longer able to convert the banknotes it had issued at demand at the fixed gold parity into gold coins or bullion. It thus was confronted by a limiting budget constraint hindering it to over-issue its notes or to grant too much credit to banks. This is no longer true with the discretionary paper money of pure credit money standards which we enjoy nowadays. Even if the value of its assets would fall, let's say, because of the credit granted to the Stabilization Fund and losses in the value of foreign exchange reserves denominated in euros and dollars, below that of its debts, no liquidity crisis or bankruptcy would arise. For the 45 billion francs in banknotes are now inconvertible, that is they are in fact non-interest-bearing credits by the public to the central bank with endless maturity. The same is true for the current claims in francs of domestic and foreign banks, since they can always be paid back by the SNB with its own freshly printed banknotes. A liquidity or bankruptcy problem can only arise if the assets denominated in foreign money had a smaller value than its obligations in these currencies.

The consequences of this analysis mean nothing else than that apart from assets and liabilities in foreign currencies there exists no longer any budget constraint for central banks. And internationally the leading central banks have also moved some distance to push out the latter budget restrictions by granting each other swap facilities in the tens of billions. As public choice economists we should thus not be surprised that politicians are now very keen to get control of central banks and to undermine their independence. For if they succeed they are themselves no longer limited by those uncomfortable budget constraints.

5. Are there any Escapes from the Undermining of Monetary Stability by Governments?

Carl Schmitt, a well-known German professor of public and constitutional law, who was an early adherent of the Nazi movement, once pointed out that

Souverän ist, wer über den Ausnahmezustand entscheidet.

(Schmitt 1993 [1922], p. 13)

which can be translated as: „Sovereign is he who decides on the state of emergency“ that is when laws can be changed and even constitutional rules be suspended because of the emergency declared. Thus the real power in a state is revealed by answering the question who has the power to suspend and perhaps even to change the constitution in an emergency. Actually two sub-questions emerge: First, who has the right or the power to declare an emergency. Second, who has the right or power to take the actions foreseen by or to be interpreted into the constitution.

It is my hypothesis that constitutions binding the hands of politicians and governments in normal times can be undermined in times of emergency. Indeed, there exists overwhelming support for this hypothesis in terms of empirical evidence. I have already mentioned above the abolishment of the gold standard because of World War I and the Great Depression. During the latter not only Britain abolished the gold standard, but president Roosevelt decided to devalue the gold parity in terms of dollars and even to forbid the possession of gold by American citizens. Even Switzerland which stuck to the old gold parity together with the other members of the gold bloc led by France until the devaluation in 1936, abolished the gold convertibility of its currency. And this though Article 39,6 of the Swiss Federal Constitution (SNB 1982, p. 380) said:

Der Bund kann die Einlöschungspflicht für Banknoten und andere gleichwertige Geldzeichen nicht aufheben und die Rechtsverbindlichkeit ihrer Annahme nicht aussprechen, ausgenommen in Kriegszeiten oder in Zeiten gestörter Währungsverhältnisse.

This means that the Federal Government is not allowed to abolish the convertibility of banknotes into gold except in times of war and disturbed currency relationships. Switzerland has thus suffered according to the government until the end of the 1990s for more than 50 years from disturbed currency relationships. Obviously the government in this case has been the Swiss sovereign by

pretending that a permanent state of emergency existed. This was done by issuing a simple executive order of the Federal Government of June 29, 1954 (SNB 1982, p. 423, Articles 1-2).

It should thus not be surprising first, that the independence of the monetary regime from governments has been much more threatened after the abolishment of the gold standard. I have shown in my book on *Monetary Regimes and Inflation* (2003) that all 30 hyperinflations except one and that, moreover, most other very high inflations occurred after 1914. And second, related to that, that constitutional and legal safeguards for central bank independence can be much more easily eroded by governments, who as sovereign declare a state of emergency than under an internationally established gold standard. Moreover, it should be recalled that this standard has been often imitated by the countries of the periphery, with the consequence that their inflations and devaluations were kept within much narrower bounds than after 1914.

Given these sobering conclusions let us ask which alternatives may be available to stabilize the monetary and financial system. We have seen that the gold standard and independent central banks have proved their merits for several decades, but fell victim to the sovereign declaring an emergency. It is true that one can strengthen the independence of central banks by turning them into currency boards safeguarded by the constitution. As is well-known, currency boards are only allowed to issue base money by either buying gold or foreign exchange of a stable currency. And such systems have worked well in several countries under difficult conditions, most recently in Estonia and Bulgaria (for a discussion of earlier cases see Hanke, Jonung and Schuler 1993). But it should be clear that they are also threatened by a demonetization of gold or the abolishment of the independence of the central bank issuing the currency on which they depend, not to speak of a removal of the currency board itself.

Another alternative proposed is the introduction of Free Banking, in which private banks would be allowed to issue banknotes besides creating deposits. Such a system would certainly remove the monetary system a greater distance from the government. And it has worked quite well for several decades in Scotland and also in Switzerland (Nedwed 1993, Selgin 1987, White 1984). But the regime of private banking was based in both cases on gold convertibility and was finally abolished in both countries by sovereign governments. Moreover, already in the 1870s private banks were forced by the Peruvian government to grant it credit in banknotes when it was facing bankruptcy. In exchange for these forced credits they were allowed to suspend the gold convertibility of their banknotes. Finally, it has been argued from a theoretical point of view that there exists still a gap in the theory of free banking, namely

that competitive banks can obtain economies of scale by pooling their reserves of high-powered money. ... This characteristic of banking would either prompt unregulated banks to merge into one institution, or if diseconomies of scale in other activities worked against this, to centralize their

reserve holdings with what would, in effect, become a banker's bank. (Laidler, 1992, p. 197)

Finally, instead of the gold standard a more general commodity standard with convertibility of banknotes and demand deposits into this commodity basket at a fixed parity has been proposed as an alternative. But quite apart from the question under which conditions there might be a chance for the introduction of such a system, an international agreement would be necessary for a world-wide acceptance of the same commodity basket. Once reached it might be more difficult for governments to abolish it because they would be isolated internationally, But an extended war or a deep world-wide economic crisis would offer a sufficient pretext for governments even in this case to get rid of the commodity standard by declaring a state of emergency.

References

- Angell, J. W. (1836): The 100 Per Cent Reserve Plan. *Quarterly Journal of Economics*, vol. 50.
- Bernholz, Peter (2003): *Monetary Regimes and Inflation. History, Economic and Political Relationships*. Cheltenham: Edward Elgar. Paperback edition 2006.
- Eucken, Walter (1952): *Grundsätze der Wirtschaftspolitik*: Ed. by Edith Eucken and K. Paul Hensel. Bern and Tübingen: Francke and J.C.B. Mohr (Paul Siebeck).
- Federal Reserve (2010): *Federal Reserve statistical release*, H.4.1. June 17.
- Graham, Benjamin (1937): *Storage and Stability*. New York and London: McGraw-Hill.
- Hanke, Steve H., Jonung, Lars and Schuler, Kurt (1993): *Russian Currency and Finance. A currency board approach to reform*. London and New York: Routledge.
- Hayek, Friedrich A. (1978): *Denationalizing Money. The Argument Refined*. London : Institute for Economic Affairs.
- Kindleberger, Charles P. (1978): *Manias, Panics and Crashes: A History of Financial Crises*. New York: Basic Books.
- Kornai, Janos (1971): *Anti-Equilibrium*. Amsterdam and London. North Holland.
- Laidler, David (1992): free banking: theory. In: Newman, Peter, Milgate, Murray and Eatwell, John (eds.): *The New Palgrave Dictionary of Money and Finance*. Vol 2, London: Macmillan, and New York: Stockton.
- Lutz, Friedrich A. (1936): Goldwährung und Wirtschaftsordnung. *Weltwirtschaftliches Archiv*, vol. 41.
- Nedwed, Harald (1992): *Notenbankenfreiheit. Theoretische Analyse und historische Erfahrungen aus der Schweiz im 19. Jahrhundert*. Basler Dissertation. Basel: Druckerei Ganzmann AG.
- Schmitt, Carl (1993/1922): *Politische Theologie*. 6th ed. Berlin: Duncker & Humblot.

Schweizerische Nationalbank, SNB (1982): *75 Jahre Schweizerische Nationalbank. Die Zeit von 1957 bis 1982*. Zürich.

Schweizerische Nationalbank, SNB (2010): Bilanz Stammhaus per 31. Dezember 2009.

http://www.snb.ch/de/i/about/annacc/id/snb_annac_balance.

Selgin, G. (1987): *The Theory of Free Banking*. Totowa, N.J.: Rowman and Littlefield.

White, L. H. (1984): *Free Banking in Britain. Theory, Experience and Debate 1800-1845*. Cambridge: Cambridge University Press.

Freiburger **Diskussionspapiere** zur Ordnungsökonomik

Freiburg **Discussion Papers** on Constitutional Economics

- 10/05 Bernholz, Peter:** Politics, Financial Crisis, Central Bank Constitution and Monetary Policy
- 10/04 Tietmeyer, Hans:** Soziale Marktwirtschaft in Deutschland - Entwicklungen und Erfahrungen
- 10/03 Vanberg, Viktor J.:** Freiheit und Verantwortung: Neurowissenschaftliche Erkenntnisse und ordnungsökonomische Folgerungen
- 10/02 Vanberg, Viktor J.:** Competition among Governments: The State's Two Roles in a Globalized World
- 10/01 Berghahn, Volker:** Ludwig Erhard, die Freiburger Schule und das 'Amerikanische Jahrhundert'
- 09/10 Dathe, Uwe:** Walter Euckens Weg zum Liberalismus (1918-1934)
- 09/9 Wohlgemuth, Michael:** Diagnosen der Moderne: Friedrich A. von Hayek
- 09/8 Bernhardt, Wolfgang:** Wirtschaftsethik auf Abwegen
- 09/7 Mäding, Heinrich:** Raumplanung in der Sozialen Marktwirtschaft: Ein Vortrag
- 09/6 Koenig, Andreas:** Verfassungsgerichte in der Demokratie bei Hayek und Posner
- 09/5 Berthold, Norbert / Brunner, Alexander:** Gibt es ein europäisches Sozialmodell?
- 09/4 Vanberg, Viktor J.:** Liberal Constitutionalism, Constitutional Liberalism and Democracy
- 09/3 Vanberg, Viktor J.:** Consumer Welfare, Total Welfare and Economic Freedom – On the Normative Foundations of Competition Policy
- 09/2 Goldschmidt, Nils:** Liberalismus als Kulturideal. Wilhelm Röpke und die kulturelle Ökonomik.
- 09/1 Bernhardt, Wolfgang:** Familienunternehmen in Zeiten der Krise – Nachhilfestunden von oder für Publikumsgesellschaften?
- 08/10 Borella, Sara:** EU-Migrationspolitik. Bremse statt Motor der Liberalisierung.
- 08/9 Wohlgemuth, Michael:** A European Social Model of State-Market Relations: The ethics of competition from a „neo-liberal“ perspective.
- 08/8 Vanberg, Viktor J.:** Markt und Staat in einer globalisierten Welt: Die ordnungsökonomische Perspektive.
- 08/7 Vanberg, Viktor J.:** Rationalität, Regelbefolgung und Emotionen: Zur Ökonomik moralischer Präferenzen. Veröffentlicht in: V. Vanberg: Wettbewerb und Regelordnung, Tübingen: Mohr, 2008, S. 241-268.
- 08/6 Vanberg, Viktor J.:** Die Ethik der Wettbewerbsordnung und die Versuchungen der Sozialen Marktwirtschaft
- 08/5 Wohlgemuth, Michael:** Europäische Ordnungspolitik
- 08/4 Löwisch, Manfred:** Staatlicher Mindestlohn rechtlich gesehen – Zu den gesetzgeberischen Anstrengungen in Sachen Mindestlohn
- 08/3 Ott, Notburga:** Wie sichert man die Zukunft der Familie?
- 08/2 Vanberg, Viktor J.:** Schumpeter and Mises as 'Austrian Economists'
- 08/1 Vanberg, Viktor J.:** The 'Science-as-Market' Analogy: A Constitutional Economics Perspective.
- 07/9 Wohlgemuth, Michael:** Learning through Institutional Competition. Veröffentlicht in: A. Bergh und R. Höijer (Hg.). Institutional Competition, Cheltenham: Edward Elgar, 2008, S. 67-89.
- 07/8 Zweynert, Joachim:** Die Entstehung ordnungsökonomischer Paradigmen – theoriegeschichtliche Betrachtungen.

- 07/7 Körner, Heiko:** Soziale Marktwirtschaft. Versuch einer pragmatischen Begründung.
- 07/6 Vanberg, Viktor J.:** Rational Choice, Preferences over Actions and Rule-Following Behavior.
- 07/5 Vanberg, Viktor J.:** Privatrechtsgesellschaft und ökonomische Theorie. Veröffentlicht in: K. Riesenhuber (Hg.) Privatrechtsgesellschaft – Entwicklung, Stand und Verfassung des Privatrechts, Tübingen: Mohr Siebeck, 2008, S. 131-162.
- 07/4 Goldschmidt, Nils / Rauchenschwandtner, Hermann:** The Philosophy of Social Market Economy: Michel Foucault's Analysis of Ordoliberalism.
- 07/3 Fuest, Clemens:** Sind unsere sozialen Sicherungssysteme generationengerecht?
- 07/2 Pelikan, Pavel:** Public Choice with Unequally Rational Individuals.
- 07/1 Voßwinkel, Jan:** Die (Un-)Ordnung des deutschen Föderalismus. Überlegungen zu einer konstitutionenökonomischen Analyse.
- 06/10 Schmidt, André:** Wie ökonomisch ist der „more economic approach“? Einige kritische Anmerkungen aus ordnungsökonomischer Sicht.
- 06/9 Vanberg, Viktor J.:** Individual Liberty and Political Institutions: On the Complementarity of Liberalism and Democracy. Veröffentlicht in: Journal of Institutional Economics, Vol. 4, Nr. 2, 2008, S. 139-161.
- 06/8 Goldschmidt, Nils:** Ein „sozial temperierter Kapitalismus“? – Götz Briefs und die Begründung einer sozialetisch fundierten Theorie von Markt und Gesellschaft. Veröffentlicht in: Freiburger Universitätsblätter 42, Heft 173, 2006, S. 59-77.
- 06/7 Wohlgemuth, Michael / Brandi, Clara:** Strategies of Flexible Integration and Enlargement of the European Union. A Club-theoretical and Constitutional Economics Perspective. Veröffentlicht in: Varwick, J. / Lang. K.O. (Eds.): European Neighbourhood Policy, Opladen: Budrich, 2007, S. 159-180.
- 06/6 Vanberg, Viktor J.:** Corporate Social Responsibility and the “Game of Catallaxy“: The Perspective of Constitutional Economics. Veröffentlicht in: Constitutional Political Economy, Vol. 18, 2007, S. 199-222.
- 06/5 Pelikan, Pavel:** Markets vs. Government when Rationality is Unequally Bounded: Some Consequences of Cognitive Inequalities for Theory and Policy.
- 06/4 Goldschmidt, Nils:** Kann oder soll es Sektoren geben, die dem Markt entzogen werden und gibt es in dieser Frage einen (unüberbrückbaren) Hiatus zwischen ‚sozialetischer‘ und ‚ökonomischer‘ Perspektive? Veröffentlicht in: D. Aufderheide, M. Dabrowski (Hrsg.): Markt und Wettbewerb in der Sozialwirtschaft. Wirtschaftsethische Perspektiven für den Pflegesektor, Berlin: Duncker & Humblot 2007, S. 53-81.
- 06/3 Marx, Reinhard:** Wirtschaftsliberalismus und Katholische Soziallehre.
- 06/2 Vanberg, Viktor J.:** Democracy, Citizen Sovereignty and Constitutional Economics. Veröffentlicht in: Constitutional Political Economy Volume 11, Number 1, März 2000, S. 87-112 und in: Casas Pardo, J., Schwartz, P.(Hg.): Public Choice and the Challenges of Democracy, Cheltenham: Edward Elgar, 2007, S. 101-120.
- 06/1 Wohlgemuth, Michael:** Demokratie und Marktwirtschaft als Bedingungen für sozialen Fortschritt. Veröffentlicht in: R. Clapham, G. Schwarz (Hrsg.): Die Fortschrittsidee und die Marktwirtschaft, Zürich: Verlag Neue Zürcher Zeitung 2006, S. 131-162.
- 05/13 Kersting, Wolfgang:** Der liberale Liberalismus. Notwendige Abgrenzungen. In erweiterter Fassung veröffentlicht als: Beiträge zur Ordnungstheorie und Ordnungspolitik Nr. 173, Tübingen: Mohr Siebeck 2006.
- 05/12 Vanberg, Viktor J.:** Der Markt als kreativer Prozess: Die Ökonomik ist keine zweite Physik. Veröffentlicht in: G. Abel (Hrsg.): Kreativität. XX. Deutscher Kongress für Philosophie. Kolloquiumsbeiträge, Hamburg: Meiner 2006, S. 1101-1128.
- 05/11 Vanberg, Viktor J.:** Marktwirtschaft und Gerechtigkeit. Zu F.A. Hayeks Kritik am Konzept der „sozialen Gerechtigkeit“. Veröffentlicht in: Jahrbuch Normative und institutio-

nelle Grundfragen der Ökonomik, Bd. 5: „Soziale Sicherung in Marktgesellschaften“, hrsg. von M. Held, G. Kubon-Gilke, R. Storn, Marburg: Metropolis 2006, S. 39-69.

- 05/10 Goldschmidt, Nils:** Ist Gier gut? Ökonomisches Selbstinteresse zwischen Maßlosigkeit und Bescheidenheit. Veröffentlicht in: U. Mummert, F.L. Sell (Hrsg.): Emotionen, Markt und Moral, Münster: Lit 2005, S. 289-313.
- 05/9 Wohlgemuth, Michael:** Politik und Emotionen: Emotionale Politikgrundlagen und Politiken indirekter Emotionssteuerung. Veröffentlicht in: U. Mummert, F.L. Sell (Hrsg.): Emotionen, Markt und Moral, Münster: Lit 2005, S. 359-392.
- 05/8 Müller, Klaus-Peter / Weber, Manfred:** Versagt die soziale Marktwirtschaft? – Deutsche Irrtümer.
- 05/7 Borella, Sara:** Political reform from a constitutional economics perspective: a hurdle-race. The case of migration politics in Germany.
- 05/6 Körner, Heiko:** Walter Eucken – Karl Schiller: Unterschiedliche Wege zur Ordnungspolitik.
- 05/5 Vanberg, Viktor J.:** Das Paradoxon der Marktwirtschaft: Die Verfassung des Marktes und das Problem der „sozialen Sicherheit“. Veröffentlicht in: H. Leipold, D. Wentzel (Hrsg.): Ordnungsökonomik als aktuelle Herausforderung, Stuttgart: Lucius & Lucius 2005, S. 51-67.
- 05/4 Weizsäcker, C. Christian von:** Hayek und Keynes: Eine Synthese. In veränderter Fassung veröffentlicht in: ORDO, Bd. 56, 2005, S. 95-111.
- 05/3 Zweynert, Joachim / Goldschmidt, Nils:** The Two Transitions in Central and Eastern Europe and the Relation between Path Dependent and Politically Implemented Institutional Change. In veränderter Fassung veröffentlicht in: Journal of Economic Issues, Vol. 40, 2006, S. 895-918.
- 05/2 Vanberg, Viktor J.:** Auch Staaten tut Wettbewerb gut: Eine Replik auf Paul Kirchhof. Veröffentlicht in: ORDO, Bd. 56, 2005, S. 47-53.
- 05/1 Eith, Ulrich / Goldschmidt, Nils:** Zwischen Zustimmungsfähigkeit und tatsächlicher Zustimmung: Kriterien für Reformpolitik aus ordnungsökonomischer und politikwissenschaftlicher Perspektive. Veröffentlicht in: D. Haubner, E. Mezger, H. Schwengel (Hrsg.): Agendasetting und Reformpolitik. Strategische Kommunikation zwischen verschiedenen Welten, Marburg: Metropolis 2005, S. 51-70.
- 04/15 Zintl, Reinhard:** Zur Reform des Verbändestaates. Veröffentlicht in: M. Wohlgemuth (Hrsg.): Spielregeln für eine bessere Politik. Reformblockaden überwinden – Leistungswettbewerb fördern, Freiburg, Basel, Wien 2005, S. 183-201.
- 04/14 Blankart, Charles B.:** Reform des föderalen Systems. Veröffentlicht in: M. Wohlgemuth (Hrsg.): Spielregeln für eine bessere Politik. Reformblockaden überwinden – Leistungswettbewerb fördern, Freiburg, Basel, Wien 2005, S. 135-158.
- 04/13 Arnim, Hans Herbert von:** Reformen des deutschen Parteiensystems. Veröffentlicht in: M. Wohlgemuth (Hrsg.): Spielregeln für eine bessere Politik. Reformblockaden überwinden – Leistungswettbewerb fördern, Freiburg, Basel, Wien 2005, S. 87-117.
- 04/12 Goldschmidt, Nils:** Alfred Müller-Armack and Ludwig Erhard: Social Market Liberalism. Veröffentlicht in: The History of Liberalism in Europe, Brochure Nr. 21, Paris 2004: CREA and CREPHE 2004.
- 04/11 Vanberg, Viktor J.:** The Freiburg School: Walter Eucken and Ordoliberalism.
- 04/10 Vanberg, Viktor J.:** Market and State: The Perspective of Constitutional Political Economy. Veröffentlicht in: Journal of Institutional Economics, Vol. 1 (1), 2005, p. 23-49.
- 04/9 Goldschmidt, Nils / Klinckowstroem, Wendula Gräfin v.:** Elisabeth Liefmann-Keil. Eine frühe Ordoliberale in dunkler Zeit. Veröffentlicht in: N. Goldschmidt (Hrsg.): Wirtschaft, Politik und Freiheit. Freiburger Wirtschaftswissenschaftler und der Widerstand, Tübingen: Mohr Siebeck 2005, S. 177-204.
- 04/8 Albert, Hans:** Wirtschaft, Politik und Freiheit. Das Freiburger Erbe. Veröffentlicht in: N. Goldschmidt (Hrsg.), Wirtschaft, Politik und Freiheit. Freiburger Wirtschaftswissenschaftler und der Widerstand, Tübingen: Mohr Siebeck 2005, S. 405-419.

- 04/7 Wohlgemuth, Michael / Sideras, Jörn:** Globalisability of Universalisability? How to apply the Generality Principle and Constitutionalism internationally.
- 04/6 Vanberg, Viktor J.:** Sozialstaatsreform und ‚soziale Gerechtigkeit‘. Veröffentlicht in: Politische Vierteljahresschrift, Jg. 45, 2004, S. 173-180.
- 04/5 Frey, Bruno S.:** Direct Democracy for a Living Constitution. In deutscher Übersetzung veröffentlicht in: M. Wohlgemuth (Hrsg.): Spielregeln für eine bessere Politik. Reformblockaden überwinden – Leistungswettbewerb fördern, Freiburg, Basel, Wien 2005, S. 26-86.
- 04/4 Commun, Patricia:** Erhards Bekehrung zum Ordoliberalismus: Die grundlegende Bedeutung des wirtschaftspolitischen Diskurses in Umbruchszeiten.
- 04/3 Vanberg, Viktor J.:** Austrian Economics, Evolutionary Psychology and Methodological Dualism: Subjectivism Reconsidered. Veröffentlicht in: R. Koppl (ed.): Evolutionary Psychology and Economic Theory (Advances in Austrian Economics, Vol. 7), Amsterdam et al.: Elsevier 2004, p. 155-199.
- 04/2 Vaubel, Roland:** Reformen der europäischen Politikverflechtung. Veröffentlicht in: M. Wohlgemuth (Hrsg.): Spielregeln für eine bessere Politik. Reformblockaden überwinden – Leistungswettbewerb fördern, Freiburg, Basel, Wien 2005, S. 118-134.
- 04/1 Wohlgemuth, Michael:** The Communicative Character of Capitalistic Competition. A Hayekian response to the Habermasian challenge. Veröffentlicht in: The Independent Review, Vol. 10 (1), 2005, p. 83-115.
- 03/10 Goldschmidt, Nils:** Zur Theorie der Sozialpolitik. Implikationen aus ordnungsökonomischer Perspektive. Veröffentlicht in: N. Goldschmidt, M. Wohlgemuth (Hrsg.): Die Zukunft der Sozialen Marktwirtschaft. Sozialethische und ordnungsökonomische Grundlagen, Tübingen: Mohr Siebeck 2004, S. 63-95.
- 03/9 Buchanan, James M.:** Same Players, Different Game: How Better Rules Make Better Politics. In deutscher Übersetzung veröffentlicht in: M. Wohlgemuth (Hrsg.): Spielregeln für eine bessere Politik. Reformblockaden überwinden – Leistungswettbewerb fördern, Freiburg, Basel, Wien 2005, S. 25-35.
- 03/8 Dathe, Uwe / Goldschmidt, Nils:** Wie der Vater, so der Sohn? Neuere Erkenntnisse zu Walter Euckens Leben und Werk anhand des Nachlasses von Rudolf Eucken in Jena. Veröffentlicht in: ORDO, Bd. 54, 2003, S. 49-74.
- 03/7 Vanberg, Viktor J.:** The Status Quo in Contractarian Constitutionalist Perspective. Veröffentlicht in: Constitutional Political Economy, Vol. 15, 2004, p. 153-170.
- 03/6 Vanberg, Viktor J.:** Bürgersouveränität und wettbewerblicher Föderalismus: Das Beispiel der EU. Veröffentlicht in: W. Schäfer (Hrsg.): Zukunftsprobleme der europäischen Wirtschaftsverfassung, Berlin: Duncker & Humblot 2004, S. 51-86.
- 03/5 Pelikan, Pavel:** Bringing Institutions into Evolutionary Economics: Another View with Links to Changes in Physical and Social Technologies. Veröffentlicht in: Journal of Evolutionary Economics, Vol. 13, 2003, p. 237-258.
- 03/4 Nau, Heino Heinrich:** Reziprozität, Eliminierung oder Fixierung? Kulturkonzepte in den Wirtschaftswissenschaften im Wandel. Veröffentlicht in: G. Blümle u.a. (Hrsg.): Perspektiven einer kulturellen Ökonomik, Münster: Lit-Verlag 2004, S. 249-269.
- 03/3 Vanberg, Viktor J.:** The Rationality Postulate in Economics: Its Ambiguity, its Deficiency and its Evolutionary Alternative. Veröffentlicht in: Journal of Economic Methodology, Vol. 11, 2004, p. 1-29.
- 03/2 Goldschmidt, Nils / Berndt, Arnold:** Leonhard Miksch (1901–1950) – A Forgotten Member of the Freiburg School. Veröffentlicht in: American Journal of Economics and Sociology, Vol. 64, 2005, p. 973-998.
- 03/1 Vanberg, Viktor J.:** Die Verfassung der Freiheit: Zum Verhältnis von Liberalismus und Demokratie. Veröffentlicht in: N. Berthold, E. Gundel (Hrsg.): Theorie der sozialen Ordnungspolitik, Stuttgart: Lucius & Lucius 2003, S. 35-51.