

### ToolTech 2013:

### What You Need to Know About the Economy

### 4-23-2013 Jim Cunningham Department of Finance and Business Economics University of Southern California



- 1. The State of the US Economy
- a. Real GDP vs. Trend GDP (average long term trend growth since 1870)



- b. Real GDP Growth, 2006-2012
- c. Unemployment in the Great Recession and the Anemic Recovery
- d. Long Term Unemployment
- e. Discouraged Workers
- f. Labor Force Participation Rate
- g. The Great Recession versus Other Post-WWII Recessions
- h. Index of Leading Economic Indicators
- i. How Good are Economists at Forecasting?
- j. How is the U.S. Economy Doing?
- 2. How Is the U.S. Auto Industry—Cars and Parts—Doing?
- 3. Investment, Saving and Monetary Policy
- 4. Rules vs. Discretion: Dueling Monetary Policies
- 5. The Best Books to Read















# Long-Term Unemployment at Record Levels

Number unemployed for more than 26 weeks as a share of total unemployed





















The ten components of **The Conference Board Leading Economic Index**® for the U.S. include:

- 1. Average weekly hours, manufacturing
- 2. Average weekly initial claims for unemployment insurance
- 3. Manufacturers' new orders, consumer goods and materials
- 4. Institute for Supply Management Index of New Orders
- 5. Manufacturers' new orders, nondefense capital goods excluding aircraft orders
- 6. Building permits, new private housing units
- 7. Stock prices, 500 common stocks
- 8. Leading Credit Index™
- 9. Interest rate spread, 10-year Treasury bonds less federal funds
- 10. Average consumer expectations for business conditions





## Economists are Not Forecasting a Recession... But Economists are Not Good at Forecasting



#### Intrade Odds for a Recession vs Consensus Economist Odds







### How is the US Economy doing?

### Good News: It has been in recovery for years

Bad News: There are no signs of growth

It's like...









# 2. How Is the U.S. Auto Industry --Cars and Parts--Doing?

- a. U.S. Auto Industry Prospects: New and Used Autos and Auto Parts
- b. Personal Consumption Expenditures on Autos and Parts
- c. Prices in the Industry
- d. Auto Industry Employment
- e. Auto Industry Employment Growth in the Recovery
- f. Auto Parts Firms Stock Prices
- g. Did the TARP Bailout Prevent Bankruptcy of Chrysler and GM?
- h. Cash for Clunkers Program



University of Southern California



# U.S. Auto Industry Prospects: New Cars, Used Cars, and Auto Parts







#### Table 2.4.5. Personal Consumption Expenditures by Type of Product

Last Revised on: August 02, 2012





Table 2.3.7. Percent Change from Preceding Period in Prices forPersonal Consumption Expenditures by Major Type of Product[Quarters seasonally adjusted at annual rates] Seasonally adjusted at annualrates. Last Revised on: March 28, 2013 - Next Release Date April 26, 2013



Motor Vehicles and Parts Source: Bureau of Economic Analysis NIPA





#### Annual Auto Industry Employment Change: 1995-2012\*



\* Change in 2012 employment is YTD to June







#### Dow Jones U.S. Auto Parts Stock Price Index 1/19/2013- 4/19/2013 (versus the S & P 500 in blue)







TARP (the Troubled Asset Relief Program) was originally intended to bailout financial institutions which posed a systemic risk to the financial system. It was extended to other politically connected firms, such as Chrysler and General Motors. TARP funds delayed, but did not prevent, their bankruptcy filings on April 30 and June 1, 2009.

United States	Bankruptey Court				Volum	tary Peti	Lion 🦾
	trict of New York			Par par st	23:2.2		
Name of Debtor (if individual, enter Last, First, Middl Chrysler Realty Company LLC	Na	Name of Joint Debtor (Spouse) (Last, First, Middle):					
All Other Names used by the Debtor in the last 8 years	Ali	All Other Names used by the Joint Debtor in the last 8 years					
(include married, maiden, and trade names): See Schedule 1 Attached	(in	(include married, maiden, and trade names):					
Last four digits of Soc. Sec. or Individual-Taxpayer I. (if more than one, state all): 38-1852134	ie EIN. Las EIN	Last four digits of Soc. Sec. or Individual-Taxpayer I.D. (ITIN) No./Complet EIN. (if more than one, state all):					
Street Address of Debtor (No. & Street, City, State & )	Lip Code):	Stre	eet Address of Joi	nt Debtor (No. 8	& Street, City,	State & Z	ip Code):
1000 Chrysler Drive							
Auburn Hills, MI						-	
	ZIP CODE 48						CODE
County of Residence or of the Principal Place of Busin Oakland	ICSS:	Cos	unty of Residence	or of the Princip	pal Place of B	usiness:	
Mailing Address of Debtor (if different from street add	ress):	Ma	iling Address of I	Sebtor (if differe	nt from street	address):	
	ZIP CODE					ZIP	CODE
Location of Principal Assets of Business Debtor (if dil	lerent from street addr	ess above):					
See Schedule 1 Attached							ZIP CODE
Type of Debtor (Form of Organization)	Nature of Bu (Check and )	siness	C	hapter of Bank The Petition			
	Health Care Busines					~ one DOK	,
	Single Asset Real Es	tate as defined in					
	11 Ú.S.C. § 101 (51) Railroad	3)	Chapter 11 Main Proceeding Chapter 12 Chapter 15 Petition for				
	Stockbroker		Chapter 13 Recognition of a Foreign Nonmain Proceeding				
Other (If debtor is not one of the above entities, check	Commodity Breker						
this box and provide the information requested below.)	Clearing Bank		Nature of Debts (Check one box)				
	Other Automotive Man		Debts are primarily consumer Debts are primarily				
	Tax-Exempt		debts, defined	in 11 U.S.C.	-	business del	as.
	(Check Box, if an	plicable)	§ 191(3) as "incurred by an Individual primarily responsible for a Pentonal, family, or household purpose,"				
	Debtor is a tax-exem under Title 26 of the	United States	Personal, Jami	ly, er household p	mboae'.		
Filing Fee (Check one	Code (the Internal Re	everage Code,)		Chan	tar 11 Debto		
Full Filing Pee attached.		Chapter 11 Debtors Check one box:					
Filing For to be paid in installments (Applicable to individ	imed	<ul> <li>Debtor is a small business debtor as defined in 11 U.S.C. § 101(51D).</li> <li>Debtor is not a small business debtor as defined in 11 U.S.C. § 101(51D).</li> </ul>					
application for the court's consideration certifying that the	dobtor is unable to pay for	e except in	Check if:	a sinan ousiness o	coror its desined	1011 0.53	- g tot(stp).
installments. Rule 1006(b). See Official Form 3A. Filing Fee waiver requested (Applicable to chapter 7 indiv	dark and a Marganish	dan d	Debtor's app	egate noncontinge iliates) are less tha	nt liquidated de	bts (excludi	ng debts owed
application for the court's consideration. See Official For	n 3B.	ngwa		inaces) are less that			
			Check all applicable boxes:				
			<ul> <li>A plan is being filed with this Petition.</li> <li>Acceptances of the plan were solicited prepetition from one or more classes of</li> </ul>				
			creditors, in a	coordance with 11	U.S.C. § 1126	(b).	w more classe
tatistical/Administrative Information						THUS SPAC	E IS FOR COURT ONLY
Debtor estimates that funds will be available for distribut Debtor estimates that, after any exempt property is exclu			a will be no for to	ailable for			
distribution to unsecured creditors.	and additionalive ex	Periodes Joseph Electro	e and we no realds at				
stimated Number of Creditors	_						- · ·
49 50-99 100-199 200-999 1,000-	5,001-	10,001-	25,001-	50,001-	E Over		67
5,000	10,000	25,000	50,000	100,000	100,000	200	0
stimated Assets	п		0	0	m C	20	22
0 to \$50,001 to \$100,001 to \$500,001 to \$1,000	001 to \$10,000,001 to	\$50,000,001 to	\$100,000,001 to	\$500,000,001 to	More than	AP12	Nin
50,000 \$100,000 \$500,000 \$1 million \$10 mi stimated Liabilities	llion \$50 million	\$100 million	\$\$00 million	\$1 billion	\$1 billion	w	2
			D		0 ]		3m
	001 ra \$10,000,001 ra	\$50,000,001 to	\$100.000.001 to	\$500,000,001 to	More than	- 0	c; U
0 to \$50,001 to \$100,001 to \$500,001 to \$1,000 50,000 \$100,000 \$500,000 \$1 million \$10 mi	Ilion \$50 million	\$100 million	\$500 million	\$1 billion	\$1 bittion		~<

		red 06/01/09 07:57	:51 M	Main Document					
United States Bankruptcy (Rg Southern District of New York				N 24		Voluntary Petition			
Name of Debtor (if individual, enter Last, Fint, GENERAL MOTORS CORPO	Na	Name of Joint Debtor (Spouse) (Last, First, Middle): N/A							
All Other Names and by the Debar in the last 8 years (include married, an idea married) See Schefulle 1: A trached Last four digits of Soc. Soc. or Individual-Tanpager 1D. (ITDN) Na/Complete EDN (if more than ore, state dif): 33-647572515				All Otter Names und by the Joint Debter in the lust B years (include married, maidon, and its de names): N/A Last four digits of Soc. Soc. or Individual-Taqueger LD. (ITTN) Nas/Complete EDN(of me func one, aster all): N/A					
Detroit, Michigan		ZIP CODE 48265-3000					ZIP CO DE		
County of Residence or of the Principal Place of	Co	County of Residence or of the Principal Place of Basiness: N/A							
Mailing Address of Debtor (if different from str	Ma	Mailing Address of Joint Debtor (if different from street address): N/A							
		ZIP CODE	-1~	~			ZIP CODE		
Location of Principal Assets of Business Debto	r (if different f		) }						
767 Fifth Avenue, New York, N			-				ZIP CODE 10153		
Type of Debtor (Form of Organization)	1	Nature of Business (Check anglos.)		Chapter of	Bankruptcy C	ode Under W	Thich		
(Click see box) baliddal (holds-boir Dotton) See Table D a rege? 2 d do frem. C Coporties (neiddad LLC and LLP) ☐ Paters Rig Coller (7 dottor in soft one of the above onity below.)	T = 112.5.C (p) (c (8)). A starter T = 112.5.C (p) (c (8)). A starter			initialized primety for a prevent, forthy, or bottly present. Check one her: Debries and thereas debrares and multi 11 U.S.C.J. 110(10), Debries and thereas debrares and thereas 11 U.S.C.J. 110(10), Debrare are and becausedness and multi 11 U.S.C.J. 110(10), Debrare are and becausedness and because and the second Debrare are and becausedness and because and because and becaused and the second Debrare are and becaused and and the second and the sec					
Contribute The Texanchat     Priting Texanchat     Mariatic and again plantimetry opplicable in     Mariatic again again and again ag	heck one boo individuals only iteration carify i Form 3A. 7 int biduals onl	(the Internal Revenue Co k) ) ng that the debtor is unable to y). Must attach signed appli	ode). Iopay ita	Debtor in a mall hurinon data     Debtor in not a renal hurinon     Debtor is not a renal hurinon     D	inter as defined i tingent liquidat as than \$2,190, his petition. are solicited are	1 U.S.C § 101(1 in 11 U.S.C. § 10 in debts (excl 000. 	n(51D). Iuding debts owed to one or more classes of CRENTFOR COURT UN		
<ul> <li>Patt Fing Texanched</li> <li>Patt Fing Texanched</li> <li>Hing Texo hopk in instantance (applicable to base status) signal applications for the court' run excarpt in instantant. Takin 2000; Sin C (Hinis)</li> <li>Pithing Tex understand and (applicable to charger for even's emotionation. See Official Form 30.</li> </ul>	heck one boo individuals only identics cardly Frem 3.4. 7 intividuals onl distribution to u	(the Internal Revenue Co () ) ng that the deterris unables y). Must stack-signal apple mecuned creditors.	opay ila cation for	Deborin a real busines data     Deborin area emil busines data     Deborin sea emil busines     Deborin segregate noncom     insidem or al filiato) ser lo      Deborin segregate noncom     insidem or al filiato) ser lo      Deborin segregate noncom     insidem or al filiato     Aceptanes of the plane serve     orediters, in accontance with	inter as defined i tingent liquidat as than \$2,190, his petition. are solicited are	1 U.S.C § 101(1 in 11 U.S.C. § 10 in debts (excl 000. 	n(51D). Iuding debts owed to one or more classes of CRENTFOR COURT UN		
EXT DEF The transmitted     The TF reg transmitted     The TF reg transmitted     The TF reg transmitted in the transmitted regarding the theory term     The transmitted regarding the theory term     The transmitted regarding the transmitted register to the transmitted regarding the transmitted reg	heck one box individuals only individuals only i Form 3.4. 7 intividuals only distribution to u is excludied and k)	(he Internal Revenue Co () ) getate the deteorie availets (y). Most statch signed appli- meaned creditors, administrative expenses paid	nde). 10 pay ille 12 cation for 1, than will b	Deber is not a backet of backet     Deber is not and backet     Deber is not and backet     Deber is not any specific scores     insider or affinitely set b     Ceheck all applicable boreses     Acceptate or of the plas w     ordinary, in accordance with     any finds within for	ebtor as defined i ting cut liquida iss than \$2,190,0 his polition. are solicited pro- th 11 U.S.C. §	1 U.S.C § 101(1 in 11 U.S.C. § 10 in debts (excl 000. 	n(51D). Iuding debts owed to one or more classes of CRENTFOR COURT UN		
20 Pol TTRg Two star-ball     The TTRg Two star-ball     The TTRg Two star-ball is institutioned (polystable) is enabled and institutioned (polystable). See Official Item 38.     The TTRg Transmission. Real Official Item 38.     Start Stafe al Admin Isizerative Laforem at these     Debre attimute the 4 start = 11 howeakth for     Debre attimute the 4 howeakth for     Debre attim	heck one boo individued only distribution contribution 1 Perm 3.4. 7 ind Miduals col distribution to u is excluded and	the Internal Revenue Ca ) ) ) ) ) ) ) ) ) Must elach signed apple neurod croßion. admin kinsthe engenwegnid 	opay ila cation for	Deborin a real busines data     Deborin area emil busines data     Deborin sea emil busines     Deborin segregate noncom     insidem or al filiato) ser lo      Deborin segregate noncom     insidem or al filiato) ser lo      Deborin segregate noncom     insidem or al filiato     Aceptanes of the plane serve     orediters, in accontance with	inter as defined i tingent liquidat as than \$2,190, his petition. are solicited are	1 U.S.C § 101(1 in 11 U.S.C. § 10 in debts (excl 000. 	n(51D). Iuding debts owed to one or more classes of CRENTFOR COURT UN		
Notifier Tage to exclude           The processing of the constraints of program in the constraint of the constraint o	heck one boo individuals only individuals only individuals only individuals only distribution to u is excluded and 9 1,000- 5,000	the Internal Revenue Co     ()     )     ng that the deterris unders     yy). Most attacht signed appl     mecantel creditors.     administrative appeneaupid	dc). opay fin cation for (, than will b 10,001- 25,000	Check II: any official second se	where as defined in ring cet liquids us than \$2,190,1 his petition. mession of the second second second h 11 U.S.C. § Door 100,000	1 U.S.C § 101(1 in 11 U.S.C. § 10 in debts (excl 000. 	n(51D). Iuding debts owed to one or more classes of CRENTFOR COURT UN		
Control of the second sec	hack one boo inde titude only identification contribu- tions 34. 7 ind biduals col 4 intribution to u is excluded and (i) 9 1,000- 9 1,000- 9 1,000- 9 1,000-	the Internal Revenue Ca ) ) ) ) ) ) ) ) ) ) ) the field field field is a state interviewer ) ) ) ) ) ) ) ) ) ) ) ) )	o pay ile cation for i, then will h	Deburs in and human shift     Deburs in and human shift     Deburs in agergate noncombined on a shift of	inter as defined i ting cut liquida as than \$2,190,0 his petition. we solicited pro- th 11 U.S.C. §	1 U.S.C § 101(1 in 11 U.S.C. § 10 in debts (excl 000. 	n(51D). Iuding debts owed to one or more classes of CRENTFOR COURT UN		

NY2:4991951\11\16\_ZZ11LDOC\72240.0635



# Cash for Clunkers Program

### Cash for Clunkers

Get all the info you need about the new CARS program and how to avoid scams.

Visit the official Government website at cars.gov





The subsidy to buy new cars—and scrap old cars—had short term and long term effects.

Short term, there was a **temporary boost to new car sales**. This boost ended abruptly when the program ended on August 25, 2009, after about a month. Effectively, it moved sales of new cars into the period when the program was in effect, and had little net long term effect on sales of new cars.

Another effect was that **used cars in good running condition were scrapped**. They were not resold and maintained. They were destroyed.

That increased the price of used cars, and the lack of spare parts made it more expensive to maintain them.



- 3. Investment, Saving and Monetary Policy
- a. Government Income vs. Expenditures
- b. The Fiscal Cliff
- c. Successful and Unsuccessful Ways of Dealing with Deficits
- d. Chairman Bernanke's Discretionary Monetary Policy
- e. Investment and Saving in the Market for Credit: Change Monetary Policy and You Change the Demand for Investment
- f. Why No Robust Recovery? Lack of Investment
- g. Relationship between Private Sector Investment and Unemployment
- h. Why No Inflation, No Investment? Excess Reserves
- i. Bank Financial Stress Index
- 4. Rules vs. Discretion: Dueling Monetary Policies
- j. Chairman Bernanke's Activist (Discretionary) Policy vs. Rules Based Policy (Friedman, Taylor)
- k. The Taylor Curve and the Taylor Rule
- I. Departure from the Rules Policy and the Financial Crisis
- m. Personnel is Policy: Who Will be Making Monetary Policy?
- n. Conclusions
- 5. The Best Books to Read



# Government Income vs Expenditures



Source: Bureau of Economic Analysis

Ol American Bankers Association



# **The Fiscal Cliff**



**The Fiscal Cliff** is the latest attempt to reduce the American Federal budget deficit, by a combination of tax increases and spending cuts.

Most of the economic impact of the fiscal cliff comes from tax increases, primarily the expiration of the Bush tax cuts for upper income households and an increase in the capital gains tax.

The historical record indicates that the **composition of the budget reform matters greatly**. Economists (Alesina and Ardagna) at Harvard looked at more than 100 attempts in 21 OECD nations (rich countries) to cut the ratio of debt to GDP in 1970-2007.

They found that **successful debt reduction program were those that predominantly cut government spending**.

Unsuccessful programs were ones that increased taxes—like the impending fiscal cliff.







### The empirical evidence **does not support the conventional wisdom that spending cuts are bad for the economy**.

Unemployment compensation, which is extended by the fiscal cliff deal, is linked to higher unemployment duration.

But the empirical evidence does support the idea that **tax increases are bad for the economy**.

Tax increases on "the rich" (individuals making more than \$400,000, or couples making more than \$450,000) from marginal rates of 35% to 39.6% will harm the recovery because they reduce investment.

The American Taxpayer Relief Act of 2012 (the official name of the fiscal cliff deal) also raises the capital gains tax from 15% to 20% for most taxpayers. This is very likely to deter investment— and low investment is a key reason why the recovery has been the worst on record since the Depression.



### Successful and Unsuccessful Ways of Dealing with Deficits



Veronique de Rugy, "The Facts About Spending Cuts, the Debt, and GDP"

As you can see in this chart [next slide], in cases of **successful fiscal adjustments**—defined by the cumulative reduction in debt-to-GDP ratio three years after fiscal adjustment greater than 4.5 percentage **points spending as a share of GDP fell by about 2 percentage points** while **revenue also fell by half a percentage point** (left bars).

On the other hand, **unsuccessful fiscal adjustment packages** cumulative increases in debt-to-GDP ratio—were made of **smaller spending reductions** (only 0.8 percentage-point reduction) and **large revenue increases** (right bars).

The most recent deal was entirely tax increases, and no spending cuts. This is **likely to fail**, either to close the deficit or to help the economy recover, based on historical precedents.











### Chairman Bernanke's Discretionary Monetary Policy

Critics of Federal Reserve Chairman Ben Bernanke allege that his monetary policy is one of excessive liquidity.

Nominal interest rates have been near Zero (QE1, QE2, QE3) but have not resulted in a rebound in investment.

Advocates of a return to a rules based monetary policy cite an increase in uncertainty stemming from discretionary policy.



### Investment and Saving in the Market for Credit: Change Monetary Policy and You Change the Demand for Investment

The Market for Credit, like all markets, has Supply and Demand. Savings is the Supply Curve. Investment is the Demand Curve.





#### Why has there been no robust recovery? Lack of Investment



If investment I doesn't grow, neither will capital stock K, and thus neither will the demand for labor grow, or the GDP.

We are in the Great Recession (or its aftermath, a jobless recovery), **because of a lack of investment**.

This may be due to **uncertainty** about the economic climate: What will happen in the **Eurozone**, or China? There is great uncertainty about the implementation of the Patient Protection and Affordable Care Act (Obamacare), and how it could affect the cost of hiring.

**Discretionary monetary policy** creates uncertainty about interest rates and inflation.

Fiscal tax cliff? It could also add to uncertainty, harm investment.







Figure 3: Relationship Between Investment and Unemployment

Above are graphs from the NIPA (John B. Taylor, 2011) showing the relationship between U.S. unemployment and the ratio of net fixed investment to U.S. GDP.



# **Excess Reserves**



If banks are not lending, what are they doing with their deposits? They are holding reserves in excess of their required ratio of deposits.

Excess reserves soared, in part as a precaution against bank runs, and in major part as a response to the new regulation (October 9, 2008) under which the Federal Reserve paid interest on reserves held with it, whether required or in excess of the requirement. It was a riskless way to earn a return.

This is money—more than a trillion dollars-- that was not lent to Main Street. It helps explain why there has been a huge increase in money created by the Fed, without inflation.









### Bank Financial Stress Index, 1994-2013







## 4. Rules vs. Discretion: Dueling Monetary Policies



**Monetary Policy** matters greatly. Chairman Bernanke's **QE3** is one in a continuing program of **activist policy** measures. The theory is that an activist Fed can respond to the latest macroeconomic developments by changing policy quickly.

An alternative to this is a **Rules Based Monetary Policy**. The theory here is that investment will be greater when investors can predict what the monetary policy will be.

More Certainty  $\rightarrow$  More Investment  $\rightarrow$  More Productive Workers  $\rightarrow$  Less Unemployment

Perhaps the most successful rules based policy is the Taylor Rule, which has been applied by central banks in many countries. It gives predictability to monetary policy, which fosters investment and hiring.


The Taylor Curve: a Tradeoff Between Variance in Output and Variance in Inflation



Figure 1. Monetary Policy and the Variability of Output and Inflation



University of Southern California

The Taylor Rule: r = p + 0.5y + 0.5(p - 2) + 2

where r = the federal funds rate (the rate banks charge each other)

- p = the rate of inflation over the previous four quarters
- y = the percent deviation of real GDP from trend growth
- (trend GDP growth in the United States is about 3%) The recent estimate of the Taylor federal funds target is about 3.25%. The actual federal funds rate is about 0.16%.

The Taylor Principle: the parameter on inflation, p, should be greater than one. So an increase in inflation should be dealt with by increasing the federal funds rate by more than 1:1. Above, the total parameter on p is 1 + 0.5 = 1.5. The fed funds rate would rise half again as much as inflation.

#### Intellectual Influences on the Taylor Rule

- 1. Milton Friedman's Money Supply Growth Rule: Conduct monetary policy so the Ms grows by 4% per year.
- 2. The Phillips Curve: a Seeming Tradeoff between the Level of Inflation and the Level of Unemployment











John B. Taylor

Ben Bernanke

Donald L. Kohn

The **Taylor Curve was supported by empirical evidence**, and the publication of the evidence in 1993 after a 1992 conference inspired central bank economists in many countries to see if its policy corollary, the Taylor Rule, could be used as a guide to policy.

The graph in the next slide showing the fit of the Taylor Rule to actual monetary policy of Federal Reserve, is from Kohn, "It's Not So Simple."



University of Southern California





## Transforming Theory into Central Bank Policy



Could the Taylor Curve/Taylor Rule theory actually work in practice?

Could the variation in both GDP and Inflation be lowered by shifting the Taylor Curve?

Evidence from the United States, under presidents of both major political parties, suggested that the rule was both descriptive (a good approximation of what central banks do) and prescriptive (a good policy to follow to encourage investment, low stable inflation and GDP growth).

The first deliberate, academically supported empirical application of inflation targeting was done by the Reserve Bank of a Pacific Rim country—New Zealand. The evidence supported the Taylor Rule.

More recently, a departure from this policy to discretionary monetary policy—after 2001—resulted in a housing bubble, a financial crisis, the Great Recession, and anemic growth and persistent high unemployment.





## The Taylor Rule and the Financial Crisis

More recently, Taylor has collected evidence that a departure from the Taylor Rule was a major contributing factor in the financial crisis. The next three graphs show the

- 1) departure of interest rate policy from the Taylor Rule in the United States,
- 2) a counterfactual "what if" of the housing bubble (could the bubble and crisis have been avoided if the Taylor Rule had been followed in the 2000s?), and



- 3) the departure in the Eurozone, showing that the countries with greatest departures from the rule also had the greatest housing bubbles.
  - ) Book to read: <u>The Taylor Rule and the Transformation of Monetary Policy</u>, edited by Evan F. Koenig, Robert Leeson and George A. Kahn (Stanford, CA: Hoover Institution Press, 2012), 345 pages, \$34.95.



Loose fitting Federal funds rate, actual and counterfactual, %



Figure 1. Chart from *The Economist*, October 18, 2007 Source: John Taylor, "Housing and Monetary Policy," Sept. 2007







# Change in housing investment as a percentage of GDP, 2001q1–2006q4







The most likely candidates to replace Chairman Bernanke are former Treasury Secretary Timothy Geithner, former Treasury Secretary Larry Summers and current Federal Reserve Vice Chairman Janet Yellen. Secretary Geithner has been at the center of several financial bailouts. Former Secretary Summers has pushed for new stimulus packages. Vice Chairman Yellen was an early advocate of research in monetary rules.



University of Southern California

#### Conclusions



- 1. The American Economy has been underperforming. GDP has been below the long term trend for the longest time period since the Great Depression. The Eurozone has also performed poorly. Japan is in recession, with a third consecutive quarter of contracting GDP.
- 2. Job Creation has been lagging. Discouraged workers, who have given up searching for work, normally at about 400,000, have hovered around 1,000,000. The labor force participation rate has been dropping, even in the recovery.
- 3. The Fiscal Cliff could threaten an already fragile recovery, and push the United States into recession, with unemployment above 9%. But economists have a poor track record in forecasting.
- 4. The American Taxpayer Relief Act of 2012 (the name of the latest deal) increases marginal tax rates for upper income taxpayers, particularly for capital gains. It continues the extension of unemployment benefits for 99 weeks, and has no spending cuts. It is likely to hamper recovery and not reduce the deficit.



#### Conclusions



- 5. Attempts to stimulate the economy through deficit spending have not lived up to hopes. Studies show that the composition of budget reforms matters. Debt reduction which cuts government spending works. Debt reduction which increases taxes hurts GDP, and doesn't even reduce debt. The most recent deal is likely to fail either to reduce the deficit or to help the recovery.
- 6. **The American Auto Industry has been in recovery** since 2009. Government interventions (TARP, Cash for Clunkers) have had little long term success.
- 7. Uncertainty harms investment, including in the auto industry, which is the key factor that affects productivity, wages and employment. **Fiscal and monetary policies which deter investment keep unemployment high**.
- 8. Monetary policy matters. Activist Monetary Policy, such as Chairman Bernanke has been doing, has a poor track record. Rules Based Monetary Policy, such as the Taylor Rule, has a very good track record in many countries. It was the departure from this policy that was followed by a bubble and crisis. A return to this policy could shift the investment demand curve back to its normal position and create real recovery.



#### Systemic Risk and the Failure of Regulation Leffrey Friedman and Wladimir Kraus

Engineering

the

inancia

# 5.The Best Books to Read



 Engineering the Financial Crisis, by Jeffrey Friedman and Wladimir Kraus (Philadelphia: University of Pennsylvania Press, 2011), 212 pages, \$45.00.

WHAI CAUSED THE FINANCIAL CRISIS

 What Caused the Financial Crisis, edited by Jeffrey Friedman (Philadelphia: University of Pennsylvania Press, 2011), 360 pages, \$29.95.

Edited by Jeffrey Friedman Afterword by Richard A. Posner

49

3. <u>Getting Off Track</u>: How Government Actions and Interventions Caused, Prolonged, and Worsened the Financial Crisis, by John B. Taylor (Stanford, CA: Hoover Institution Press, 2009), 92 pages, \$14.95.

4. <u>The Squam Lake Report</u>: Fixing the Financial System, by Kenneth R. French et al. (Princeton, NJ: Princeton University Press, 2010), 167 pages, \$19.95.





#### FIXING THE FINANCIAL SYSTEM

Kenneth K. French: Marrin N. Bolly. John Y. Gamphell John H. Godenase: Douglas W. Basenand: Derrell Deffetuil K. Kashyap. Frederic S. Mahkin: Regheram G. Rajan David S. Schardneise: Robert J. Staller: Hyun Song Shin Matthew J. Shaughter: Jerreny C. Stein. Revol M. Stala.



University of Southern California