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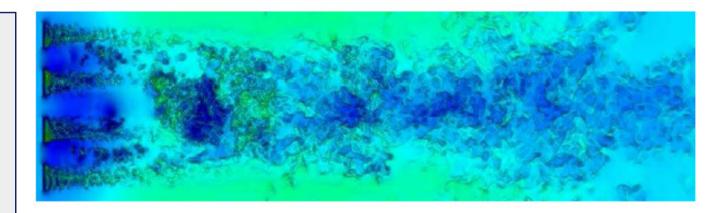
Year 2018 Outlook - Energy

12th December 2017

The 2018 Outlook for Energy

**Walter Zimmermann** 

**ICAP** Technical Analysis



Fractal Generated Turbulent Flow Laizet and Vassilicos 2009 at the UK National Supercomputing Service





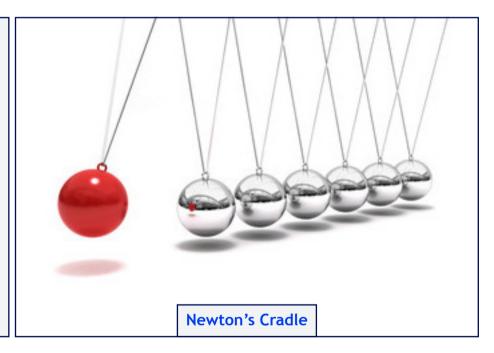
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#### What the flow of time is not

- It may well be impossible to precisely articulate the exact nature of the flow of time.
- However we can say with confidence what the flow of time is not.
- The flow of time is not a mechanical and deterministic transmission of event repercussions from the past into the future.
- The flow of time is complex, fractal, and non-linear.
- There are minor dis-continuities and outright phase transitions.
- Curiosities like 'Newton's Cradle' are definitely not useful models for how time flows.
- Things become even less mechanical when we introduce the flow of collective human behavior through time.
- However with regard to the messy nature of collective human behavior, there is a saving grace.
- · Human nature never changes.
- So complex pattern repetition in the markets is to be expected.





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Implusive	Wave Degree	Corrective		
"[" "[["	Grand Supercycle	"A" "B"		
111	Supercycle	A B		
< > <  >	Cycle	<a> <b></b></a>		
-111-	Primary	-AB-		
(1) (11)	Intermediate	(A) (B)		
"1" "2"	Minor	"a" "b"		
1 2	Minute	a b		
-12-	Minuette	-ab-		
(1) (2)	Sub-minuette	(a) (b)		
[1] [2]	Micro	[a] [b]		

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### **Financial Market Risks for Energy**

There are two main sources of financial risk for the energy markets. There is the risk of adverse economic expectations. This risk is expressed as falling equity markets. As a big part of crude oil prices are economic expectations, energy traders always need to keep one eye on equity market trends. The other financial risk in energy are US Dollar trends. Given how easily Greenback trends can overshadow crude oil fundamentals, energy traders always need to keep one eye on US Dollar trends.

### Crude Oil: is history about to repeat?

Viewed technically the Crude Oil market bears a striking resemblance to how it looked this time last year. The market is very bullish on OPEC. Net speculative length in Brent is at new all time highs. The weekly RSI in WTI is the most overbought since the 114.83 high of May 2011. RBOB sentiment is the most bullish since the 3.1520 high of June 2014. And ULSD sentiment is the most bullish since the 3.3300 high of April 2011. The bull trade in energy is a very crowded trade.

### The Risk of an Equity Bubble

While the talking heads on Wall Street complain about how Bitcoin is a bubble, their whining is a bit like the pot calling the kettle black. The US equity markets are displaying all the hallmarks of an epic scale speculative bubble. In fact I would call the Bitcoin bubble an expression of the bullish mania that is driving equities higher.











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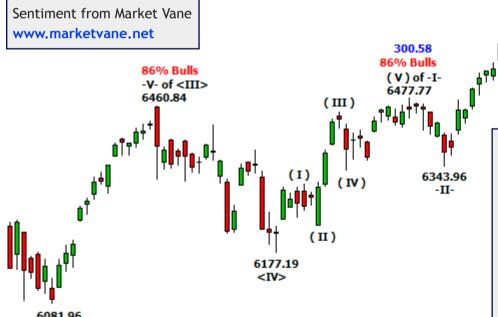
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#### The Wave Count from 6177.19

-IV-

- Based on the most recent price action the textbook, final top tick target is the 7035.00 area.
- If instead the Nasdaq keels over from here I get a major sell signal if 6695.00 is decisively broken.
- This market has all the hallmarks of a major, world class bubble.
- Suggest new length place protective sell stops.







### The Year Ahead Outlook for Energy and the Nasdaq?

- A year ahead outlook is all about the big risks ahead.
- Why could drive oil prices higher or sink prices lower?
- The biggest risk to the downside that I see is not that Russia leaves the OPEC alliance.
- It is not even that OPEC abandons their cuts.
- The biggest risk to energy prices that I can see from here is a burst stock market bubble.
- See next page.

6200.00

6400.00

Jul 20 Aug 15 Sep 15 Oct 11 20 Nov 15 Dec 15 Daily





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### Crude Oil and the Bursting of the Dot-Com Bubble

- By any measure of valuation the peak of the Dot-Com bubble in the Nasdaq marked the most over-bought, euphoric bullish extreme since the 1929 peak.
- It was an extremely crowded bull trade.
- During the 2000 to 2002 bursting of the dot-com bubble all boats were lowered.
- The Nasdag fell from 5132.52 to 1108.49
- WTI crude fell from 37.80 to 16.70
- The Nasdaq lost 78% of its value
- WTI lost 56% of its value.

### Crude Oil and the Bursting of the Credit Bubble

- On Wall Street they are fond of saying that a rising tide lifts all boats.
- What they never talk about on Wall Street is how an ebb tide lowers all boats.
- During the 2007 to 2009 bursting of the credit bubble all boats were lowered.
- The Nasdaq fell from 2861.51 to 1293.85
- WTI crude fell from 145.29 to 32.40
- The Nasdaq lost 55% of its value
- WTI lost 78% of its value.







DX Index - monthly

100,000

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101.079 (78.6%)

98.927 (61.8%)

103.82 103.820(0%)20 (100%)

84% Bulls

<V> of C

< I > = < V > = 103.323

 $1.618 \times A = C = 103.318$ 

91% Bulls -V- of

100.39 100.51

-|||-

### **Big Picture Refresh**

- To review, peg 103.82 the 16 year cycle high.
- My most bullish case candidate for the next cycle low is 78.000
- Expect any upside from here will be limited to the 99.000 101.00 zone.
- So I would much rather scale up sell into any rebound than try to buy a dip.
- At least for the next few years.





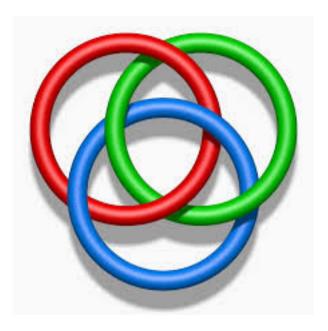
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### Mediated Influences, Not Direct Linkage

- When the US Dollar sinks crude oil rallies.
- Unless the stock market implodes, implying bearish economic expectations, and thereby lower demand for crude oil.
- When the stock market rallies crude oil follows.
- Unless the US Dollar roars higher, thereby making crude oil cheaper.
- When crude oil prices roar higher it is generally not good news for equities.
- Unless the US Dollar sinks thereby aiding US exports.
- For a fundamental analyst all this can be rather maddening.
- For every "If...Then" there is an "Unless."
- There is a mathematical structure that describes this complex three ring circus of Equities, Crude Oil, and the Greenback.
- It is called the Borromean Rings.



- The *Borromean Rings* are a mathematcial structure in which three topological circles (i.e. rings) are linked to form a *Brunnian Link*.
- In a Brunnian link the removal of any one ring leaves behind two unlinked rings.
- In this structure no two of the three rings are linked with each other, yet all three are connected.
- So for example, delete the blue ring and the red and green rings are now unlinked.

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market share The OPEC Dilemma is the

**Nature of the Markets** 

Prices Rise

**OPEC Cuts Output** to Raise Prices

New non-OPEC output results in loss of OPEC

> OPEC fight to regain market share leads to supply glut and falling prices.

> > **OPEC Cuts Output**

to Raise Prices

#### The OPEC Predicament

In the old days there was a multi-year lag between an OPEC engineered rise in crude oil prices and a surge of new non-OPEC output. But now with thousands of DUCs in North America that lag time between a price hike and new non-OPEC output is measured in weeks. Now the plight of OPEC is visible for all to see. And with 'Transportation As A Service' and Autonomous Electric Vehicles on the horizon time is clearly not on the side of OPEC.

> New non-OPEC output results in loss of OPEC market share

**Prices** OPEC fight to regain Rise market share leads to supply glut and

falling prices

### Initial OPEC Success was a Liability

Huge price spikes in the early days of OPEC created fantastic wealth. However this wealth blinded OPEC to the unsolvable nature of their longer term dilemma. They cannot have both market share and high prices. The markets do not work that way.







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WTI - daily

#### More on that First Alarm

50.43

- On the previous page I noted that the first alarm would be a break below 55.00 from here.
- That would open room down to the 48.55 area.
- Based on the bull case Elliott wave model outlined here a decisive break below 55.25 would be enough to derail the bull case.



20 15 Aug



Walter J. Zimmermann Jr. wz@ica	ıp-ta.com					Year 20	18 Outlook -	Energy
In Search of Cyclical Resistance In time cycle terms WTI is seeking out the			WTI -	- weekly		<a> = &lt;</a>	C> = <b>71.2</b> 5	70.00 68.00
upper edge of a trading range that should					-A-	- = -C- = 65.5	65.55 (0%)	66.00
persist into 2030 plus or minus a couple years.								64.00
	_		.618 x <a></a>	= <c> = 60.0</c>		/		62.00
	kly high close = 53.9			-A 59.0				60.00
.61	8 x -A- = -C- = 55.0 -C- of			ı Kı	I			58.00
	55.24			"d†¶" <mark>`</mark> \	\			56.00
-A- 51.67	ا الم	ıåå†∳∳∯⊥⊥.		ų,	\			54.00
51.07	╷╷ ╻╻ ╻	·	I		\ /			52.00
						50.00		
						48.00		
<b> </b>	╵╻┧╃┩	<b>"</b> "	` <b>q</b> ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		-B- 48.55 =	618 of		46.00
	<b>""  </b>	I	<b>'</b>		42.05 to			44.00
			42.05				41.14 (61.8%	_
39.1	۵		<b></b>					40.00
'		Candidates for	the Cyclica	l Trading Rai	nge			38.00
• In the bull case outlined here cyclical trading range 34.50 (78.6%)								
resistance is the 65.55 to 71.25 zone.					34.00 32.00			
• From a 65.55 area trading range peak the candidate  for cyclical trading range support becomes the				30.00				
41.00 to 35.00 zone.					28.00			
							26.05 (100%	26.00
26.05								20.00
Oct '16 Apr Jul	Oct '17	Apr	Jul	Oct	'18	Apr	Jul Oct	Weekly









Monthly



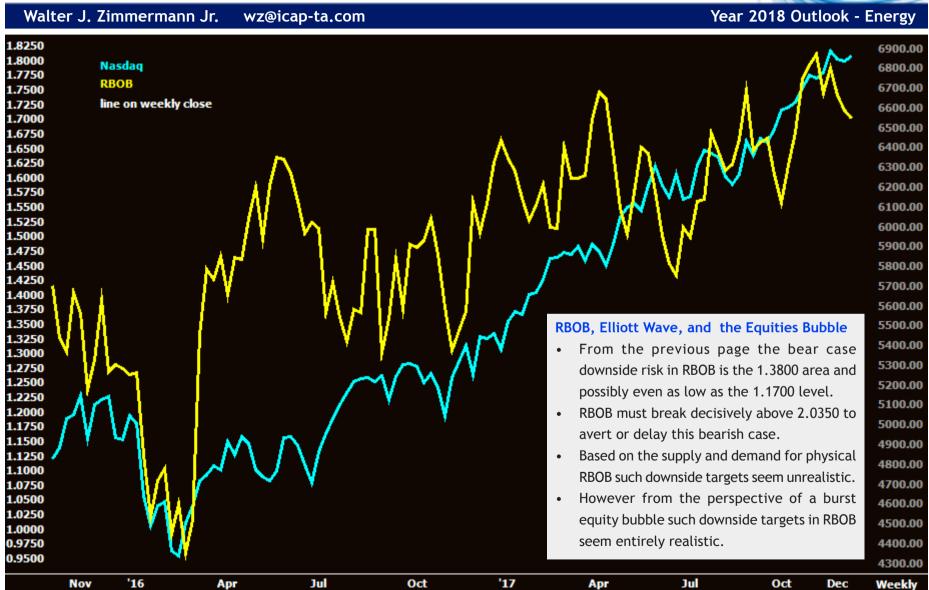




































#### **ICAP** Technical Analysis The Bull Case Walter J. Zimmermann Jr. wz@icap-ta.com Year 2018 Outlook - Energy The 2.520 holds The ensuing rebound Natgas - weekly 4.300 1 54% Bulls .50 of 6.493 to 1.611 = 4.050 reaches 3.990 minimum 4.200 -C- of <A> 4.100 3.994 $.618 \times <A> = <C> = 3.990$ 4.000 3.900 3.800 50% Bulls 3.700 $.618 \times -A = 3.432$ 3,600 (V) of -A-3.366 3.500 $3.430 = .618 \times <A> = <C>$ 3.431 3,400 3.300 3.200 (III) 2.998 3.100 3.000 2.900 2.800 2.700 2.600 2.521 (61.8%) 2.500 2.523 2.546 2.522 -C- of <B> at 2.520 (IV) 2.400 -A-(1) 2.195 2.300 2.200 2.100 1.964 (85.2%) 2.000 -C- of <B> at 1.960 1.900 The Bear Case 1.800 Natty falls to 1.960 1.700 The ensuing rebound 1.600 1.611 reaches 3.430 minimum 1.500 11% Bulls (!) '16 0ct '17 '18 '19 Apr Jul Apr Jul 0ct Apr Jul 0ct Weekly