

# Answers to Objections and Questions

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Physicist and Archaeometrist  
July 18, 2006; with updates

Thanks to: Robert Moore, Alex Floum, Jim Hoffman, David Ray Griffin, Kevin Ryan, Derrick Grimmer, Brian Vasquez, Robert Stevens, Gregg Roberts and many others.

Based primarily on talks given at the Utah  
Academy of Sciences (April 2006) and  
the American Scholars Symposium  
(June 2006)

The author is responsible for views presented here



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# Rocky Mountain News

## 9/11 suspicions

■ 36% of Americans think feds aided or failed to stop attacks in hopes of going to war, ZOA



A New York City fireman calls for 10 more rescue workers to make their way into the rubble of the World Trade Center on Sept. 15, 2001.



SECTION

## One-third see U.S. hand in 9/11, Scripps poll says

Conspiracy beliefs reflect anger with government

By Thomas Hargreaves and Cade H. Stoppel III  
STAFF WRITERS FOR ROCKY MOUNTAIN NEWS

More than a third of the American public suspects that federal officials assisted in the Sept. 11 terrorist attacks or took no action to stop them, as the United States could go to war in the Middle East, according to a new Scripps Howard/CNN University poll.

The national survey of 1,000 adults also found that 36% of Americans believe the federal government is at fault for the Sept. 11 attacks, saying they "personally are more angry" at the government than they are at the hijackers.

Widespread resentment and suspicion toward the federal government appears to be fueling a growing acceptance of conspiracy theories about the Sept. 11 attacks on the World Trade Center and the Pentagon.

Respondents that the 9/11 attacks were "an inside job" — the common phrase used by conspiracy theorists — quickly rose before nearly as popular as doubts of conspiracy theories that the federal government was responsible for President John

Edward Kennedy's assassination. "There's no proof of space aliens," said a "very likely" or "somewhat likely" that federal officials assisted in the Sept. 11 attacks on the World Trade Center and the Pentagon or took no action to stop them "because they wanted the United States to go to war in the Middle East."

"One out of three sounds high, but that may very well be right," said Lee Hazzlett, former vice chairman of the National Commission on Terrorist Attacks Upon the United States (also called the 9/11 Commission). His commission's appointed investigation concluded that federal officials sought their attempts to prevent, but did not participate in, the attacks by al-Qaida five years ago.

The poll also found that 14 percent of Americans speculate that secretly planted explosives, test airplanes, were the reason the twin towers of the World Trade Center collapsed.

Conspiracy groups for at least two years have questioned why the World Trade Center collapsed when their that heavily damaged similar skyscrapers around the world did not cause such destruction. Hazzlett person said, it's "very likely" or "somewhat likely" that "the collapse of the twin towers in New York was caused by explosives secretly planted in the two buildings."

### Media watchers

■ **Non-mainstream Web sites:** People who regularly use the Internet but who do not regularly use so-called "mainstream" media are significantly more likely to believe in 9/11 conspiracies.

■ **Newspapers, radio:** People who regularly read daily newspapers or listen to radio news programs were especially unlikely to believe in the conspiracies.

### Conspiracy believers

Believe that government assisted 9/11 attack or allowed it to happen:

■ **Men** 27% ■ **Age 25-44** 40%  
■ **Women** 37% ■ **Age 45-64** 36%  
■ **Age 18-24** 27% ■ **Age 65 or older** 24%

### What do you say?

■ **Was the government involved in the Sept. 11 attack?** (If so, do you think it had prior knowledge they would occur? Share your opinion after 7 a.m. in Rocky Mountain at [www.RockyMountainNews.com](http://www.RockyMountainNews.com).)

## Any breaking news?

Panel discussion at 9/11 Conference in LA, shown on **CSPAN** four times in Aug., 2006. See it here:

<http://www.911blogger.com/2006/07/cspans-coverage-of-american-scholars.html>



- Breaking news updates here: [www.911blogger.com](http://www.911blogger.com)



## August 2006 news

- **CNN:** 9/11 conspiracy theorists energized Aug. 6, 2006 11:45 pm
- “Five years after the terrorist attacks, a community that believes widely discredited ideas about what happened on September 11, 2001, persists and even thrives. Members trade their ideas on the Internet and in self-published papers and in books. About 500 of them attended a recent conference in Chicago, Illinois.
- The movement claims to be drawing fresh energy and credibility from a recently formed group called **Scholars for 9/11 Truth.**”
- More:  
<http://www.cnn.com/2006/EDUCATION/08/06/sept11.theories.ap/index.html> Right: Kevin Barrett
- 9/11 Conspiracy Theorists Claim Momentum
- By JUSTIN POPE, **AP**
- (Aug. 6) - Kevin Barrett believes the U.S government might have destroyed the World Trade Center. Steven Jones is researching what he calls evidence that the twin towers were brought down by explosives detonated inside them, not by hijacked airliners.
- More:  
[http://articles.news.aol.com/news/\\_a/911-conspiracy-theorists-claim-momentum/20060806160209990003](http://articles.news.aol.com/news/_a/911-conspiracy-theorists-claim-momentum/20060806160209990003)



# Front page, Seattle Post Intelligencer, Aug. 3, 2006

[http://seattlepi.nwsourc.com/national/279827\\_conspiracy02ww.html](http://seattlepi.nwsourc.com/national/279827_conspiracy02ww.html)

- **Was 9/11 an 'inside job'?**
- By THOMAS HARGROVE AND GUIDO H. STEMPEL III  
SCRIPPS HOWARD NEWS SERVICE
- **“More than a third of the American public suspects that federal officials assisted in the 9/11 terrorist attacks or took no action to stop them so the United States could go to war in the Middle East, according to a new Scripps Howard/Ohio University poll.**
- The national survey of 1,010 adults also found that anger against the federal government is at record levels, with 54 percent saying they “personally are more angry” at the government than they used to be.
- Widespread resentment and alienation toward the national government appear to be fueling a growing acceptance of conspiracy theories about the 2001 attacks on the World Trade Center and the Pentagon.
- Suspicions that the 9/11 attacks were “an inside job” -- the common phrase used by conspiracy theorists on the Internet -- quickly have become nearly as popular as decades-old conspiracy theories that the federal government was responsible for President John F. Kennedy's assassination and that it has covered up proof of space aliens.



# Seattle PI, Aug 3, 2006 cont'd

- **"Thirty-six percent of respondents overall said it is "very likely" or "somewhat likely" that federal officials either participated in the attacks on the World Trade Center and the Pentagon or took no action to stop them "because they wanted the United States to go to war in the Middle East."**
- "One out of three sounds high, but that may very well be right," said Lee Hamilton, former vice chairman of the National Commission on Terrorist Attacks Upon the United States (also called the 9/11 Commission)... "A lot of people I've encountered believe the U.S. government was involved," Hamilton said...
- The poll also found that 16 percent of Americans speculate that **secretly planted explosives, not burning passenger jets, were the real reason the massive twin towers of the World Trade Center collapsed.**
- Conspiracy groups for at least two years have also questioned why the World Trade Center collapsed when fires that heavily damaged similar skyscrapers around the world did not cause such destruction. Sixteen percent said it's "very likely" or "somewhat likely" that "the collapse of the twin towers in New York was aided by explosives secretly planted in the two buildings.""

# **“9/11 Panel Suspected Deception by Pentagon**

**Allegations Brought to Inspectors General”**

**By Dan Eggen**

**Washington Post**, Wednesday, **August 2, 2006**; Page A03

- “Some staff members and commissioners of the Sept. 11 panel concluded that the **Pentagon's initial story of how it reacted to the 2001 terrorist attacks may have been part of a deliberate effort to mislead the commission and the public** rather than a reflection of the fog of events on that day, according to sources involved in the debate.
- **Suspicion of wrongdoing ran so deep that the 10-member commission, in a secret meeting at the end of its tenure in summer 2004, debated referring the matter to the Justice Department for criminal investigation**, according to several commission sources. Staff members and some commissioners thought that e-mails and other evidence provided enough probable cause to believe that **military and aviation officials violated the law by making false statements to Congress and to the commission, hoping to hide** the bungled response to the hijackings, these sources said.
- In the end, the panel agreed to a compromise, turning over the allegations to the inspectors general for the Defense and Transportation departments, who can make criminal referrals if they believe they are warranted, officials said.”

Are any other scholars publishing  
peer-reviewed papers on 9/11?  
**YES! Announcing the new**



- [Journalof911Studies.com](http://Journalof911Studies.com)
- **Editors:** Kevin Ryan and Steven Jones
- **Advisory Editorial Board:**
- Alex Floum, Prof. Marcus Ford, Derrick Grimmer (Ph.D.), Prof. Richard McGinn, Kimberly Moore, Robert Moore, Joseph Phelps (MS, PE; structural engineering), Prof. Diana Ralph, Robert Stevens, Lon Waters (Ph.D.) and Prof. Paul Zarembka.

# Where is your peer-reviewed paper published?

- [http://journalof911studies.com/volume/200609/Why\\_Indeed\\_Did\\_the\\_WTC\\_Buildings\\_Completely\\_Collapse\\_Jones\\_Thermite\\_World\\_Trade\\_Center.pdf](http://journalof911studies.com/volume/200609/Why_Indeed_Did_the_WTC_Buildings_Completely_Collapse_Jones_Thermite_World_Trade_Center.pdf) or just Google on “Jones thermite”
- On paper: David Ray Griffin and Peter Dale Scott, *9/11 And The American Empire: Intellectuals Speak Out*, and also in *Global Outlook*, Spring 2006, Volume 11, pages 47 – 70.
- **Prof. Griffin (editor) stated that there were four reviewers for my paper, all Ph.D's, two were physicists.**
- Español: [http://www.scholarsfor911truth.org/StevenJonesMs\\_Espa.html](http://www.scholarsfor911truth.org/StevenJonesMs_Espa.html) “¿Por qué se derrumbaron realmente los edificios del WTC?”
- In Japanese: [http://www17.plala.or.jp/d\\_spectator/](http://www17.plala.or.jp/d_spectator/)
- **Not** in Elsevier publication “The Hidden History of 9/11/2001” – also a fine publication of peer-reviewed scholarly papers.





# What got you started in your study of 9/11 events?

- Various nudges
- “If you think that those buildings came down on 9/11 just because of a few hijackers hitting the Towers, you have MAJOR surprises ahead of you!”  
(Sarah Menet)
- Went to web, found WTC7.net, saw the collapse of WTC 7 for the First Time



**WTC7 collapse: near free-fall time (SW corner/roof)  
and complete,  
just like controlled demolition using explosives  
(example on right)  
Even better, from Italian TV (be sure to see this!):  
[http://www.911podcasts.com/files/video/Italian  
debateshow-WTC7.wmv](http://www.911podcasts.com/files/video/Italian_debateshow-WTC7.wmv)**

QuickTime™ and a  
YUV420 codec decompressor  
are needed to see this picture.

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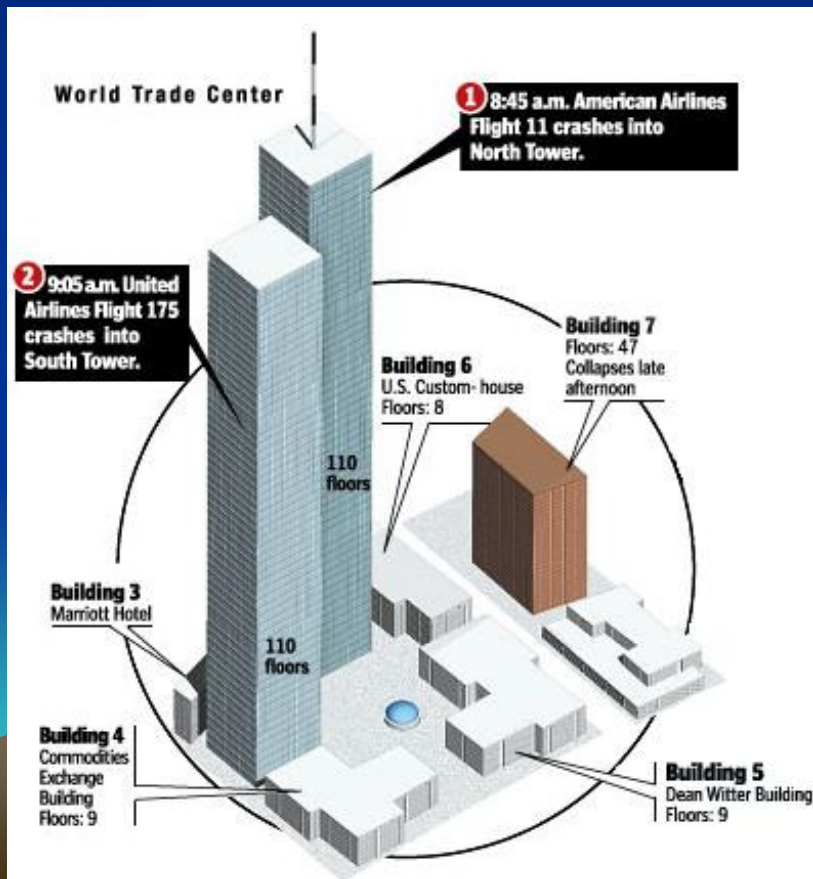
9-11 Commission report failed to even mention collapse of WTC 7!

NIST on WTC7 is long overdue, yet NIST refuses to release WTC 7  
photos and videos (FOIA action)

Backup: <http://www.911podcasts.com/display.php?vid=113>

# WTC 7 on afternoon of 9-11-01

- WTC 7 was ~300 feet from WTC 1.



- WTC7 is the **tall** sky-scraper in the back-ground, right, standing just fine for 7 hrs...
- Random fires.**



**A third skyscraper (WTC 7) completely collapsed  
7 hours after Towers, but not hit by a jet!**

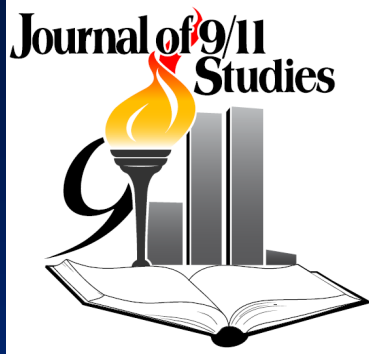






# I learned of a large and growing “9/11 Truth Movement”

- NY Times, June 5, 2006, on the 9/11 Conference at Chicago. See:
- <http://www.nytimes.com/2006/06/05/us/05conspiracy.html?ex=1307160000&en=2d1267599cc19885ei=5088partner=rssnytemc=rss>



- **WTC 7: A short computation**
- Kenneth L. Kuttler
- Professor of Mathematics
- Brigham Young University
- Provo, Utah 84602
- **Introduction**
- I provide a short computation, focused on World Trade Center building 7. Based on very favorable assumptions for achieving a fast fall, including ignoring resistance due to intact steel columns, I could only get the building to fall in about 8.3 seconds, whereas the observed roof-fall time is approximately 6.5 seconds. The problem is the large number of floors and conservation of momentum in a collision. Some of the “official” explanations about progressive collapse are evocative but they do not explain the difficulty in the rapid fall of the building along with what is evidently taking place when the video of the falling building is observed.



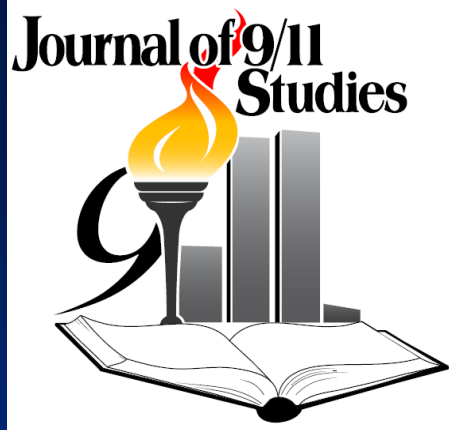
# From Prof. Kuttler's paper on the fall of WTC 7:

The total time for falling, neglecting any time for the collisions themselves would then be

$$\frac{h}{\left(\frac{\sqrt{2gh}}{2}\right)} + \frac{h}{\frac{1}{2}\left(\sqrt{\left(\left(\frac{1}{2}\right)^2 + 1\right) + 2gh} + \frac{1}{2}\sqrt{2gh}\right)} \\ + \sum_{k=3}^n \frac{h}{\left(\frac{1}{2}\sqrt{\left(1 + \frac{1}{k^2} \sum_{j=1}^{k-1} j^2\right) 2gh} + \frac{k-1}{k} \sqrt{\left(1 + \frac{1}{(k-1)^2} \sum_{j=1}^{k-2} j^2\right) 2gh}\right)}$$

**Journal of 9/11  
Studies**





- Prof. Kuttler, footnote 2:
- **Any further analysis of the collapse of WTC 7 should include all floors (not just “floors 8 to 46”) and conservation of momentum considerations** (see
- [http://wtc.nist.gov/solicitations/wtc\\_awardQ0186.htm](http://wtc.nist.gov/solicitations/wtc_awardQ0186.htm)).

[http://wtc.nist.gov/solicitations/wtc\\_awardQ0186.htm](http://wtc.nist.gov/solicitations/wtc_awardQ0186.htm)

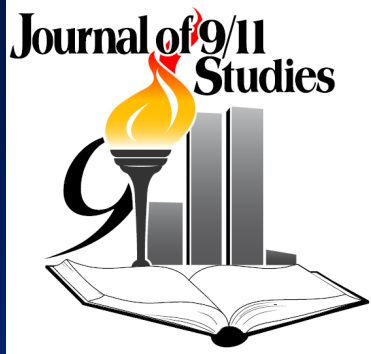
- National Institute of Standards and Technology (NIST) contracted ARA to analyze the collapse of WTC 7 earlier this year (2006), with restrictions:
- **“Create detailed floor analyses to determine *likely modes of failure for Floors 8 to 46* due to *failure* of one or more supporting columns (at one or more locations) in World Trade Center Building Seven.”**
- **How about floor 47 and the floors below 8?**
- **“Loose Change, Final Cut” has a very informative recorded statement by a man who was trapped at floor 8 in WTC 7 due to an explosion below him, he states for the record. Firefighters were able to get him and a companion out of the building before its complete collapse. Such an explosion would weaken the structure below, as is commonly done in controlled demolitions.**
- ***I agree with Professor Kuttler’s challenge to NIST and any serious study of the collapse of WTC 7 – must include a study of what happened below floor 8!***



# If collapse is started, what happens next?

- The NIST final report only takes us to the point where the Tower is “poised to collapse.” ...(NIST, 2005, p. 142; emphasis added.)”

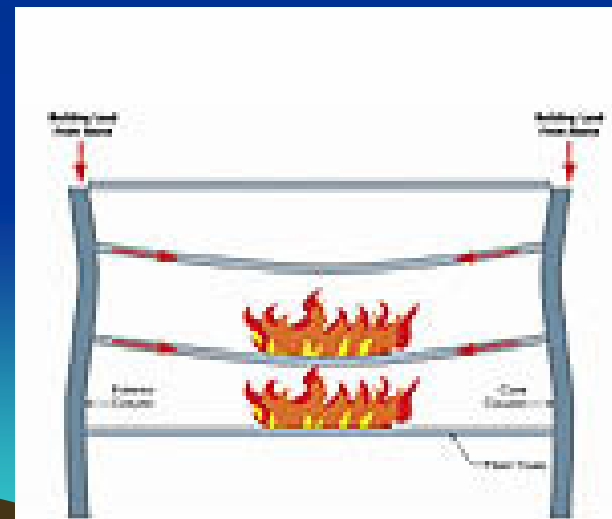




- **Momentum Transfer Analysis of the Collapse of the Upper Storeys of WTC 1**  
**by Gordon Ross**
- “The analysis shows that despite the assumptions made in favour of collapse continuation, **vertical movement of the falling section would be arrested** prior to completion of the 3% shortening phase of the impacted columns...”
- **“A collapse driven only by gravity would not continue to progress beyond that point.”**

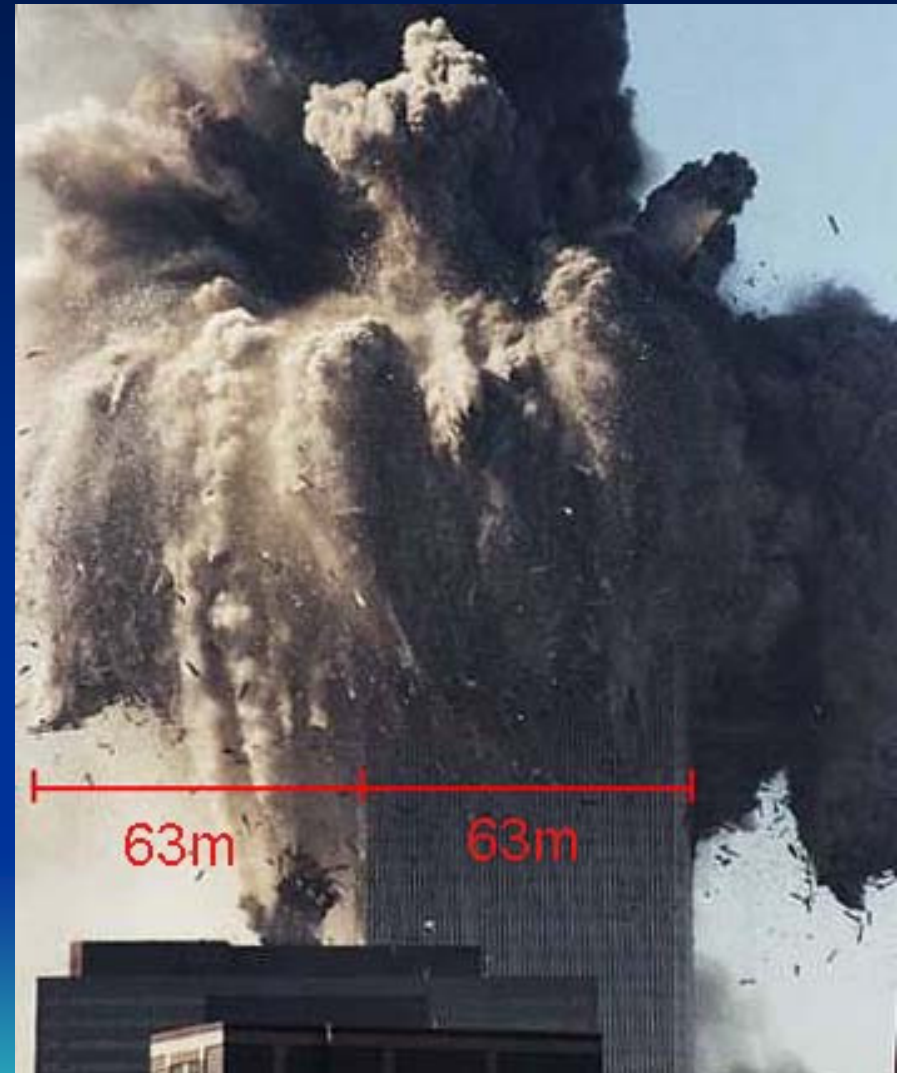


- Note the forty-seven **interconnected core columns**.
- The Towers were not hollow tubes!
- FEMA drawing of the Towers (below) is misleading: where is the core?





- Pulverization and expulsion of concrete (etc.) REMOVES ENERGY from the system, as does flexing of non-damaged (and not heated) steel columns at lower levels.
- If the collapse is gravity fed only (official story), **then the energy losses will STOP the collapse.**
- However, explosives add energy, to produce pulverization and expulsion of concrete and steel members – as observed.
- **Without explosives, only a partial building loss would have happened (based on Laws of Conservation of Energy and Momentum).**



- Top ~30 floors of WTC2 observed to rotate and topple over.
- **A thorough scientific analysis will apply Laws of Conservation of Energy and Momentum – and Angular Momentum to see what happens next. (Physics!)**
- **NIST did not do this. Neither did FEMA.**
- Will the huge non-damaged core steel columns in the Tower remain standing (without explosives)? If not, why not?



**No “stacked-up” floors in either Tower (left).  
And where did the core columns go?  
(Without explosives, that is.)** Right: Pancaked floors, due to  
earthquake.





## NIST final report is the “official **pre-collapse theory**”...

- “The focus of the Investigation was on the sequence of events from the instant of aircraft impact to the initiation of collapse for each tower. For brevity in this report, this sequence is referred to as the “probable collapse sequence,” although **it does not actually include the structural behavior of the tower after the conditions for collapse initiation were reached...**” (NIST, 2005, p. 80, fn. 12; emphasis added.)
- Again, on page 142, NIST admits that their computer simulation only proceeds until the building is “poised for collapse”, thus ignoring any data from that time on.
- “The results were a **simulation** of the structural deterioration of each tower from the time of aircraft impact **to the time at which the building became unstable, i.e., was poised for collapse.** ... (NIST, 2005, p. 142; emphasis added.)”

# How does Controlled Demolition work?

- Quotes from “on-line text” on demolition  
<http://science.howstuffworks.com/building-implosion.htm>
- “You can demolish a stone wall with a sledgehammer, and it's fairly easy to level a five-story building using excavators and wrecking balls. But when you need to bring down a massive structure, say a 20-story [skyscraper](#), you have to haul out the big guns. **Explosive demolition is the preferred method for safely and efficiently demolishing larger structures.** When a building is surrounded by other buildings, it may be necessary to “implode” the building, that is, **make it collapse down into its footprint.**
- “The **violent blasts and billowing dust clouds** may look chaotic, but a building implosion is actually one of the most precisely planned.. engineering feats you'll ever see.
- “Demolition blasters **load** explosives on several different levels of the building so that the building structure falls down on itself at multiple points. **When everything is planned and executed correctly, the total damage of the explosives and falling building material is sufficient to collapse the structure entirely, so clean-up crews are left with only a [short] pile of rubble.** [As observed for WTC 7, also WTC 1 and 2 – the Twin Towers – on 9-11-01.]

# Observe

- **Controlled demolition is used to bring buildings straight down, symmetrically, and rapidly (near free-fall speed).**
- **Typically, explosions in basement first, then on higher floors to accomplish symmetric implosion.**
- **Controlled demolition is characterized also by puffs/jets of gas and debris called “squibs.”**
- **Notice large “squibs” coming out of side of buildings in sequence.**



QuickTime™ and a  
YUV420 codec decompressor  
are needed to see this picture.



# Evidence for use of explosives, like RDX, HMX, or Superthermite (with nanoaluminum powder)

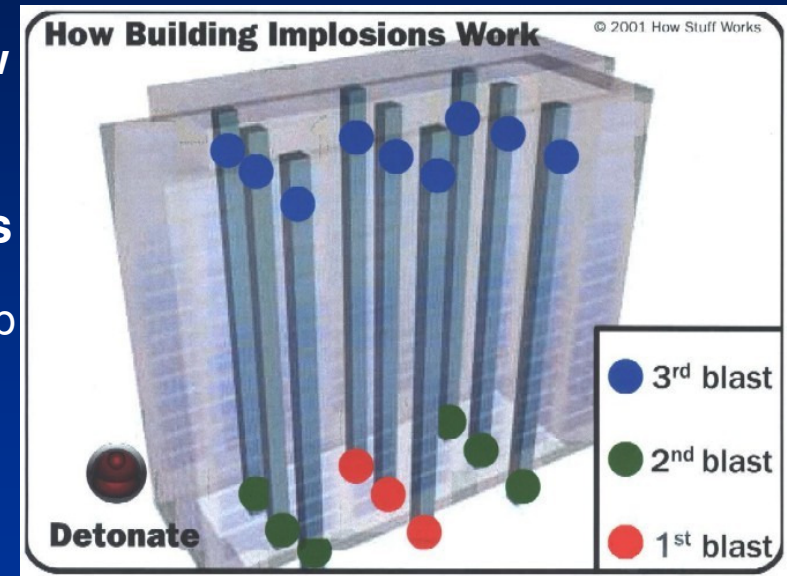


For example, plumes of dust and debris ('squibs') far below pulverization region.

- “In order to demolish a building safely, blasters must map out each element of the implosion ahead of time... Once they have gathered all the raw data they need, the blasters hammer out a plan of attack. Drawing from past experiences with similar buildings, they decide what explosives to use, where to position them in the building and how to time their detonations.
- “The main challenge in bringing a building down is controlling which way it falls. Ideally, a blasting crew will be able to tumble the building over on one side, into a parking lot or other open area. This sort of blast is the easiest to execute.
- Tipping a building over is something like felling a tree. To topple the building to the north, the blasters detonate explosives on the north side of the building first...
- “Sometimes, though, a building is surrounded by structures that must be preserved. In this case, the blasters proceed with a true implosion, demolishing the building so that it collapses straight down into its own footprint (the total area at the base of the building). This feat requires such skill that only a handful of demolition companies in the world will attempt it.
- “Blasters approach each project a little differently... When the explosives are detonated in the right order, the toppling [sections] crash against each other, and all of the rubble collects at the center of the building.
- [A good] option is to detonate the columns at the center of the building before the other columns so that the building's sides fall inward.

# Demolition: First blast support columns ON LOWER FLOORS, then supports on upper floors

- “Generally speaking, [controlled demolition] blasters will **explode the major support columns on the lower floors first** and then a few upper stories... In most cases, blowing the support structures on the lower floors is sufficient for collapsing the building, but [exploding] columns on upper floors helps break the building material into smaller pieces as it falls. This makes for easier clean-up following the blast.
- “Once the blasters have figured out how to set up an implosion, it's time to prepare the building. Next, blasters can start loading the columns with explosives. Blasters use different explosives for different materials, and determine the amount of explosives needed based on the thickness of the material. For concrete columns, blasters use traditional **dynamite** or a similar explosive material [like RDX or Thermite]... Blasters cram this explosive material into narrow bore holes drilled in the concrete columns. When the explosives are ignited, the sudden outward pressure sends a powerful shock wave busting through the column at supersonic speed, shattering the concrete into tiny chunks.”



# Video clips of controlled demolitions



- Videos here:
- [Implosionworld.com/cinema.htm](http://www.implosionworld.com/cinema.htm)
- Critique of some CDI claims:
- <http://www.implosionworld.com/natgeo.htm>



“The explosive charges used to bring down the Landmark Tower [380 ft tall, 30 stories] weighed only **364 pounds**, consisting of 198 pounds of 60-percent nitroglycerine-based gel in 1-1/4 inch sticks, and 166 pounds of RDX (a C-4 derivative).

To break structural steel, **369 linear shaped armor-piercing charges were required**. Concrete columns were broken with the larger charges of RDX ranging from 2 ounces to 12 ounces at a density of 600 grains to 4,000 grains per lineal foot.” <http://www.acppubs.com/article/CA6325450.html>

**Scaling to the WTC Towers, only about 1300 pounds of similar explosives per Tower would be needed, at about that many linear-shaped charges to break structural steel.**

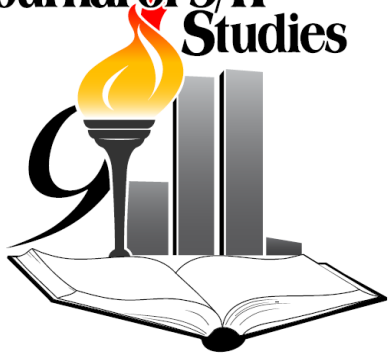


- See simulation, and video:
- <http://www.realcities.com/multimedia/dfw/news/archive/implosion/0318implosion.html>
- <http://www.dfw.com/multimedia/dfw/news/archive/0318implosion1/index.html>
- Free-fall of roof: 4.9 seconds: about the same time for actual fall, through use of explosives!

# A new way to do controlled demolition?

- Think of it – just put explosives for a few upper floors (like where the planes went in).
- Set these off, more or less randomly (like the effects of damage and fire).
- Will the building then collapse completely and straight down?
- It happened twice on 9/11 (so official story would lead us to believe).
- I challenge Engineers to model this, see whether or not the Tower will actually continue to complete collapse.
- I think not! (See detailed papers by Gordon Ross, Kevin Ryan and Frank Legge in *Journalof911Studies.com*)



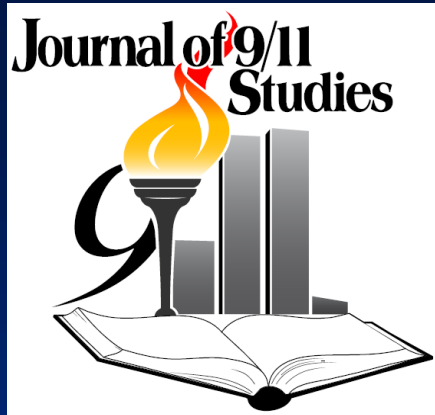


## What is 9/11 Truth? – The First Steps

**Kevin Ryan**, vol 2: 20- 48,

<http://www.journalof911studies.com/>

- “...**NIST avoids the actual collapse dynamics, following the 9/11 Commission’s lead by omitting many of the most important and relevant facts...**”
- “**Our nation and the world have wagered everything on the Bush Administration’s story of what happened on September 11th. It is now clear that their story is entirely false...**”



# Preview: Analysis of 911Myths by R. Rajter

- “I will focus on the methodology of the arguments put forth in 911Myths and give the top 10 examples of **half-truths, false information, speculation but no substance.**
- “I will write an article on the art of discernment and take down the key and critical arguments that collapses the entire deck of cards.”
- “**911Myths claim: Silverstein lost money, even with the \$4.6Billion dollar settlement... The 911Myths analysis here fails completely.**”

# Q: What else do you do?

- Prof. Jones main research areas are fusion, solar energy, and archaeometry. He has taught archaeometry at the graduate level, and he co-chaired a conference at BYU on the subject.
- Archaeometry is the application of advanced physics methods to archaeology, and is directly related to the study of what happened on 9/11 in NY City, based on physical evidences.
- “We use X-ray Fluorescence, EDS, TEM and other methods of archaeometry to analyze debris and other evidences from the 9/11 disaster, to probe what took place in that event. We are not afraid to probe alternative hypotheses as part of the scientific method.” – Steven Jones

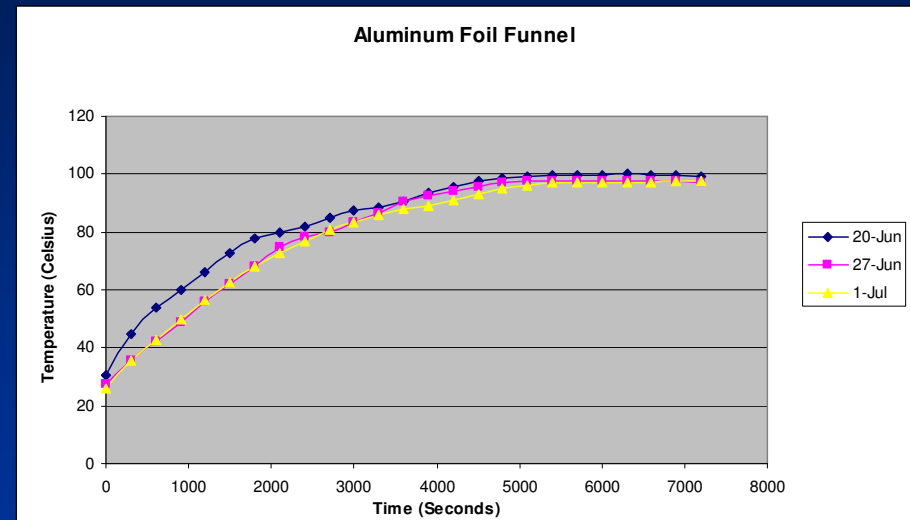
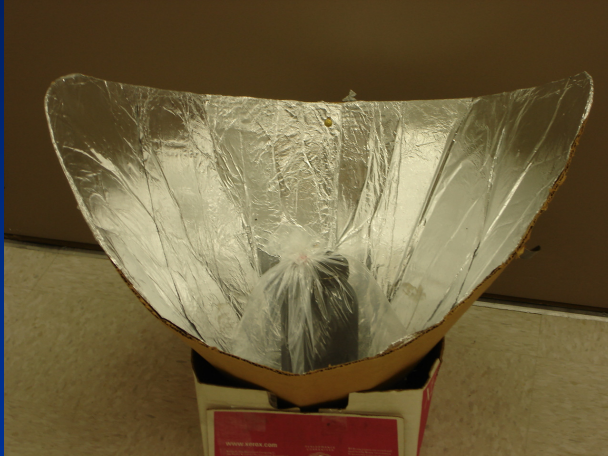


# Taking the Solar Funnel Cooker to Mali, Africa (Yeah Samake, 6/14/06)



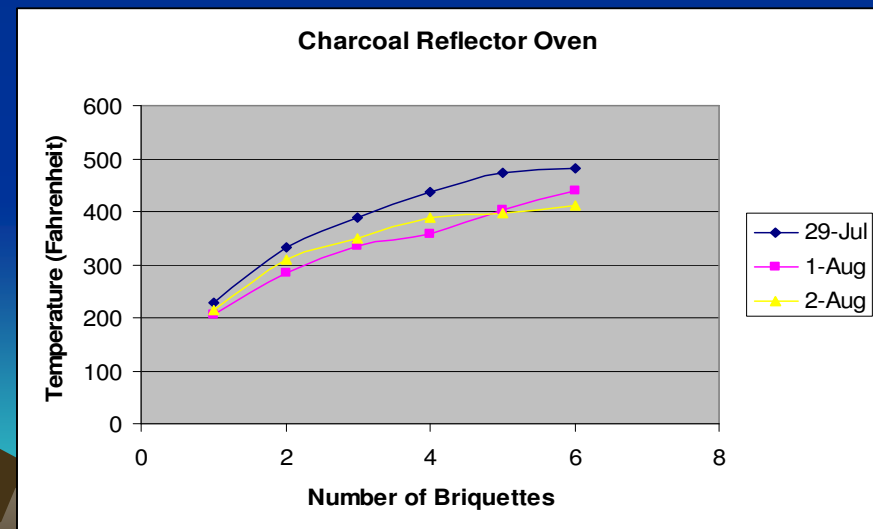
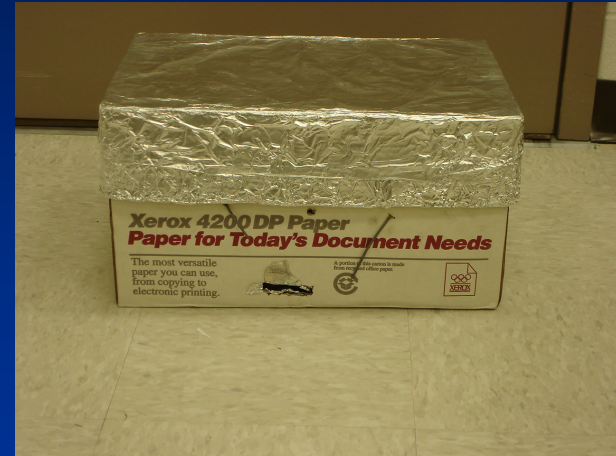


# Solar Funnel Cooker



- A funnel concentrates sunlight onto a dark pot in a plastic bag (S. Jones, 1998 ff, several publications)
- Combines best of parabolic and box cookers
- Inexpensive and easy

**“Solar Cookers and Other Cooking Alternatives,” Sarah McGuire and Steven E. Jones, *Solar Cooking Archives*, May 2006.**  
Available on-line at <http://solarcooking.org/research/McGuire-Jones.mht>





# Why? Shared Values

- **Truth**
- **Caring for others**
- **Preparation for the future/ Long-term concerns**
- **Love for our Country and our Constitution**
- (I do not believe in sacrificing a few (~3000 people) for a supposed “greater good”, then covering up the truth, if that’s what happened.)



# Doesn't your work on cold fusion discredit you?

- Actually, our research has in recent years been independently verified, as we shall see...



I have published numerous papers on “cold fusion”:  
Scientific American, Nature, Physical Review Letters, etc.

# SCIENTIFIC AMERICAN

July 1987

## Cold Nuclear Fusion

*The electronlike particles called muons can catalyze nuclear fusion reactions, eliminating the need for powerful lasers or high-temperature plasmas. The process may one day become a commercial energy source*

by Johann Rafelski and Steven E. Jones

Ordinarily the mention of nuclear fusion calls forth images of enormous magnets, powerful lasers and plasmas hotter than the center of the sun. These create the extreme conditions in which pairs of hydrogen atoms fuse, or join, creating helium and giving off energy that could be used to produce electric power. A less familiar but perhaps more promising kind of fusion, known as muon-catalyzed fusion, has a very different aspect: it circumvents the need for high temperatures entirely.

Muon-catalyzed fusion, which is also called cold fusion, can take place rapidly at room temperature in a simple chamber containing certain kinds of hydrogen known as deuterium and tritium. Particles known as negative muons are introduced into the chamber, and they form unusually tight bonds between the nuclei of some of the hydrogen atoms. The muon-bonded hydrogen nuclei then fuse, ejecting the muons, which can go on to catalyze other fusion reactions. The other atoms in the gas are essentially unaffected, except that each fusion increases the temperature of the gas as a whole. The heat from muon-catalyzed reactions might someday drive tur-

ly charged atoms) from a particle accelerator to collide with a sample of ordinary matter such as carbon. The collisions produce particles called pions, which quickly decay to make muons in a process much like the one that takes place when primary cosmic rays strike the atmosphere.

Muons can carry positive or negative electric charge. A negative muon has properties quite similar to those of the electron but is about 207 times more massive. As we shall discuss, it is the muon's large mass that enables it to catalyze fusion reactions.

It is not yet possible to build a cold-fusion reactor that produces more energy than is required to operate it. A major stumbling block results from the short lifetime of muons, which decay, on the average, in about two microseconds (millionths of a second) after they are created. In that short time each muon must catalyze enough reactions so that the reactor as a whole can power the accelerator that generates muons. Until recently that goal seemed remote. In the past few years, however, theoretical and experimental advances have shown that under the proper conditions a muon may catalyze hundreds of times more reactions

not heard of the earlier suggestions by Frank and Sakharov, but, assisted by Edward Teller, they deduced that the patterns recorded the products of muon-catalyzed fusion reactions.

The discovery caused great excitement at first. As Alvarez remarked in his Nobel-prize acceptance speech in 1968, “We had a short but exhilarating experience when we thought we had solved all of the fuel problems of mankind for the rest of time.” Unfortunately later calculations showed the reactions he had observed were too slow to generate useful energy: the average muon had time to catalyze at most only a single fusion before it decayed, producing too little energy to supply muons for later reactions. Most investigators went on pursuing other methods of stimulating fusion.

Nevertheless, some workers continued to study muon-catalyzed fusion. Investigators found that muons can catalyze fusion through several processes other than those first observed. The Alvarez group had seen reactions involving only deuterium and ordinary hydrogen, but it became clear that muons could catalyze reactions involving deuterium and tritium much more quickly. V. P. Dzelepov and his colleagues at the Joint Institute for

# Observation of cold nuclear fusion in condensed matter

S. E. Jones\*, E. P. Palmer\*, J. B. Czirr\*, D. L. Decker\*, G. L. Jensen\*, J. M. Thorne\*, S. F. Taylor\* & J. Rafelski†

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†Department of Physics, University of Arizona, Tucson, Arizona 85721, USA

When a current is passed through palladium or titanium electrodes immersed in an electrolyte of deuterated water and various metal salts, a small but significant flux of neutrons is detected. Fusion of deuterons within the metal lattice may be the explanation.

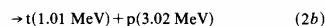
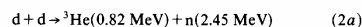
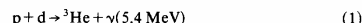
FUSION of the nuclei of isotopes of hydrogen is the principal means of energy production in the high-temperature interiors of stars. In relatively cold terrestrial conditions, the nuclei are surrounded by electrons and can approach one another no more closely than is allowed by the molecular Coulomb barrier. The rate of nuclear fusion in molecular hydrogen is then governed by quantum-mechanical tunnelling through that barrier, or equivalently, the probability of finding the two nuclei at zero separation. In a deuterium molecule, where the equilibrium separation between deuterons (d) is 0.74 Å, the d-d fusion rate is exceedingly slow, about  $10^{-74}$  per  $D_2$  molecule per second<sup>1</sup>.

By replacing the electron in a hydrogen molecular ion with a more massive charged particle, the fusion rate is greatly increased. In muon-catalysed fusion, the internuclear separation is reduced by a factor of ~200 (the ratio of the muon to electron mass), and the nuclear fusion rate correspondingly increases by about eighty orders of magnitude. Muon-catalysed fusion has been shown to be an effective means of rapidly inducing fusion reactions in low-temperature mixtures of hydrogen isotopes<sup>2,3</sup>.

A hypothetical quasi-particle a few times as massive as the electron would increase the cold fusion rate to readily measurable levels of  $\sim 10^{-20}$  fusions per d-d molecule per second<sup>1</sup>. The results reported here imply that a comparable distortion of the internuclear wavefunction can be realized when hydrogen isotope nuclei are loaded into metals under certain conditions. We have discovered a means of inducing nuclear fusion without the use of either high temperatures or radioactive muons.

## Indirect evidence

Observations of naturally occurring  $^3\text{He}$  in the Earth suggested to us new directions for laboratory investigations of nuclear fusion in condensed matter.  $^3\text{He}$  is produced by the following fusion reactions:



Tritium (t) decays with a 12.4-yr half-life to produce  $^3\text{He}$ . The well established high  $^3\text{He}/^4\text{He}$  ratio in solids, liquids and gases associated with volcanoes and other areas of high heat flow<sup>4-6</sup> suggests fusion as a possible source for the  $^3\text{He}$ .

To estimate a possible rate of fusion in the Earth, we assume a simple, steady-state model in which the known flux of  $^3\text{He}$  out of the mantle,  $2 \times 10^{19}$   $^3\text{He}$  atoms per second<sup>7</sup>, arises from p-d fusion occurring uniformly in the mantle water reservoir, taken as  $\sim 1.4 \times 10^{26}$  g (R. Poreda, personal communication). Note that if the Earth contains 'primordial'  $^3\text{He}$ , our calculated

rate will be an upper limit; on the other hand, if fusion-produced  $^3\text{He}$  is stored in the mantle (so that the outward flux does not equal the production rate), our value will be a lower limit. As each p-d fusion produces one  $^3\text{He}$  atom, and as the isotopic abundance of deuterium in water is  $\sim 1.5 \times 10^{-4}$  deuterons per proton, we infer a geological fusion rate constant,  $\lambda_f$ , of

$$\lambda_f \approx \frac{2 \times 10^{19} \text{ } ^3\text{He atoms s}^{-1}}{1.4 \times 10^{43} \text{ deuterons}} \\ \approx 10^{-24} \text{ fusions d}^{-1} \text{ s}^{-1} \quad (3)$$

This rate is fifty orders of magnitude larger than that expected in an isolated HD molecule, and fusion at this rate could be detected if reproduced in the laboratory.

Cold nuclear fusion may be important in celestial bodies other than the Earth. Jupiter, for example, radiates about twice as much heat as it receives from the Sun. It is interesting to consider whether cold nuclear fusion in the core of Jupiter, which is probably metallic hydrogen plus iron silicate, could account for its excess heat. Heat is radiated at an approximate rate of  $10^{18}$  watts, which could be produced by p-d fusions occurring at a rate of  $10^{30} \text{ s}^{-1}$ . Assuming a core of radius  $4.6 \times 10^9$  cm, containing mostly hydrogen, with density  $\sim 10 \text{ g cm}^{-3}$  and a deuteron/proton ratio of  $\sim 10^{-4}$ , we deduce a required p-d fusion rate of  $\lambda_f \approx 10^{-19} \text{ fusions d}^{-1} \text{ s}^{-1}$  if all the heat derives from fusion. Catalysed nuclear fusion at this rate could be readily measured in the laboratory.

Further evidence for cold nuclear fusion in condensed matter comes from studies of  $^3\text{He}$  and  $^4\text{He}$  in metals. There have been several reports of high  $^3\text{He}$  concentrations in metal crucibles and foils (H. Craig, R. Poreda, A. Nier, personal communications), consistent with *in situ* formation by cold fusion. In particular, Mamyrin *et al.*<sup>8</sup> report the occurrence of patchy, high concentrations of  $^3\text{He}$  in a number of metal foils. Electrolytic refining of the metals could have provided the appropriate conditions for the cold nuclear fusion reactions (1) and possibly (2). Among several possible explanations for the observations, the authors suggest an analogue of muon catalysis<sup>8</sup>.

## Detection of cold-fusion neutrons

The considerations outlined above led to laboratory experiments performed at Brigham Young University to determine whether cold nuclear fusion can actually occur in condensed matter. We now report the observation of deuteron-deuteron fusion at room temperature during low-voltage electrolytic infusion of deuterons into metallic titanium or palladium electrodes. The fusion reaction (2a) is apparently catalysed by the deposition of d<sup>+</sup> and metal ions from the electrolyte at (and into) the negative electrode. Neutrons with an energy of  $\sim 2.5$  MeV are clearly detected with a sensitive neutron spectrometer. The experimental layout is shown in Fig. 1.

The neutron spectrometer, developed at Brigham Young University over the past few years (ref. 9 and manuscript in preparation) has been crucial to the identification of this cold fusion process. The detector consists of a liquid organic scintillator (BC-505) contained in a glass cylinder 12.5 cm in diameter, in

Peer-reviewed article in *Nature*, April 1989

## RECENT RESEARCH CONFIRMS METAL-CATALYZED FUSION, 100% reproducible 9 years after 1989 *Nature* paper.

1. J. Kasagi, *et al.*, ICCF-7 Proc. (1998); H. Yuki, *et al.*, JETP Letters, 68:823 (1998).

"The occurrence of nuclear reactions in condensed matter at room temperature or so-called 'cold fusion' requires an anomalously large enhancement of the reaction rate.... As reported at the ICCFG, we have started a series of measurements of the D(d,p)T reaction in metal with the bombarding energies down to 2 keV, in order to investigate whether the reaction in metal is really enhanced or not. Previous results on Ti and Yb clearly show that the d-d fusion reaction rate is enhanced in metal and depends on the kind of host metal.... Yields of the D(d,p)T reaction in Pd and PdO [and Ta] ... are surprisingly large ... This is very significant, since a simple extrapolation of the reaction allows us to observe the nuclear reaction at room temperature" [like the BYU claims; referenced in the paper].

2. K. Czerski, *et al.*, Europhys. Lett., 54:449-455 (2001). "Enhancement of the electron screening effect for d+d fusion reactions in metallic environments."

"The experimentally determined values of the screening energy are about one order of magnitude larger than the value achieved in a gas target experiment and significantly larger than the theoretical predictions. A clear target material dependence of the screening energy has been established." "...the observed enhancement of the electron screening in metal targets can, in tendency, explain the small neutron production rates observed in the cold-fusion experiment of Jones [reference 1989 Nature paper]. According to calculations of Hora *et al.* [1993 paper, also refers to the Jones *et al.* paper], the corresponding value of the screening energy should amount to about 470 eV."



# Metal-Catalyzed Fusion Confirmed

BYU Hypothesis (1985-86): **"Metals catalyze nuclear fusion, and some metals will enhance fusion more than others."**

**[Note: Pons and Fleischmann claims of (aneutronic) cold fusion are NOT confirmed by these results nor by our work!]**

Table of Empirical d-d Fusion Enhancement Factors

Material <sup>4</sup>	U <sub>e</sub> (eV)
D <sub>2</sub> gas <sup>1</sup>	25 ± 5
Pd	800±90
Sb	720±70
Pt	670±50
Co	640±70
Au/Pd/PdO <sup>2</sup>	601±23
Tl	550±90
Bi	530±60
Al	520±50
In	520±50
Ba	490±70
V	480±60
Pb	480±50
Zn	480±50
Cu	470±50
Nb	470±60
Fe	460±60
Mg	440±40
Mo	420±50
Mn	390±50
Ni	380±40
Cd	360±40
Ag	330±40
Ta <sup>3,4</sup>	322±15
Cr	320±70
Pd <sup>3</sup>	280±30
Au	280±50
Ta	270±30
W	250±30
Rh	230±40
Re	230±30
Ru	215±30
Sr	210±30
Ir	200±40
Be	180±40
Sn	130±20

Material <sup>4</sup>	U <sub>e</sub> (eV)
Sc	≤30
Ti	≤30
Y	≤70
Zr	≤40
Lu	≤40
Hf	≤30
La	≤60
Ce	≤30
Pr	≤70
Nd	≤30
Sm	≤30
C	≤60
Si	≤60
Ge	≤80
Eu	≤50
Gd	≤50
Tb	≤30
Dy	≤30
Ho	≤70
Er	≤50
Tm	≤70
Yb	≤40
BeO	≤30
B	≤30
Al <sub>2</sub> O <sub>3</sub>	≤30
CaO <sub>2</sub>	≤50

Table of d-Li Fusion Enhancement Factors

Material <sup>5</sup>	U <sub>e</sub> (eV)
Pd-Li	1500±310
Au-Li	60±150
Li metal	?

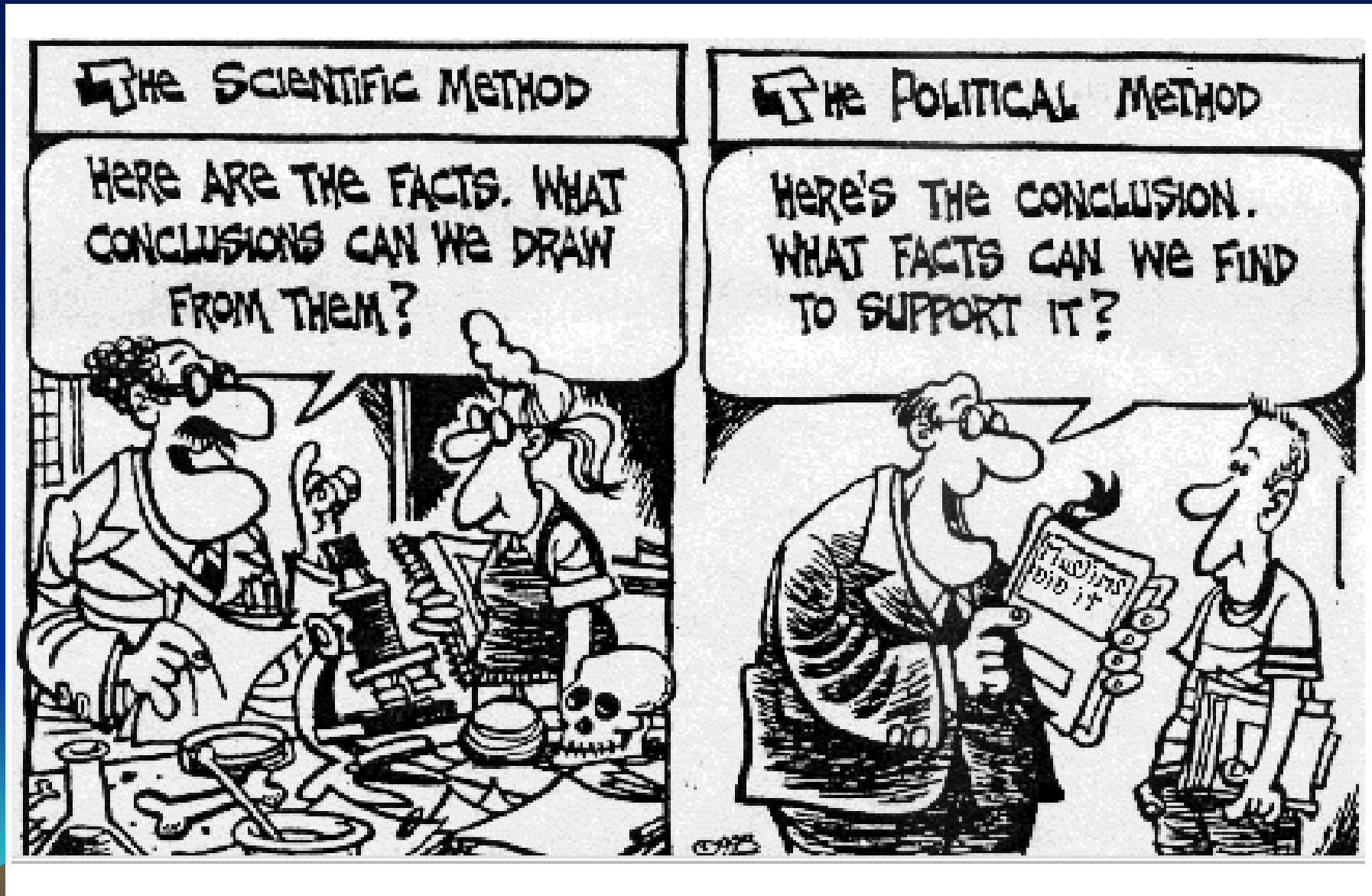
1. U. Griefe, *et al.*, Z. Phys. **A351**:107 (1995).
2. H. Yuki, J. Kasagi, A.G. Lipson, *et al.*, JETP Letters, **68**:823 (1998).
3. K. Czerski, *et al.*, Europhys. Lett. **54**:449 (2001).
4. F. Raiola, *et al.*, Eur. Phys. J. **A19**:283 (2004).
5. J. Kasagi, *et al.*, J. Phys. Soc. Japan, **73**:608 (2004).

# What is the Scientific Method?

- Gather observations – Evidence
- Make hypothesis to explain
- EXPERIMENTS to test hypothesis → DATA
- Refine or reject hypothesis, more experiments
- PUBLISH in peer-reviewed venues
- Repeat above cycle, others joining in...
- Generate Theory / Model of reality



## // The “Unscientific Method”



# Peer-reviewed Papers are Significant!

Ask: “Has that idea passed peer-review and been published?”

- Part of the modern Scientific Method process
- Brings discipline to a field of study
- Helps sort out fact from fiction

- *The Hidden History of 9-11-2001*, Paul Zarembka, editor, Elsevier, Research in Political Economy, vol. 23, May 2006.



- *9/11 And The American Empire: Intellectuals Speak Out*, David Ray Griffin and Peter Dale Scott, editors (Sept. 2006)

# Are there any publications that support you, refute you?

- FEMA report [May 2002] authors conclude:
- **“The specifics of the fires in WTC 7 and how they caused the building to collapse remain unknown at this time.** Although the total diesel fuel on the premises contained massive potential energy, **the best hypothesis [fire then complete collapse] has only a low probability of occurrence. Further research, investigation, and analyses are needed to resolve this issue.”**
- **On this we definitely agree!**





## **Structural Engineers** strongly criticize the final NIST report on WTC collapses: *New Civil Engineer*, October 6, 2005.

- “World Trade Center disaster investigators [at NIST] are **refusing to show computer visualizations of the collapse of the Twin Towers despite calls from leading structural and fire engineers**, NCE has learned.
- “Visualisations of collapse mechanisms are **routinely used to validate** the type of finite element analysis model used by the [NIST] investigators.
- “The collapse mechanism and the role played by the hat truss at the top of the tower has been the focus of debate since the US National Institute of Standards & Technology (NIST) published its findings....
- “University of Manchester [U.K.] **professor of structural engineering** Colin Bailey said there was a lot to be gained from visualising the structural response. “**NIST should really show the visualisations; otherwise the opportunity to correlate them back to the video evidence and identify any errors in the modeling will be lost**,” he said....
- “A leading US structural engineer said NIST had obviously devoted enormous resources to the development of the impact and fire models. “By comparison the global structural model is not as sophisticated,” he said. “**The software used [by NIST] has been pushed to new limits, and there have been a lot of simplifications, extrapolations and judgment calls.**”

# Comments from a Structural Engineer / Architect

- “It occurred to me that structural engineers and architects are practitioners of static physics [like yourself] although we use different terminology peculiar to our professions to elaborate on our designs.
- “I am surprised how few of my colleagues have expressed public disbelief at the official line which lurches from theory to theory as the shortcomings of each became apparent. I guess they have run out of ideas on Building 7.
- “You nailed the biggest problem when you focused on the symmetry of collapse in comparison to the asymmetry of the damage... Steel high rises are designed (and overdesigned) as cantilever beams on end. There is so much redundant steel in these buildings because they have to resist hurricane force winds. Was there a hurricane in New York on Sept 11?
- “If steel framed structures designed by world class engineers (who are still being commissioned to design high rises elsewhere in the world) can collapse with so little provocation, I should send my diploma back and take up fortune telling.”



# Strong critiques of official FEMA report also

- “Respected members of the fire protection engineering community are beginning to **raise red flags**, and a resonating [result] has emerged: **The structural damage from the planes and the explosive ignition of jet fuel in themselves were not enough to bring down the towers.**
- “Fire Engineering has good reason to believe that the **"official investigation" blessed by FEMA... is a half-baked farce that may already have been commandeered by political forces whose primary interests, to put it mildly, lie far afield of full disclosure.** Except for the marginal benefit obtained from a three-day, visual walk-through of evidence sites conducted by ASCE investigation committee members-described by one close source as a "tourist trip"-no one's checking the evidence for anything.
- “Some citizens are taking to the streets to protest the investigation sellout. Sally Regenhard, for one, wants to know why and how the building fell as it did upon her unfortunate son Christian, an FDNY probationary firefighter. And so do we.
- “**Clearly, there are burning questions that need answers. Based on the incident's magnitude alone, a full-throttle, fully resourced, forensic investigation is imperative. More important, from a moral standpoint, [are considerations] for the... present and future generations...**” Bill Manning, Editor, Fire Engineering, Jan. 2002

# Published challenge to Jones, not peer-reviewed...

- “After reading in the Daily Herald [newspaper] the presentations made by Professor Steven E. Jones (BYU Physics) to students at UVSC and BYU, I **feel obligated to reply to his "Conspiracy Theory"** relating to the terrorist attacks on the World Trade Center (9/11/01)...
- **“The structural design of the towers was unique in that the supporting steel structure consisted of closely spaced columns in the walls of all four sides. The resulting structure was similar to a tube...**
- **“It is easy to comprehend the loss of carrying capacity of all the structural steel due to the raging fires** fed by the jet's fuel as well as aircraft and building contents.”
- **Dr. Allan Firmage, BYU Emeritus Professor of Structural Engineering**
- D. A. Firmage. (April 10, 2006). “Refuting 9/11 conspiracy theory,” *The College Times*, p. A6.

# Allan Firmage's premise is WRONG.

- The Towers' structure was NOT “similar to a tube” in which the “the supporting steel structure consisted of closely spaced columns in the walls of all four sides” There is much more support than that!
- Take a look for yourself: in addition to the columns in the walls of the four sides, there were 47 huge and interconnected steel columns in the CORE of each Tower. VERY strong cores.
- The NIST report stated that the CORE columns supported about half the weight in each Tower:
- “As stated above, the core columns were designed to support approximately 50% of the gravity loads.” So Dr. Firmage is wrong.
- NCSTAR 1-1, page 11  
(<http://wtc.nist.gov/NISTNCSTAR1-1.pdf>)





# Full letter to the editor, for completeness

- Dear Editor,
- After reading in the *Daily Herald* the presentations made by Professor Steven E. Jones (BYU Physics) to students at UVSC and BYU, I feel obligated to reply to his "Conspiracy Theory" relating to the terrorist attacks on the World Trade Center (9/11/01).
- I have studied the **summary** of the report by FEMA, The American Society of Civil Engineers and several other professional engineering organizations. These experts have given in detail the effects on the Towers by the impact of the commercial aircraft. I have also read Professor Jones' (referred to) 42 page unpublished report. In my understanding of structural design and the properties of structural steel I find Professor Jones' thesis that planted explosives (rather than fire from the planes) caused the collapse of the Towers, very unreliable.
- The structural design of the towers was unique in that **the supporting steel structure consisted of closely spaced columns in the walls of all four sides. The resulting structure was similar to a tube.\*** When the aircraft impacted the towers at speeds of about 500 plus mph, many steel columns were immediately severed and others rendered weak by the following fires. The fires critically damaged the floors systems. Structural steel will begin to lose strength when heated to temperatures above 1000 degrees Fahrenheit. Steel bridge girders are bent to conform to the curved roadway by spot heating flanges between 800 and 1000 degrees Fahrenheit. It is easy to comprehend the loss of carrying capacity of all the structural steel due to the raging fires fed by the jet's fuel as well as aircraft and building contents.
- Before one (especially students) supports such a conspiracy theory, they should investigate all details of the theory. To me a practicing structural engineer of 57 continuous years (1941-1998), Professor Jones' presentations are very disturbing.
- D. Allan Firmage
- Professor Emeritus, Civil Engineering, BYU
- **\*I would like to learn the source of this misinformation. Basically the same "false premise" was raised to me by another BYU civil engineering professor.**
- **The 47 core columns were made of strong steel and were interconnected, like a biological structure – NOT "free standing stilts" (NOVA program)**

Experiments: **Models of WTC floor assemblies**, subjected to intense fires, **did not melt** and did not collapse!

- Quoting from the final NIST report:
- **“NIST contracted with Underwriters Laboratories, Inc. to conduct tests to obtain information on the fire endurance of trusses like those in the WTC towers....**
- **“All four test specimens sustained the maximum design load for approximately 2 hours without collapsing...**
- **“The results established that this type of assembly was capable of sustaining a large gravity load, without collapsing, for a substantial period of time relative to the duration of the fires in any given location on September 11.”** (NIST, 2005, p. 141; emphasis added.)



# Has BYU muzzled you?

- The answer is no.
- An outsider-with-government-contacts made “arguments” to have my paper stopped...
- But BYU supported my right to publish, citing “Academic Freedom.” The paper has been published (after 2<sup>nd</sup> round of peer-reviews!)
- Peer-review questions were settled; “distancing” statements by BYU Engineering College were removed from their site
- My College Dean suggested that *he* would not give interviews... but did not forbid these

# What data finally convinced you as a scientist that 9/11 was an “inside job”?

- A: Molten metal, yellow-hot and in large quantities... and analyses of previously molten metal and WTC dust, and of high-temperature sulfidation of WTC steel.
- Note: Most of the following results have been presented previously at the 2006 meeting of the Utah Academy of Sciences.
- (The paper is thus now in the public domain.)
- I am NOT saying WHO specifically was involved – that will require some type of criminal investigation to determine. Such an investigation is highly motivated by the evidence.

**Video Footage of Molten Metal Dropping from WTC Tower 2 Just Prior to Collapse on Sept 11th 2001. [Molten iron mostly, not steel, per analyses we have done.] Please see:**

**<http://video.google.com/videoplay?docid=-2991254740145858863&q=cameraplanet+9%2F11>**

**<http://video.google.com/videoplay?docid=-8564772103237441151&q=cameraplanet+9%2F11>**

**Above TWO videotapes are spliced together and shown with thermite reaction for side-by-side comparison, here:**

**<http://www.veronicachapman.com/checktheevidence/Thermite.htm>**



There's more: NIST, Appendix C: **“Unusual flame..” “very bright flame.. which is generating a plume of white smoke” WTC2, a few minutes before collapse**



Fig. H-21 (left). NIST report  
[http://wtc.nist.gov/progress\\_report\\_june04/appendixh.pdf](http://wtc.nist.gov/progress_report_june04/appendixh.pdf), WTC2 same corner,



- Note white plume of “smoke” (metal oxide, not normal fire) also yellow-white color of falling molten metal
- NIST says molten metal is “consistent with it being molten aluminum”. White plume is consistent with aluminum oxide, BUT:
- Since when does flowing molten aluminum appear yellow, in daylight conditions?

- “Finally, **an unexplained cascade of molten metal from the northeast corner of the south tower just before it collapsed** might have started when a floor carrying pieces of one of the jetliners began to sag and fail. **The metal was probably molten aluminum from the plane** and could have come through the top of an 80th floor window as the floor above gave way, Dr. Pitts [NIST] said. **“That’s probably why it poured out — simply because it was dumped there,” Dr. Pitts said. “The structural people really need to look at this carefully.”**

**New York Times**, New Evidence Is Reported That Floors Failed on 9/11, James Glanz, 3 Dec 2003

- <http://www.nytimes.com/2003/12/03/nyregion/03TOWE.html?ei=5007&en=a2c62eb2b42cf30c&ex=1385874000&adxnnl=1>
- Physicists need to look at this, too!
- **Metals incandesce and glow according to temperature, yes — but aluminum has very low emissivity and high reflectivity. So in low-light conditions, it can be seen to glow pinkish red when melted. But in daylight, as at the WTC, what would flowing molten aluminum look like?**

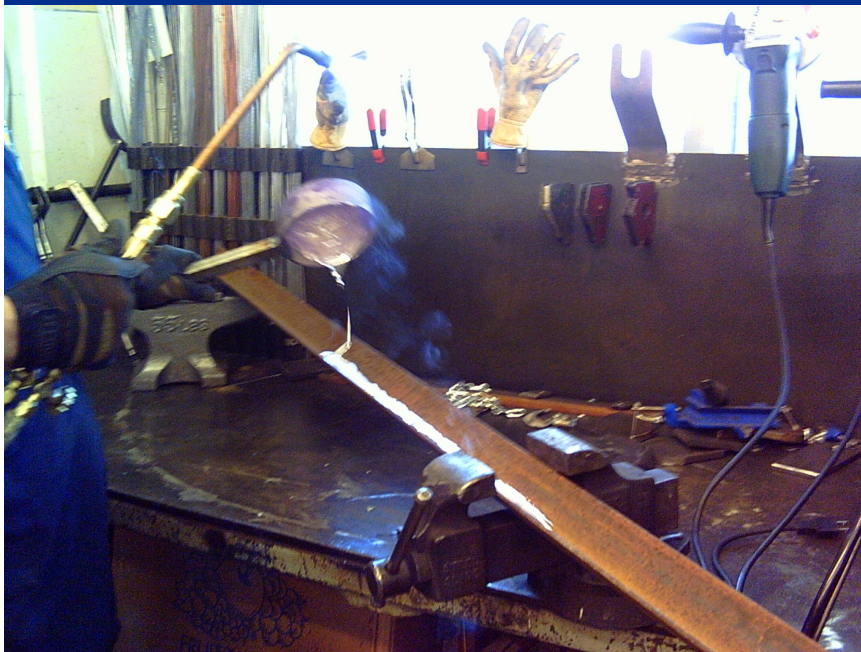




# Experiments with Molten Aluminum BYU, Winter 2006

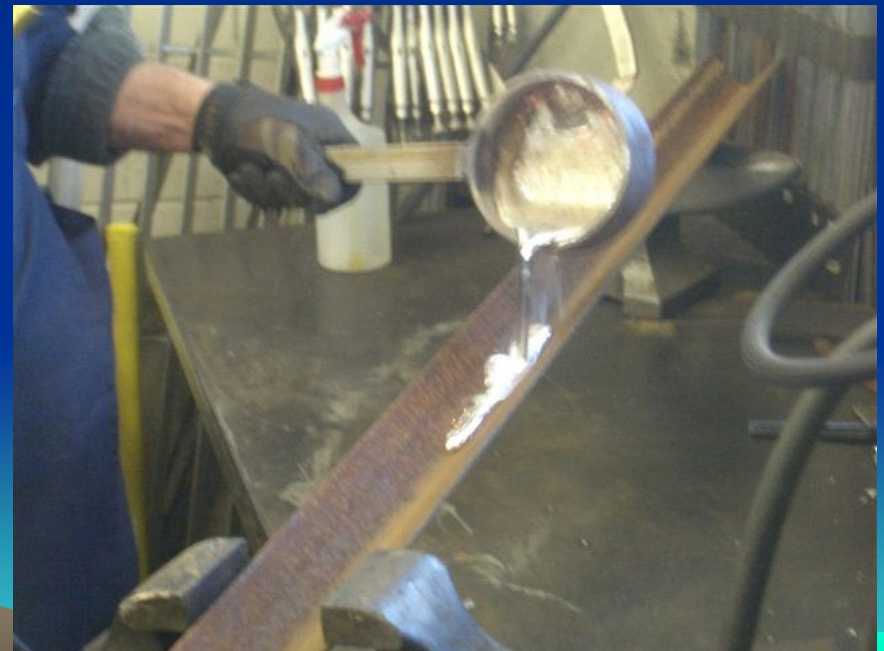


**1. Falling molten aluminum in daylight conditions (like 9-11 WTC) is silvery-straw-gray at all temperatures. But the WTC molten metal is yellow-white in color – hence, NOT molten aluminum.**



**BYU Experiments:**

**Aluminum hit with torch did NOT catch fire;  
Aluminum alloy melts and FLOWS at approx 600 °C;  
No violent aluminum-rusty steel or  
aluminum-gypsum/concrete/plastic reactions  
(Experiments contradict F. Greening's predictions; see full  
paper <http://www.scholarsfor911truth.org/ExptAlMelt.doc> )**





BYU experiment (May 2006): **orange-yellow-hot steel cup pouring out liquid aluminum (silvery color of flowing molten aluminum observed)**  
onto **pre-heated rusty steel**  
plus wet gypsum and concrete: **No exothermic reactions seen.**  
(Experiments again contradict F. Greening's predictions;  
see full paper <http://www.scholarsfor911truth.org/ExptAlMelt.doc> )



# Greening's oxygen tank hypothesis

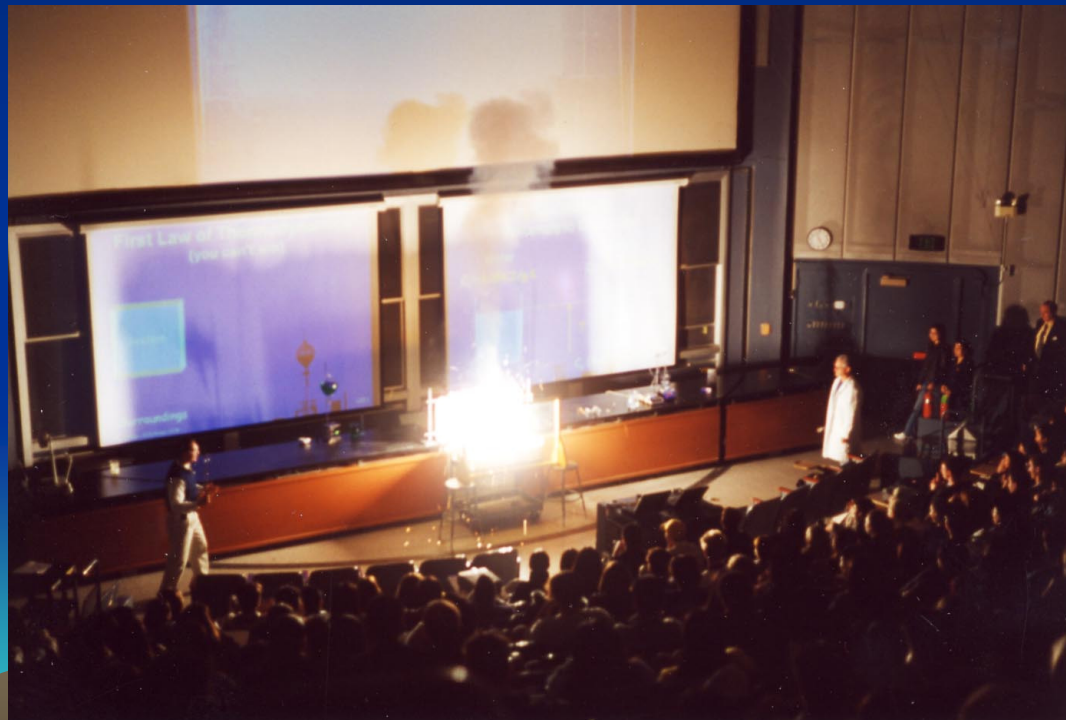
- We have shown how our experiments knocked down Greening's hypothesis of molten aluminum causing significant exothermic reactions when falling on crushed gypsum, concrete, plastic, rusty steel, etc. (above), thus melting the structural WTC steel.
- F. Greening's latest hypothesis (another try) is this: oxygen tanks from planes somehow survived the plane crashes and the fireballs, yet failed (evidently at about the same time) about an hour later to release the oxygen in the tanks.
- This relatively small amount of oxygen was somehow enough, he suggests, to burn office materials such as to melt the structural steel in the building, to produce the LARGE metal flow seen at yellow-hot temperature, flowing from WTC2.
- (Greening quoted here:  
<http://8real.proboards104.com/index.cgi?board=phony&action=display&thread=1155285629>)
- However, the proposed situation **does NOT feed fuel in** (i.e., not like an oxy-acetylene torch)
- Have any other buildings with O2 tanks (like hospitals) had fires in which structural steel melted in large quantities? No evidence for this! **The scientific method dictates the need for empirical evidence to back up claims.**
- Also, even if the tanks survived the plane crashes (highly unlikely), to melt steel would require STEEL (not air) temperature of over 2,700 degrees F – while the steel structure is wicking the heat away from the heat source! Greening needs to consider heat transport in his calculations (he also needs to do the calculations).
- Furthermore, WTC 7 also showed a large pool of hot (confirmed by infrared photos) molten metal under the WTC 7 rubble. But NO PLANE hit WTC 7, so this latest hypothesis fails from the outset in this case.
- We find in the previously-molten metal samples significant concentrations of **FLUORINE** and other unusual elements (data shown later in this presentation). Fluorine is a fairly common fingerprint in thermite mixtures, as we shall see. Does Greening (or anyone else) have an explanation (other than thermite-mixtures) for the presence of Fluorine? We have not found any explanation other than THERMITE mixtures, which accounts for the Fluorine and ALL the rest of the observed data (high-temp. sulfidation, large pools and flowing metal, etc.)



# What is THERMITE?

**Aluminum (powder) + Iron oxide →  
Aluminum oxide (white plume)  
+ Molten Iron (yellow-white hot)**

Fineness of thermite powder determines the speed of reaction, cuts through steel in seconds – or **explosively** for ultra-fine “**superthermite**”



# Aluminothermic = thermite-type reactions

- **Aluminum powder**
- Finely divided, for incendiary use (slow-burn)
- Ultra-fine (nanoaluminum) for explosives (called superthermites)

- **METAL OXIDES AND OTHER OXIDIZERS**

- Iron oxide
- Molybdenum oxide
- Copper oxide, etc.
- $\text{KMnO}_4$

Plus: sulfur to cut through steel quickly, “thermate”;

1,3 DPP in sol-gels;  
Polytetrafluoroethylene;  
Titanium; etc.





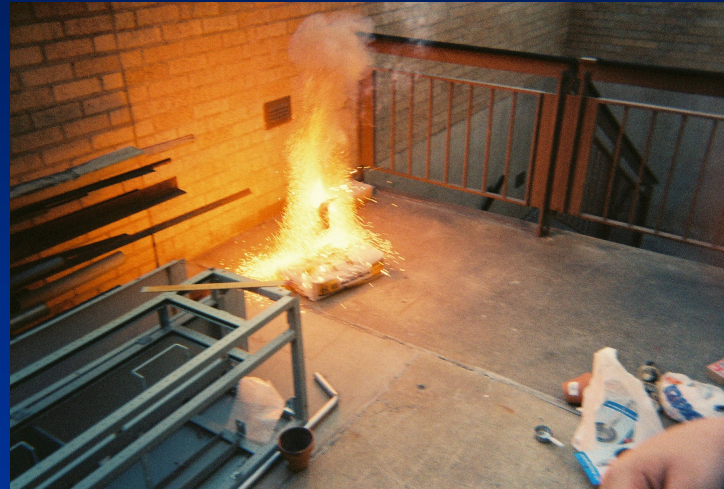
# The 9/11-WTC observations fit very well the characteristics of **thermite** reactions (So. Tower and BYU experiments)

- (1) White-hot reaction zone (photo below from NIST report)
- (2) White aluminum oxide ash floats upward from reaction

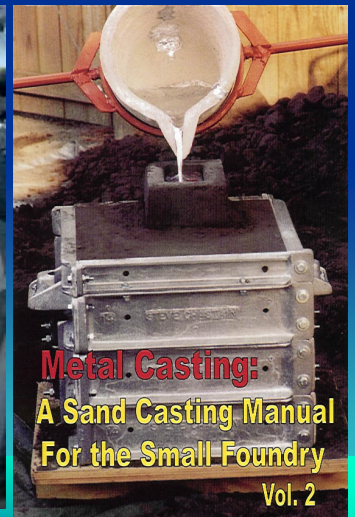




**Molten metal mystery at WTC (left)... Is it more like molten iron from Thermite(upper right)? Or more like pouring molten aluminum (bottom right, 2 photos)**



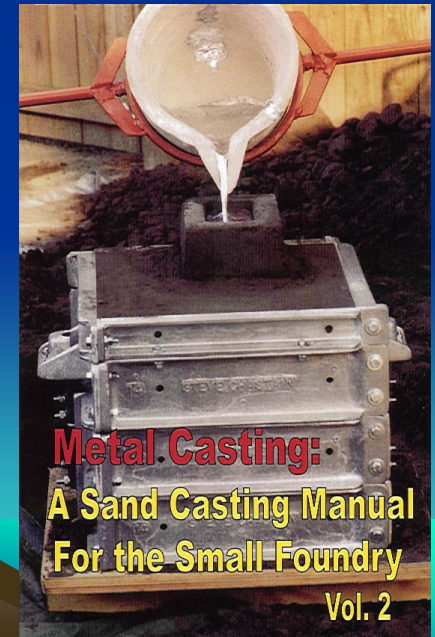
- Thanks to Brian Vasquez & Michelle Jones for contributing here!



## Photos below show liquid IRON, not aluminum!



- Friends wrote me that some have used photos (left) to say that liquid aluminum has yellow-white-hot glow even when poured out in lighted conditions...
- So I wrote to the foundry where photo (left) was taken; reply: "The metal pouring is **ferrous**." (Ferrous means mostly iron.) That's what I thought!
- <http://www.caro.co.uk/index.php?pageid=946&section=Maybrey%20Reliance>
- The two photos at bottom left likewise show liquid IRON, not aluminum – clarification by Stephen D. Chastain who actually took the photos and works with liquid metals. He wrote, in response to questions about these photos (thought by some to be aluminum):
- "Those are both photos of iron. Aluminum is silver as seen on the cover of Metal Casting vol. 2" – bottom right.
- Left: ferrous/iron being
- poured out.
- Lower, right: this is poured-
- out liquid aluminum, silvery
- in color. We see the
- difference clearly, and that
- the metal flowing out of the
- WTC (previous slide)
- clearly has the appearance of
- flowing liquid iron, and not
- that of liquid aluminum.
- <http://8real.proboards104.com/index.cgi?board=phony&action=display&thread=1155285629>
- Thanks to Brian Vasquez for
- Research.





**Molten metal mystery at WTC... Thermite experiments at  
BYU (showing slag after reaction, right)...**

**“Fires burned and molten [metal] flowed in the pile of ruins  
still settling beneath [Sarah Atlas] feet.” Penn Arts and Sciences,  
summer 2002. **CLEARLY BEFORE CLEAN-UP BEGAN (lights on truck glowing, etc)****



# Q. Do “thermal lances” use thermite?

A. **NO!** “A **thermal lance** or **thermic lance** or **burning bar** is a tool which burns iron in an oxygen environment to create very high temperatures for cutting... An intense flame is produced at the lit end and can be used to rapidly cut through a variety of thick materials including steel and concrete. The tube is consumed, so every few minutes the operator shuts off the oxygen, discards the remaining stub of a lance and starts a new lance.

**A thermal lance does not contain thermite, contrary to popular misconception.” [Wikipedia] And the residue is NOT like that of thermite!**



Possibly peering into the yellow-white hot “core” under the WTC rubble.  
(Found by early rescue crew members under both Towers and under WTC  
7.) <http://news.bbc.co.uk/2/hi/science/nature/1858491.stm>





- **Researcher Michael Berger checked with a number of steel-cutters and workers at Ground Zero. They reported that oxy-acetylene torches were used to cut the steel members -- Not thermite**
- **Also, reacting thermite ejects globs of molten white-hot iron – would cause VERY dangerous burns! Therefore, thermite was not used in clean-up.**



# Previously molten-metal from WTC, cooled shows high iron content (rust) consistent with thermite reaction.

Such molten-metal pools never before seen (expert Blanchard interview) with controlled demolitions which did not use thermite, nor with building fires, nor with thermal lances. **HUGE QUANTITIES of the stuff.**



- Eyewitness testimony and a substantiating photographic record suggest that a large sample of slag from the World Trade Center is being held at Hangar 17 of the John F. Kennedy International Airport in New York City. Access to the slag sample should be made available to appropriate physicists in order to conduct non-destructive X-ray Fluorescence tests and other forms of examination, which should reveal evidence of the cause of the collapse of the Twin Towers. Based on these tests, we further demand two small samples (about the size of a fist) be extracted from this large piece for further scientific analysis.
- -- Scholars for 9/11 Truth petition

**Huge quantities of previously molten metal, including flow of hot liquid metal from WTC 2, rule out production during clean-up and suggest that much thermite was used to bring the buildings down.**



- **Molten metal stream, solidified, found at Ground Zero.**
- <http://oceanmirage.homestead.com/MoltenstreamSM.html>,  
[http://army.firststrike.net/nyd/damage/pages/911-damage\\_062.htm](http://army.firststrike.net/nyd/damage/pages/911-damage_062.htm)



# Molten metal pools beneath both Towers and WTC 7

“In the first few weeks, sometimes when a worker would pull a steel beam from the wreckage, the end of the beam would be dripping molten steel [or other metal]” [gcn.com/print/21\\_27a/19930-1.html](http://gcn.com/print/21_27a/19930-1.html)

	°F	°C	K
Lead (Pb) Melts	621	327	601
Faint Red	930	500	770
Blood Red	1075	580	855
<b>WTC Steel Temps due to fires (~max., NIST)</b>	1200	<b>650</b>	923
Aluminum alloy Melts	~1100	~600	~875
Medium Cherry	1275	690	965
Cherry	1375	745	1020
Bright Cherry	1450	790	1060
Salmon	1550	845	1115
Dark Orange	1630	890	1160
Orange	1725	940	1215
<b>Lemon</b>	1830	<b>1000</b>	1270
Light Yellow	1975	1080	1355
White	2200	1205	1480
<b>*Structural Steel Melts</b>	~2750	<b>~1510</b>	~1783
<b>*Iron Melts</b>	2800	1538	1811
<b>*Thermite (typical)</b>	>4,500	<b>&gt;2500</b>	>2770

QuickTime™ and a YUV420 codec decompressor are needed to see this picture.



**Photos of previously molten metal  
from WTC South Tower. ~40-pound chunk from  
a much larger salvaged sample. Small sample  
brought to BYU for analysis.**



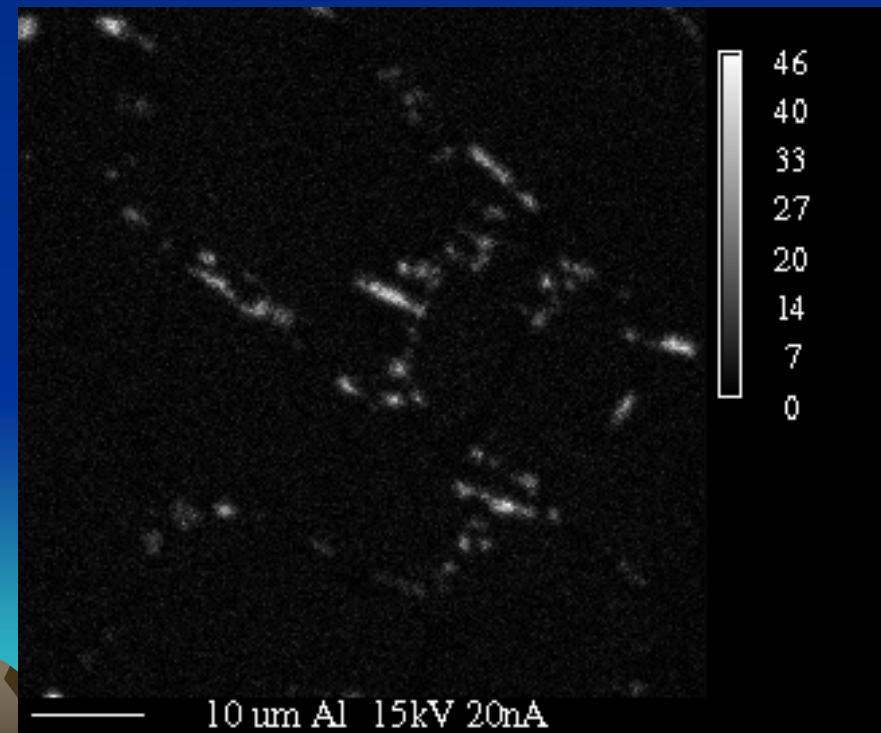
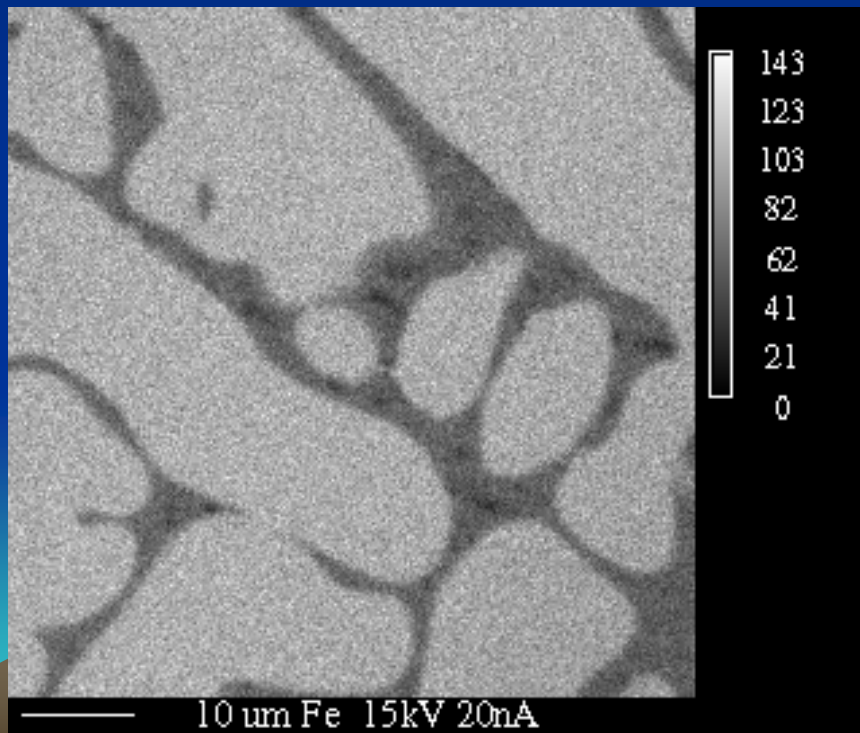


# What are your latest results?

Electron microprobe data (June 2006)

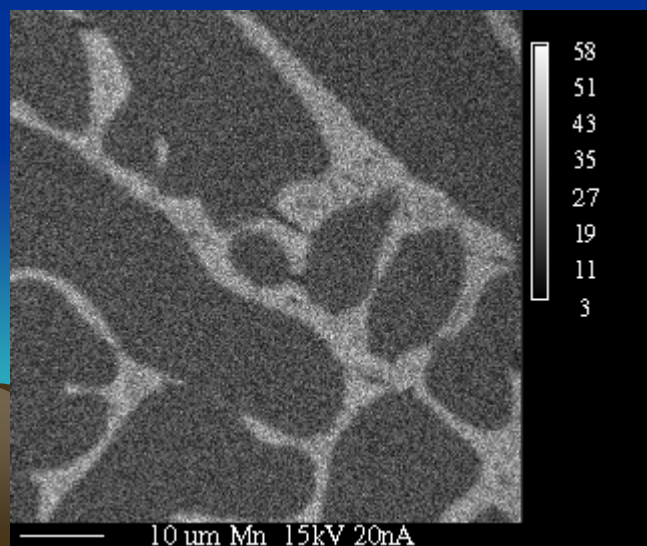
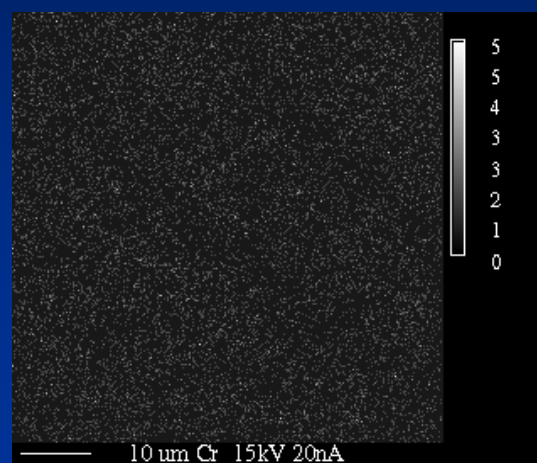
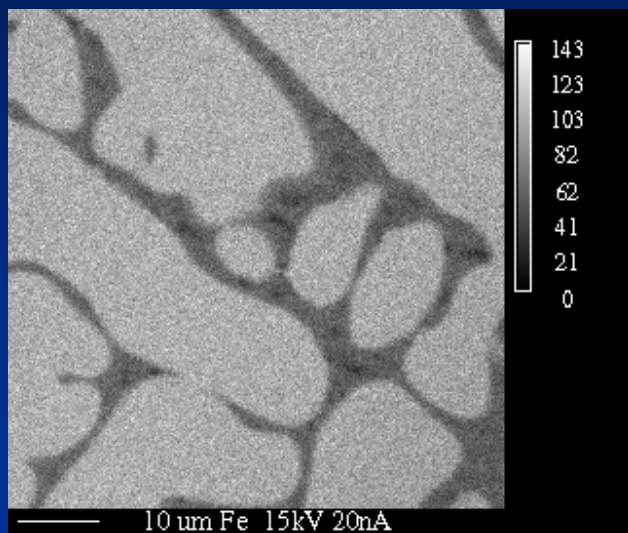
1. *Previously molten metal is predominately IRON → we can rule out molten aluminum from jet planes (along with other data described earlier)*

Lighter regions => more of that element



## Electron microprobe data (June 2006)

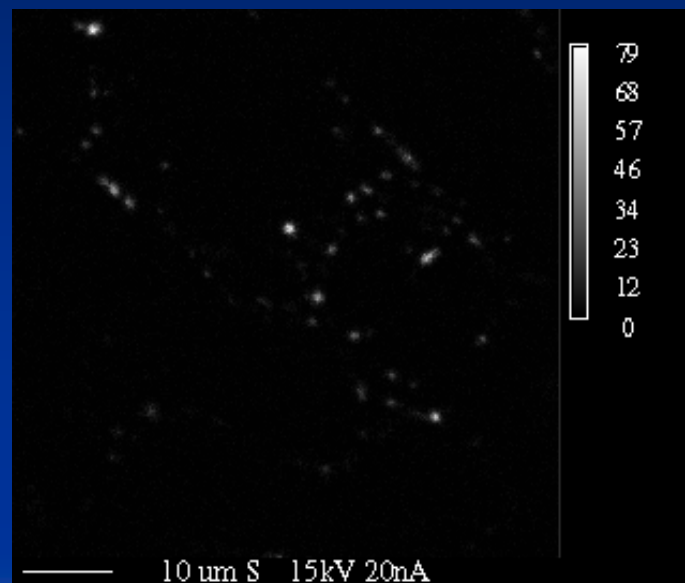
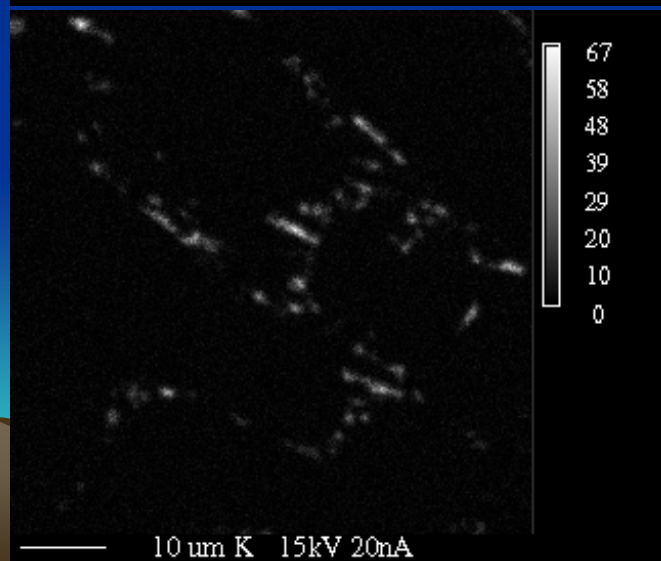
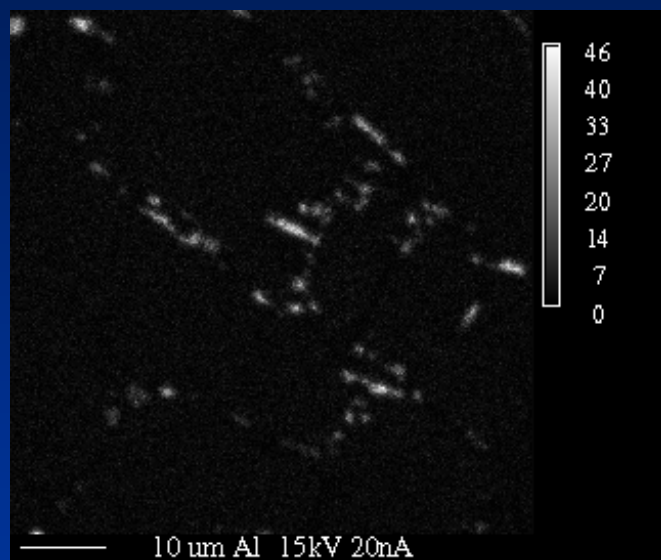
2. *Previously molten metal has very little (if any) Chromium yet abundant Manganese\* → we rule out molten structural steel (as a major component)*



- Cr is near background level.
- Mn is abundant, anti-correlated with Fe...

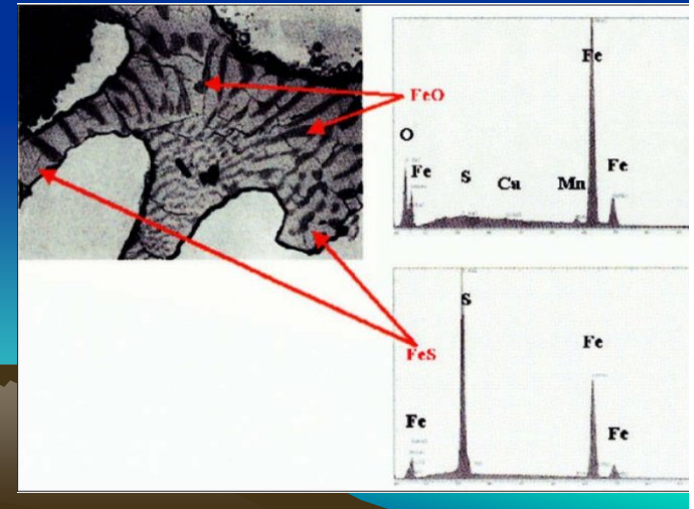
## Electron microprobe data (June 2006)

### 3. Previously molten metal has (in spots) Aluminum (Al) Sulfur (S) and Potassium (K); note associations



# MYSTERIOUS SULFIDATION OF STEEL

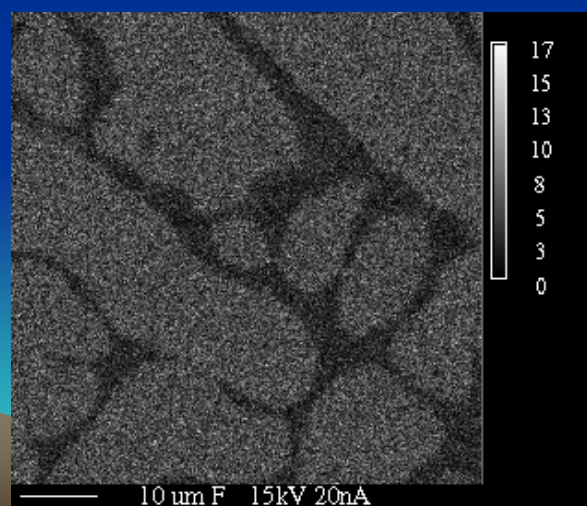
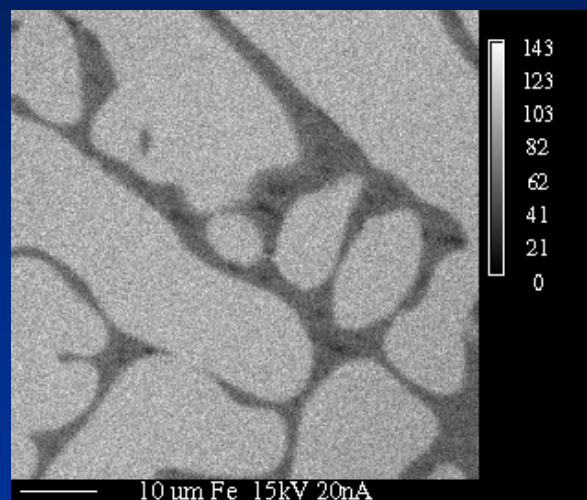
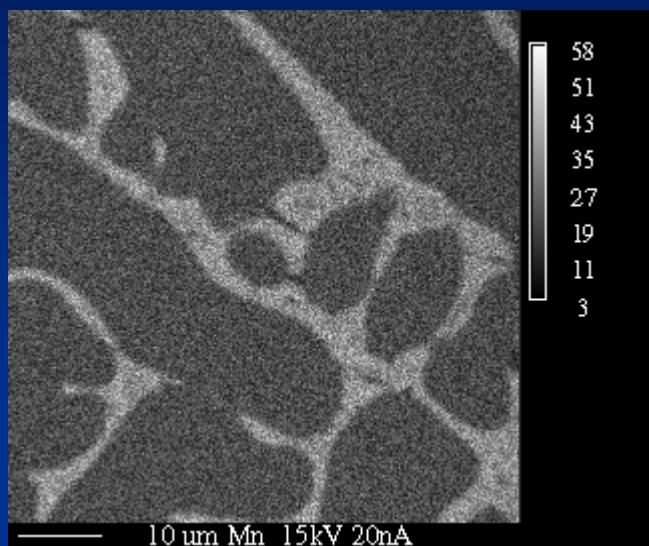
- “Evidence of a severe high temperature corrosion attack on the steel, including oxidation and sulfidation with subsequent intergranular melting, was readily visible...The severe corrosion and subsequent erosion of Samples 1 and 2 are a very unusual event. No clear explanation for the source of the sulfur has been identified.”  
<http://www.fema.gov/library/wtcstudy.shtm> FEMA, Appendix C
- [http://www.fema.gov/pdf/library/fema403\\_apc.pdf](http://www.fema.gov/pdf/library/fema403_apc.pdf)
- NY Times: “perhaps the deepest mystery uncovered in the investigation.”
- INDEPENDENT laboratory findings;
- BYU looks not at attacked-steel,
- rather at solidified metal slag.
- Sulfur is used with thermite (called “thermate”)
- to cut fast through steel





## Electron microprobe data (June 2006)

4. Previously molten metal has **Manganese** and **Fluorine** in abundance (where did **Fluorine** come from? Not from structural steel!)... more clues!





- Fluorine is present in an oxidizer using **Polytetrafluoroethylene** as its base, used in thermite charges.

<http://www.osti.gov/bridge/servlets/purl/1344-QDsu9M/webviewable/1344.pdf>

- Potassium Permanganate ( $\text{KMnO}_4$ ) is also commonly used as an oxidizer in thermite-reactants (aluminothermics).
- Hence, **K, Mn and F** are often present in thermite residue, suggesting they are part of a “thermite fingerprint” at WTC.

Technical notes on use of thermite for cutting steel (etc.) based on government-laboratory report (1998): <http://www.osti.gov/bridge/servlets/purl/1344-QDsu9M/webviewable/1344.pdf>

- The thermite cutting process consists of heating and melting the metal in the cutting area by the thermal energy released during combustion of a thermite mixture (under conditions of an exothermic reaction)...
- These characteristics show that the composition of the [thermite] mixtures using **polytetrafluoroethylene as a base** has a heat input **2.5–5.0 times higher** than that of the mixture based on thermite. These mixtures were tested on bench generators. The **target** consisted of plates made from Kh18NT brand **stainless steel** with dimensions of 100x 100mm and with a thickness of 2 to 6 mm, which were set up 50mm from the generator nozzle. [This is where the Fluorine could have come from: thermite mixture with polytetrafluoroethylene as a base.]
- As a result of the experimental work performed, the following conclusions were reached:
  - **Almost any metal or nonmetallic material can be subjected to thermite cutting.**
  - **The thermite cutting process can be performed in different attitudes...** [vertical cuts as well as horizontal cuts, etc.]
  - **The thermite cutting technique ensures autonomous work performance... away from electric power...**
  - The thermite cutting technique is characterized by maneuverability and the **small dimensions of its devices, which allows use of the technique in hard-to-reach locations.**
  - The pyrotechnic cutting torch can be used with **automatic and remote-control systems.**



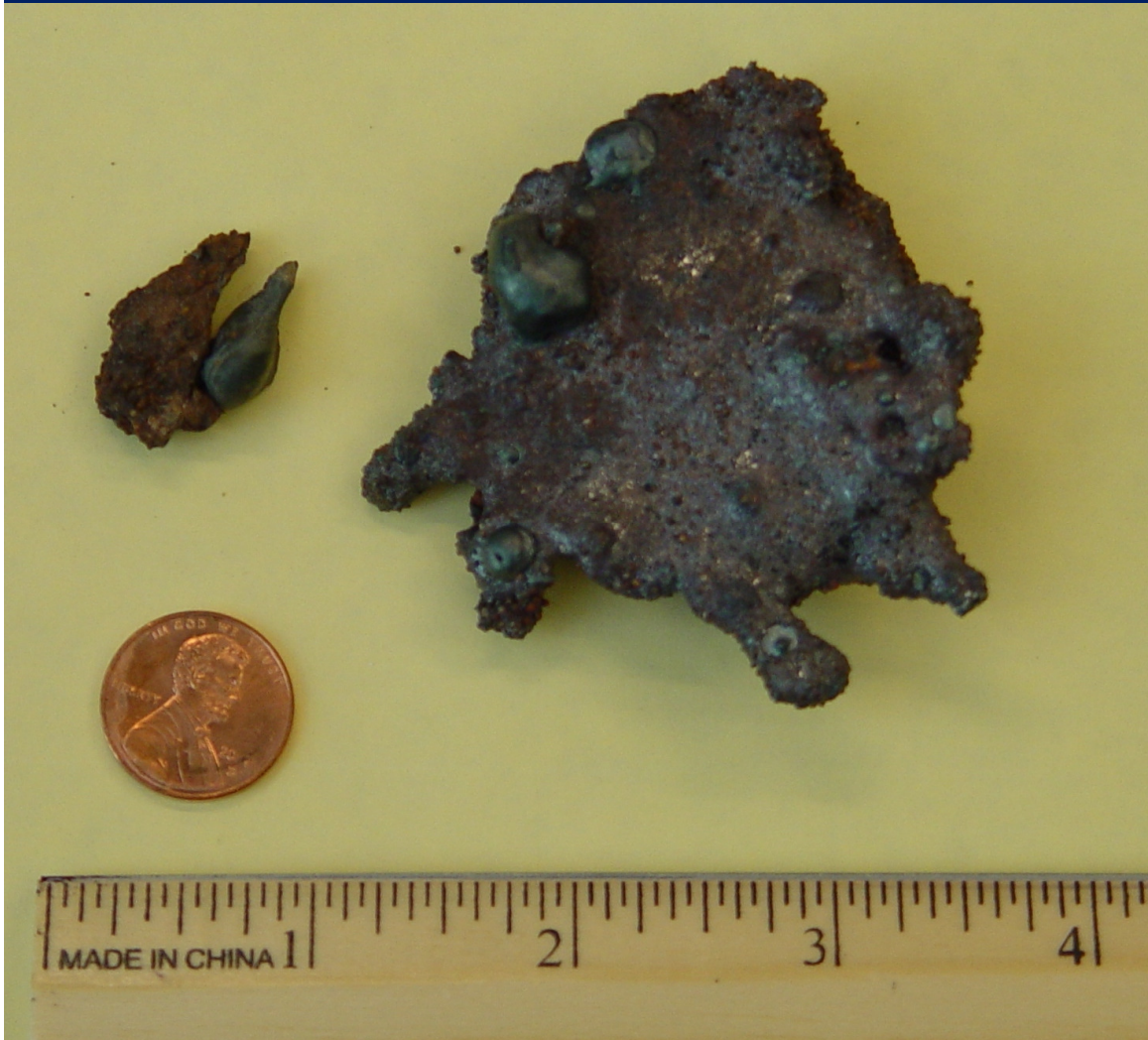
# Have you checked other samples?

Yes.



- Samples obtained from residue clinging to this 9/11 monument, years ago.
- Sent to Dr. Jones for analysis since his paper came out...
- WTC dust samples also, from NY city apartment owner

**Previously-molten porous metal samples  
clinging to WTC steel, from monument (left).  
Thermite residue (right, BYU experiment)**



- X-ray fluorescence analysis of samples (left) show
- Fe, S, K, Mn (abundant), Ca
- Plus less common elements...

# Was it Arson using Thermite? (Question suggested in Deseret News article [April 2006] based on my Utah Academy of Sciences talk)

- Note that aluminothermics (“thermites”) can be *incendiary* or *explosive*,
- Depending on the fineness of the aluminum and iron-oxide powders used.
- Evidence suggests BOTH forms were used on 9/11/2001...





# Where were the WTC samples obtained?

- “We have indeed performed electron-microprobe, X-ray Fluorescence and other analyses on samples of the solidified slag and on the WTC dust.
- **The provenience of the WTC dust sample is an apartment at 113 Cedar Street in New York City, NY.**
- **A monument constructed primarily from structural steel from the WTC Towers located at Clarkson University in Potsdam, New York, is the source of previously-molten metal samples.** Results from these studies were presented at the 2006 meeting of the Utah Academy of Science followed by the American Scholars Symposium (Los Angeles)... The research continues.”
- Quoted from Dr. Steven E. Jones’ paper:
- [http://journalof911studies.com/volume/200609/Why\\_Indeed\\_Did\\_the\\_WTC\\_Buildings\\_Completely\\_Collapse\\_Jones\\_Thermite\\_World\\_Trade\\_Center.pdf](http://journalof911studies.com/volume/200609/Why_Indeed_Did_the_WTC_Buildings_Completely_Collapse_Jones_Thermite_World_Trade_Center.pdf)
- The samples were sent directly to Prof. Jones, and inspected by him and Dr. Jeffrey Farrer together, and analyzed by the group.



- Workers attaching explosives to steel columns
- Note application of linear cutter-charge to steel column at 45-degree angle
- Preparation for a controlled demolition of a building (RDX in this case)
- From History Channel: “Wrecking ball – Modern marvels” and thanks to Robert Moore and <http://piratenews.org/911con.html>



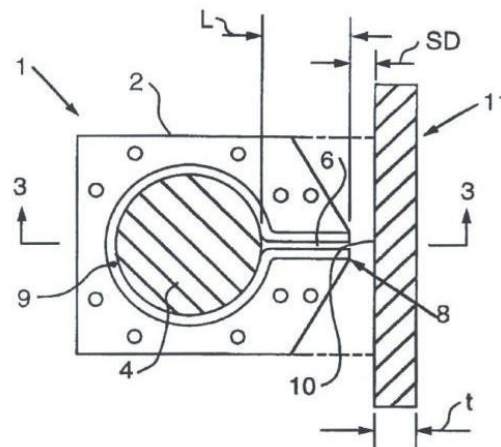
- Compare columns at WTC: Lower photo is Fig 3-5 from Eric Hufschmidt, “Painful Deceptions” The date when the photo was taken is unknown, but the columns cut at an angle are interesting, particularly when one observes black slag (such as produced by thermite) both inside and outside the angle-cut column. Several welders experienced in cutting with oxy-acetylene torches (such as used in the WTC clean-up) say that the cut in the center of the photo does not appear to have been done by an oxy-acetylene torch. Further investigation is underway.

1999: “Invention offers a **thermite** based apparatus and method for **cutting** target material [eg, steel] of a **substantial thickness**... linear.. cutting action...”

(12) <b>United States Patent</b> <b>Mohler</b>		(10) Patent No.: <b>US 6,183,569 B1</b>
		(45) Date of Patent: <b>Feb. 6, 2001</b>
(54) <b>CUTTING TORCH AND ASSOCIATED METHODS</b>	4,963,203 10/1990 Halcomb et al. 4,996,922 3/1991 Halcomb et al. 5,377,594 1/1995 Alford	
(75) Inventor: <b>Jonathan Mohler, Vero Beach, FL (US)</b>	* cited by examiner	
(73) Assignee: <b>Spectre Enterprises, Inc., West Palm Beach, FL (US)</b>	<i>Primary Examiner</i> —Scott Kastler (74) <i>Attorney, Agent, or Firm</i> —Arnold B. Silverman; William F. Lang, IV; Eckert Seamans Cherin & Mellott, LLC	
(*) Notice: Under 35 U.S.C. 154(b), the term of this patent shall be extended for 0 days.		
(21) Appl. No.: <b>09/268,379</b>		
(22) Filed: <b>Mar. 15, 1999</b>		
(51) Int. Cl. <sup>7</sup> <b>B23K 7/00</b>		
(52) U.S. Cl. <b>148/194; 266/48</b>		
(58) Field of Search <b>266/48; 102/307; 148/194</b>		
(56) <b>References Cited</b>		
<b>U.S. PATENT DOCUMENTS</b>		
2,399,211 4/1946 Davis et al.		
2,587,243 2/1952 Sweetman		
3,713,636 * 1/1973 Helms et al.	266/48	
4,327,642 5/1982 Gross-Benne et al.		
4,559,890 12/1985 Regalbuto et al.	266/48	
4,693,181 9/1987 Dudley et al.		
4,815,384 3/1989 Ringel et al.		
<b>29 Claims, 7 Drawing Sheets</b>		

(57) **ABSTRACT**

An apparatus is disclosed for cutting target material which includes a housing having an inner cavity and an elongated nozzle extending from the inner cavity to communicate with the exterior of the housing. The apparatus is provided with a charge for generating a cutting flame and an activating device coupled to the charge. A method for cutting target material is also provided in which the cutting apparatus has an elongated nozzle positioned generally adjacent to a surface of a target material to be cut. The cutting apparatus may be joined with one or more housings to provide a ganged together or joined cutting apparatus. The effect of this ganged cutting apparatus is to provide an extended linear cutting action on the surface of the target material. In addition, in an opposed cutting apparatus, two housings are positioned with their nozzle channels in opposition to permit cutting target material from two directions.





# This is what you expect from thermite as incendiary cutting through steel.



- From a 9/11 memorial park.
- Possible use of thermite in incendiary form
- We seek analysis of the dark-gray residue here also.

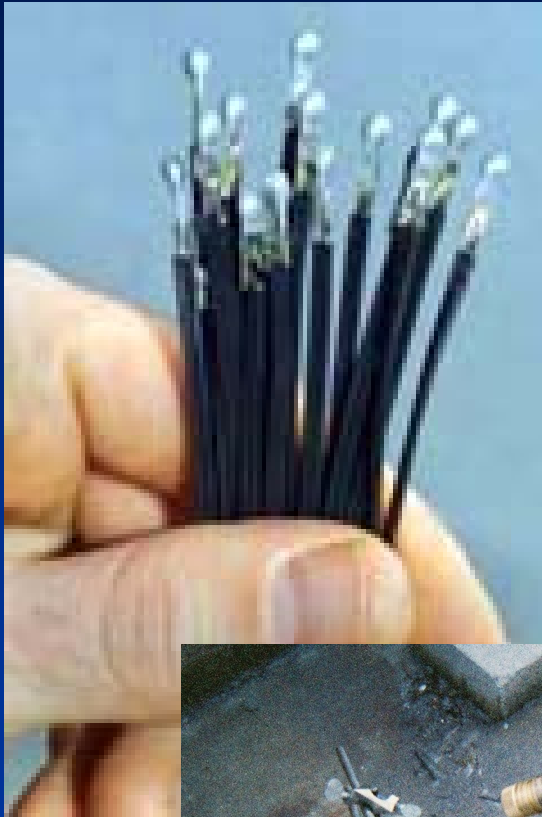


Phone interview with demolition expert, 10 Feb 2006

- **NEVER** has he seen **MOLTEN METAL** below any **demolished buildings using conventional explosives** (unlike WTC 7, and Towers) – and he's seen hundreds of demolitions. So falling buildings do NOT produce molten metal.
- **Radio-controlled explosive initiation systems are now used, yes.**
- **If just a few support columns are cut, building just stays standing.**
- **If more are cut on one side, but not majority (“cut-off” problem), then a portion of the building usually collapses, asymmetrically** – the rest remains standing.
- To bring down Southwark Towers, about **300 pounds of shaped charges (RDX) is sufficient.**
- (Then for a WTC Tower, about 1000 pounds of explosives would be sufficient. This would only require an estimated 10 men [foreigners?] to install the cutter charges, mostly in the central core/elevator shaft areas.)

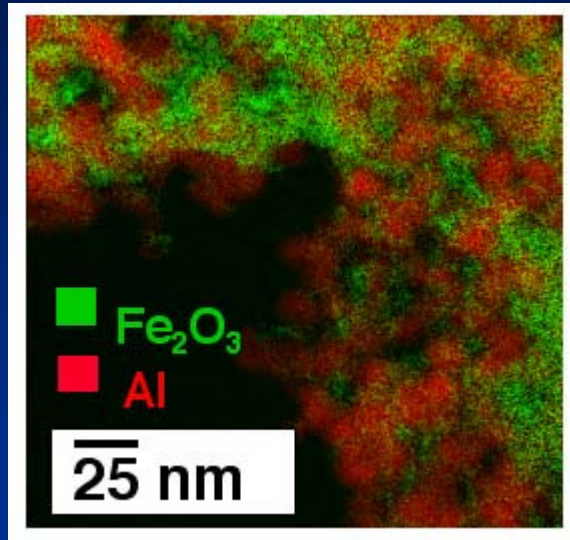
# How to set explosives and incendiaries off, at will?

## Electric matches!

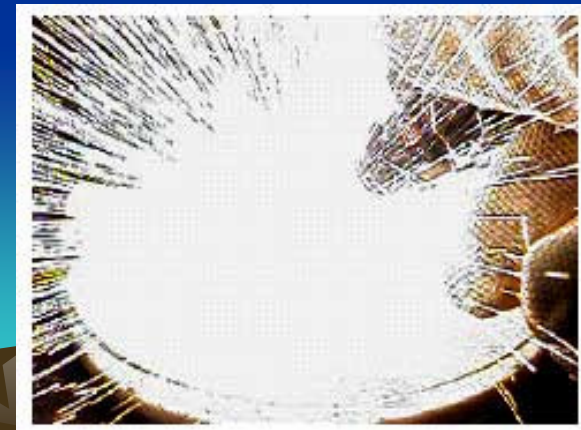
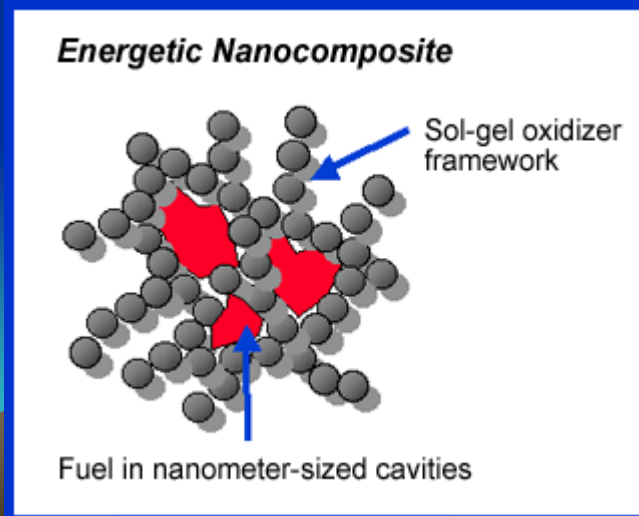


- “The Super-Thermite electric matches... are safer to use because they resist friction, impact, heat... thereby minimizing accidental ignition.
- **“Applications include triggering explosives for demolition”** [http://awards.lanl.gov/PDFfiles/Super-Thermite\\_Electric\\_Matches\\_2003.pdf](http://awards.lanl.gov/PDFfiles/Super-Thermite_Electric_Matches_2003.pdf)
- Thermite did not ignite when heated to red hot with a propane torch!  
(No accidental ignition; Jones experiment 2006)

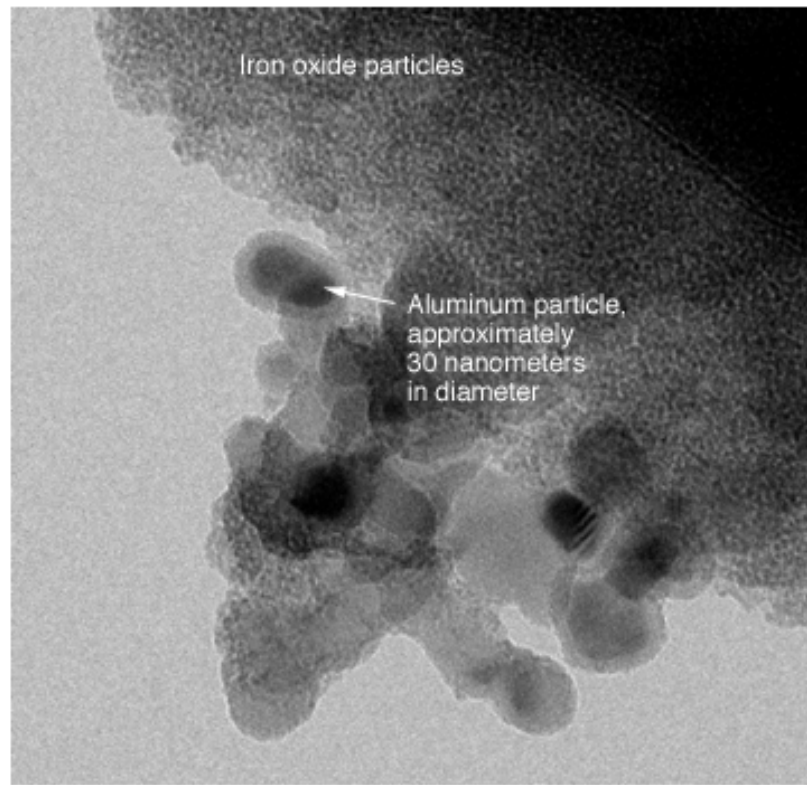
Thermite is an incendiary (slow); ultra-fine powder form is an explosive (very fast!) Called **Superthermite**



- <http://www-cms.llnl.gov/s-t/sol-gel.html>
- Left: transmission electron micrograph of a sol-gel incorporating Fe<sub>2</sub>O<sub>3</sub>/Al (thermite) nanocomposites illustrates the extremely fine mixing of **ultrafine aluminum and iron oxide**.
- Below: photo of sol-gel nano-composite **exploding**.



Gel-explosives: **Tiny aluminum particles in iron oxide, in a sol-gel:**  
**“High energy density and extremely powerful”** and **“can be cast to shape”** <http://www.llnl.gov/str/RSimpson.html> (Livermore Nat'l Lab, 2000)



Transmission electron micrograph of a thermite nanocomposite energetic material. The material is made up of an extremely fine iron oxide xerogel (approximately 2-nanometer particles) that has approximately 30-nanometer-diameter aluminum metal spheres (the larger globules) embedded in it.

- **“In addition to providing materials that have **high energy density** and are **extremely powerful**, sol-gel methodologies offer more safe and stable processing. For instance, the materials can be **cast to shape**”**
- **Also:**  
<http://en.wikipedia.org/wiki/Aerogel>

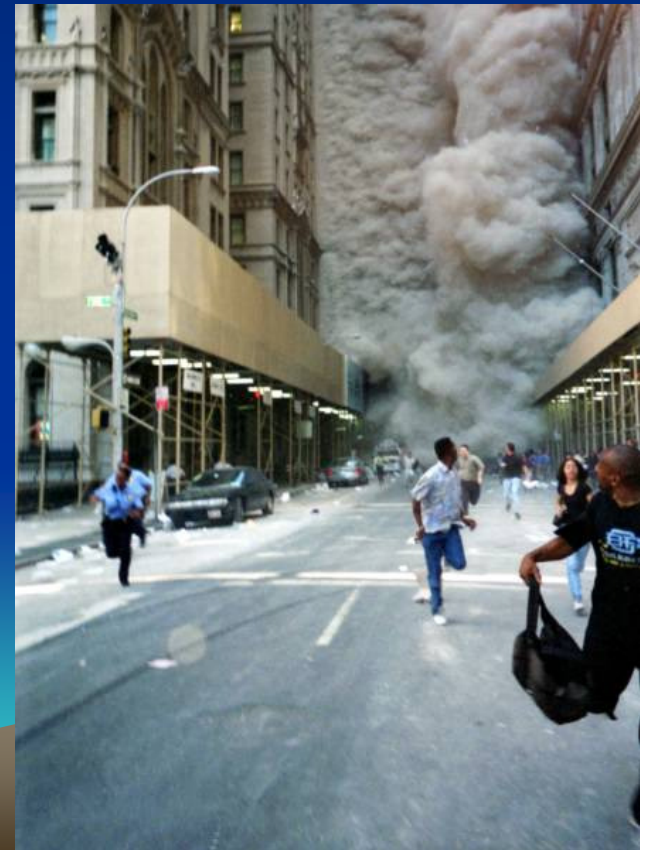


But sol-gels to hold the thermite might leave tell-tale residue, 1,3-diphenylpropane (1,3-DPP)...

<http://www.rsc.org/publishing/journals/CC/article.asp?doi=b310405b>: "Pore size effects in the pyrolysis of 1,3-diphenylpropane confined in mesoporous silicas"

(Research by chemist Kevin Ryan)

- **Analysis of the WTC dust showed:**



- “One molecule, described by the EPA's Erik Swartz, was present at levels "that dwarfed all others":
- “*1,3-diphenylpropane*. "We've never observe d it in any sampling we've ever done," Swartz said." "He said it was most likely produced by the plastic of tens of thousands of burning computers."
- The last hypothesis can be tested by burning computers to see whether *1,3-diphenylpropane* (1,3 DPP) is produced in quantities that “dwarf” other products. Also, there have been computers burned in buildings before – so why didn't they see 1,3 DPP in “any sampling we've ever done”? Curious... further investigation needed.
- <http://www.newsday.com/news/health/ny-hsair0911,0,471193.story?coll=ny-homepage-right-area>
- [http://oaspub.epa.gov/eims/xmlreport.display?deid=62021&z\\_chk=65088](http://oaspub.epa.gov/eims/xmlreport.display?deid=62021&z_chk=65088)
- Large amounts of 1,3 diphenylpropane strongly suggest that high-tech sol-gel thermite arson used on the WTC buldings.
- We are further researching these matters...



# Current focus of investigation: Arson using thermite, plus explosives. Can one prove arson?

- “In recent years the use of thermite reactions as incendiary devices has gained popularity with arsonists because they are easily ignited... burn quickly and can generate a very intense heat in excess of 4000 F. These substances are a mixture of copper oxide [and other metal oxide] powders and other chemicals which can be home made or purchased commercially...”

<http://www.materials-engr.com/ns96.html>



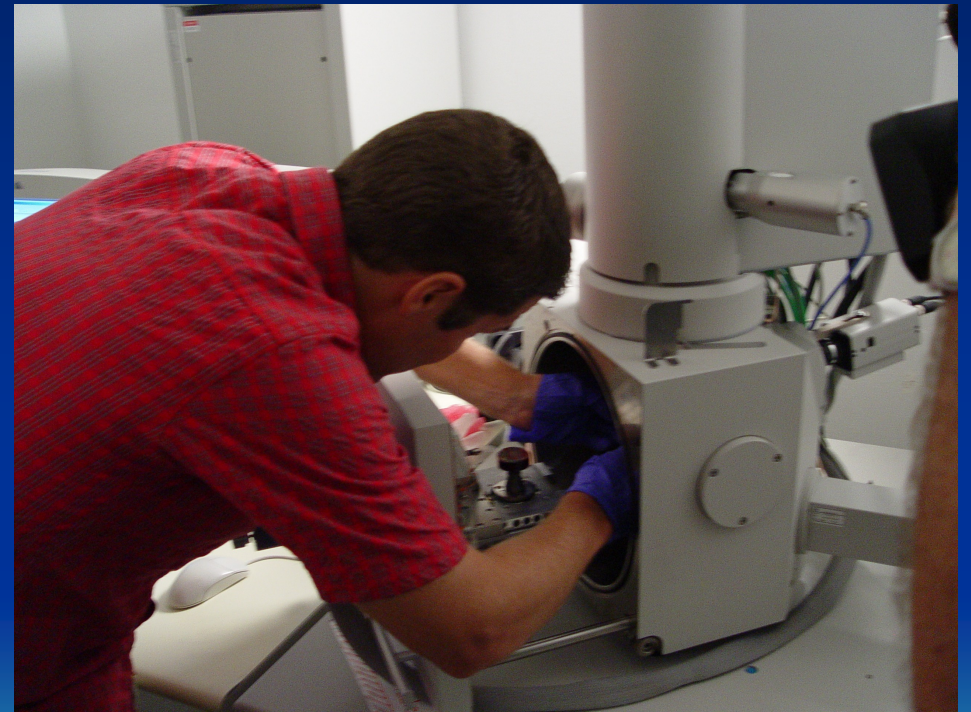
- “When thermite reaction compounds are used to ignite a fire, they produce a characteristic burn pattern [recall white ash, white-yellow how liquid metal, intense white reaction zone -- WTC 2!]
- and leave behind evidence. These compounds are rather unique in their chemical composition, containing common elements such as copper, iron, calcium, silicon and aluminum, but also contain more unusual elements, such as vanadium, titanium, tin, fluorine and manganese. While some of these elements are consumed in the fire, many are also left behind in the residue.”
- <http://www.materials-engr.com/ns96.html>





- We (3 physicists and a geologist) have conducted Energy Dispersive Spectroscopy (EDS), also X-ray Fluorescence (XRF) and Electron Microprobe analyses on residue samples from the scene.
- We identify predominately **iron**, with very little chromium, along with uncommon chemical elements in abundance such as **fluorine and manganese**. **Aluminum and sulfur** are present (expected from thermate reactions).
- 1,3 Diphenylpropane was observed in dust, and interesting bit of possibly corroborative evidence.
- **The results, coupled with visual evidence at the scene such as the flowing yellow-hot liquid metal still red after falling about 500 feet (150 m, discussed earlier), provide compelling evidence that thermite reaction compounds (aluminothermics) were used, meaning thermite was deliberately placed in both WTC Towers and WTC 7.**

# Photos inside one of the labs where samples are analyzed...



- It is important scientifically to have independent analyses performed, to **verify the presence of thermite-signature chemical elements.**
- At least two independent laboratories will be needed.



# Scientific studies often motivate other investigations...

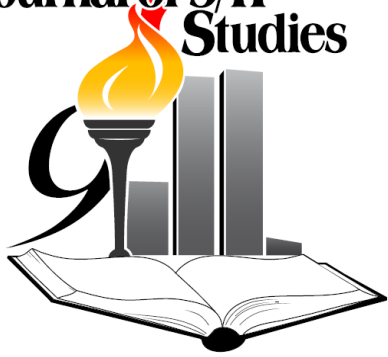
- Example, blue dress...
- The data as a whole are sufficiently compelling NOW to motivate an immediate investigation of parties, besides the 19 hijackers/Al Qaeda, who might have had a role in **9/11 arson and murders**.
- Based on compelling data and analyses, I along with others call for such an investigation now!
- I am not saying WHO did it... For example, it could be foreign agents who planted the incendiaries and explosives... But we need to find out!





# Who should be investigated?

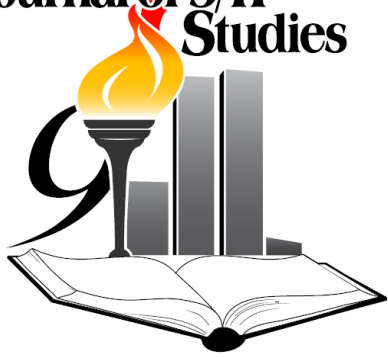
- “It would be a dangerous delusion were a confidence in the men of our choice [i.e., elected officials] to silence our fears for the safety of our rights. Confidence is everywhere the parent of despotism... Our Constitution has accordingly fixed the limits to which, and no further, our confidence may go...”
- “In questions of power, then, let no more be heard of confidence in man, but bind him down from mischief by the chains of the Constitution.”
- Writings of Thomas Jefferson, *Library of America*, pp. 454-455.



# “Intersecting Facts and Theories on 9/11”

Joseph P. Firmage, vol 2: 20- 48.

- “It is clear from this survey that a large number of vital facts about 9/11 do not conform to the official conspiracy theory, and do conform to complicity or causation theories.
- “If this intersection of facts and theories stands up, then the core of the neoconservative movement is behind one of the greatest crimes in history.
- **“Some have suggested that confronting the truth of 9/11 will bring down not just an administration, but the republic. On the contrary, I believe that the republic will be radically strengthened: its citizens will be smarter, its laws will be respected, its transparency will be reestablished, its policies will be restructured, its relations will be restored and its honor will be reclaimed.”**
- Read the entire paper here:  
<http://www.journalof911studies.com/>



## “9/11 – Evidence Suggests Complicity: Inferences from Actions” Frank Legge (Ph D)

- “If the concealed evidence showed that only al-Qaeda was involved it would be inevitable that the US administration would have released it, as promised, in order to prove their case, but this has not occurred.
- “If it was not al-Qaeda [alone], who was it?
- “In consideration of all the evidence stated above there appears to be no alternative to the conclusion that *some part* of the US administration was involved in the events of 9/11.
- “A plan existed. The Project for the New American Century (PNAC)  
“The process of transformation,” the plan said, “is likely to be a long one, absent some catastrophic and catalyzing event—like a new Pearl Harbor.” “

- “If it turns out that identification and prosecution of the perpetrators cannot be achieved there remains a substantial benefit if there is wide public distribution of the truth about 9/11. This knowledge will enhance the prospect for a successful prosecution if a similar event occurs in the future and will render any repetition less effective in manipulating public opinion.
- **“There is therefore hope that spreading this information will reduce the risk that a repetition will be attempted.**
- “A fully independent investigation is clearly urgently required. A group urging further investigation has recently emerged. This group, Scholars for 9/11 Truth [and Justice], has come into prominence because of the scientific basis of its enquiries and the academic stature of its founding members.”

- Dr. Legge’s full paper is available here:

<http://www.journalof911studies.com/>





# Quotes from a BBC program

- “Ledeen is also believed to have the ear of the White House's current Chief of Staff Karl Rove, and has regular conversations with him.
- “His view on the war on terror is clear, he said: “Iraq is just one battle in a larger war, bringing down the regime in Iran is the central act...”
- <http://news.bbc.co.uk/1/hi/programmes/panorama/3031803.stm>



- Ledeen, a leading neo-conservative (neo-con), said in a recent book,
- ***“In order to achieve the most noble achievements, the leader may have to ‘enter into evil.’ This is the chilling insight that has made Machiavelli so feared, admired and challenging.”***
- 
- (M. Ledeen, AEI, *Machiavelli on Modern Leadership*.)
- Are we seeing a pattern here?



BBC report: “Richard Perle, of the think tank the American Enterprise Institute, has been dubbed “the prince of darkness” by his critics.”

- “Richard Perle: He is chairman of the Project for a New American Century, which advocates increased defence spending and utilising American might to shape the world.
  - He also publishes a right wing newspaper called the Weekly Standard, for which the White House has a subscription.
  - He told Panorama: “... for justice and liberty to prevail in the world, force sometimes has to be used.”
  - “Its very nice to sit around and say we're in Europe, and we believe in the rule of law, we believe in the United Nations but Saddam Hussein is there, and he's a dictator and he has weapons of mass destruction.
  - “And are you going to do something about it or not...”
  - <http://news.bbc.co.uk/1/hi/programmes/panorama/3033913.stm>
- 
- Does anyone detect a pattern here?



# Q: Does Dr. Jones believe in “Conspiracy Theory”?

- **“We saw on 9- 11 nineteen men hijack aircraft with airline tickets and box cutters and killed more than 3,000 Americans in a couple of hours.”**

Dick Cheney , March 2003

- I renounce the conspiracy theory above!
- Compare: Polycarp circa 95 AD (one of my heroes) denounced the “atheists” (Roman-empire, not the Christians)



Chronicle of Higher Education article (not peer-reviewed) June 23, 2006

The repeated and glib use of evocative terms such as “conspiracy theory” and “fringe” serves to discredit the opponent they are used against (emotionally, not rationally) and serves to discourage critical thinking.

- By JOHN GRAVOIS

“In recent months, interest in September 11-conspiracy theories has surged. Since January, traffic to the major conspiracy Web sites has increased steadily. The number of blogs that mention “9/11” and “conspiracy” each day has climbed from a handful to over a hundred.

Why now?

Oddly enough, the answer lies with a soft-spoken physicist from Brigham Young University named Steven E. Jones, a devout Mormon and, until recently, a faithful supporter of George W. Bush. [What basis? Illegal immigration, soaring national debt, now terrible wars – I have lots of reasons to question W and long questioned him and his policies.]

Last November Mr. Jones posted a paper online advancing the hypothesis that the airplanes Americans saw crashing into the twin towers were not sufficient to cause their collapse, and that the towers had to have been brought down in a controlled demolition. Now he is the best hope of a movement that seeks to convince the rest of America that elements of the government are guilty of mass murder on their own soil.

His paper — written by an actual professor who works at an actual research university — has made him a celebrity in the conspiracy universe. He is now co-chairman of a group called the Scholars for 9/11 Truth, which includes about 50 professors — more in the humanities than in the sciences — from institutions like Clemson University, the University of Minnesota, and the University of Wisconsin.

But even as Mr. Jones's title and academic credentials give hope to the conspiracy theorists, his role in the movement may undermine those same credentials. What happens when science tries to function in a fringe crusade?”

# Is another 9/11 possible? Could it happen again?

- (See book by Webster Tarpley, “9/11 Synthetic Terror”)

**“Talk of a U.S. strike on Iran is eerily reminiscent of the run-up to the Iraq war.”**

By Zbigniew Brzezinski, national security advisor to President Carter from 1977 to 1981.  
LA Times, OpEd, April 23, 2006

**“If there is another terrorist attack in the United States, you can bet your bottom dollar that there also will be immediate charges that Iran was responsible in order to generate public hysteria in favor of military action.”**

**LA Times OpEd, 4/13/2006**



# Q: Surely no faction in the US government would lie to us... OR DID THEY?

- WASHINGTON – “At the White House's direction, the Environmental Protection Agency gave New Yorkers misleading assurances that there was no health risk from the debris-laden air after the World Trade Center collapse, according to an internal inquiry.
- “The White House "convinced EPA to add reassuring statements and delete cautionary ones" by having the National Security Council control EPA communications after the Sept. 11 terror attacks, according to a report issued late Thursday by EPA Inspector General Nikki Tinsley.
- 
- In all, the EPA issued five news releases within 10 days of the attacks and four more by the end of 2001 reassuring the public about air quality. [Soon,] respiratory ailments and other problems began to surface in hundreds...
- [http://seattlepi.nwsource.com/national/136350\\_epa23.html](http://seattlepi.nwsource.com/national/136350_epa23.html) By JOHN HEILPRIN  
THE ASSOCIATED PRESS, August 23, 2003



# 9/11 Dust immediately found dangerous



- **“Tests revealed the dust to be extremely alkaline with a pH of 12.1 (out of 14) and that some of it was as caustic as liquid drain cleaner. It was obvious that precautions had to be taken to protect the workers and people returning to their homes from the dust.”**

**Gregg Swayze, USGS**

- Sam Vance, an environmental scientist with the EPA, sent the results to officials at the EPA..

- [\[St. Louis Post-Dispatch, 2/10/02\]](#)



## More regarding the toxic 9-11 dust

- “James Connaughton, chairman of the environmental council, which coordinates federal environmental efforts, said **the White House directed the EPA to add and delete information based on how it should be released publicly...**”
- 
- **“It was much more important to open up Wall St. than it was to worry about our health,” said former city councilperson.. Kathryn Freed...**  
**“We’ve known it was a cover-up since the beginning,”** Jain said [president of Battery Pk Residents Coalition].

Downtown Express, “Residents Angry,” August 19, 2003.

## ***“White House Misled City on Post-9/11 Health Issues”***

**By Laurie Garrett, Newsday August 22, 2003**

- “Language in an EPA draft stating that asbestos levels in some areas were three times higher than national standards was **changed** to “slightly above the 1 percent trigger for defining asbestos material.”
- **This sentence was added to a Sept. 16 press release: “Our tests show that it is safe for New Yorkers to go back to work in New York’s financial district.”**
- A warning on the importance of safely handling Ground Zero cleanup, due to lead and **asbestos exposure**, was **changed** to say that some contaminants had been noted downtown but “the **general public should be very reassured** by initial sampling.”
- New York’s leaders responded with dismay.
- Rep. Jerry Nadler (D-Manhattan) called for a Justice Department investigation. **“That the White House instructed EPA officials to downplay the health impact of the World Trade Center contaminants due to ‘competing considerations’ at the expense of the health and lives of New York City residents is an abomination,”** he said in a press release.
- ***“I want an independent investigation to determine exactly who at the White House manipulated the information.”*** **D. Yassky**
- The White House did not respond to requests for comment.”

# 9/11 Dust: 15,000+ Sick

- “The number of people with medical problems linked to the 9/11 attacks on New York has risen to at least 15,000.
- **“On Tuesday, a coroner said the death of a policeman who developed a respiratory disease was "directly linked" to 9/11.”**
- **Problems mount from 9/11 fallout**  
**By David Shukman**  
BBC News science correspondent
- 4/12/2006



- USA Today article 6/26/2006:

# Values disclosed in 9/11 Toxic Dust incident...

- **Truth?**
- **Caring for others?**
- **Long-term effects?**
- “The men who wrote the Constitution feared most a strong Executive with control of a standing army. Our constitution is set up to protect all of us from tyranny.”
- --Rep. Heather Wilson, R-NM, Time magazine, Feb 20, 2006



# How do you feel about being lied to?

## Student comments.

- **“Losing lives [due to the toxic dust] can be thought of as a propagation of the terrorists’ act!”**
- “The public should definitely have been warned about the dust, but what would have happened if they were? This could have caused a major impediment in the rebound of the economy. **I guess it's just a question of what is more important to those in authority.**”
- **“Is it right to sacrifice some lives for the national good? ...my point of view is that honesty is the best thing for the people.”**
- “Some may think it’s OK to lie about the dust, in order to get Wall Street opened up – **unless they’re the ones who get hurt!**”
- “I have been thinking a lot about [this]. **Our political leaders basically have our lives in their hands... I have been paying more attention to the news and I think that I will actually take the time to vote next time.**”





**Motive?** “From the very first instance, it was about Iraq.”

“It was all about finding a way to do it...” Video clip from “60 Minutes”, “Paul O’Neill Speaks Out”

<http://www.cbsnews.com/stories/2004/01/09/60minutes/main592330.shtml>

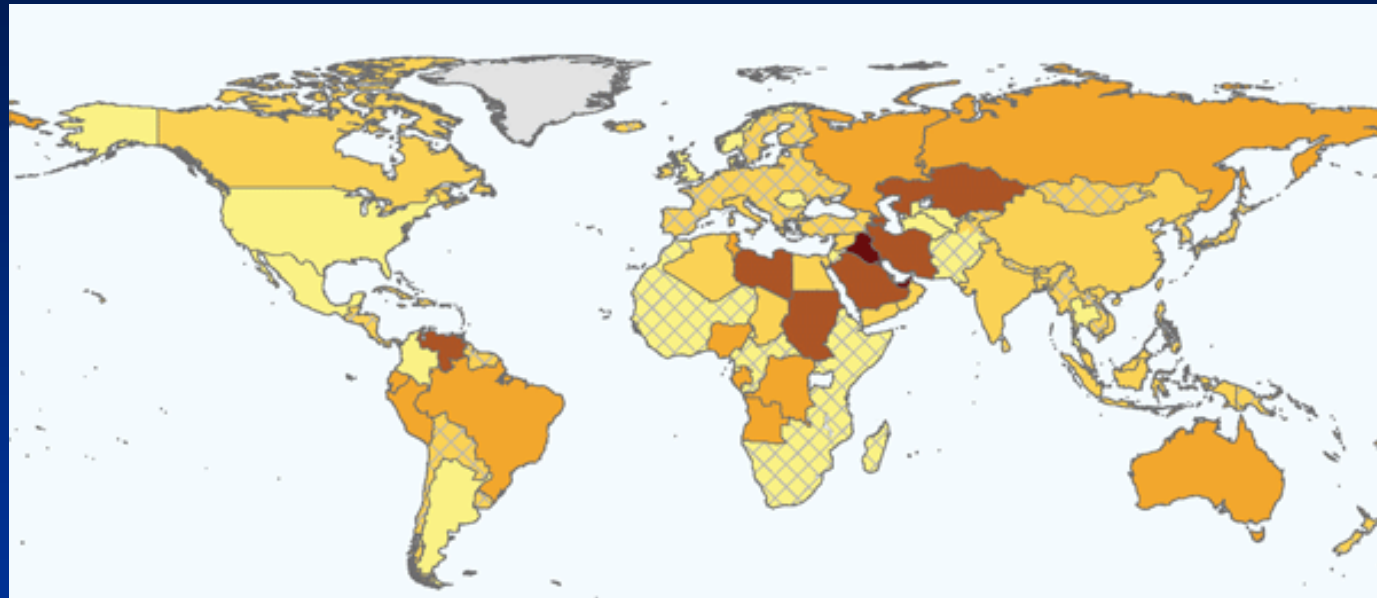
QuickTime™ and a  
H.264 decompressor  
are needed to see this picture.



# The United States Constitution provides for DEFENSE, not wars of aggression.

- “The Congress shall have Power to ... provide for the **common Defense**... of the United States”
- “The United States shall guarantee to every State in this Union a Republican Form of Government, and shall **protect** each of them **against Invasion**”
- “To provide for calling forth the Militia to execute the Laws of the Union, suppress Insurrections and **repel** **Invasions**”
- **Core principles: Limited, balanced government, reserving powers to States and the people.**
- **Protection of unalienable rights (given by God, not the State, per Declaration of Independence)**

## Global Oil Reserves-to-Production Ratios, 2004



**Years to exhaust  
proven reserves at  
current production  
rates**



6-12

13-20

21-42



43-100

over 100

No Data



Average for remaining countries  
in the region

### Sources:

1. BP p.l.c., 2005, *Statistical Review of World Energy*. London:BP p.l.c.

Available On-line at: [Source Link](#).

- “There are memos. One of them marked secret, says, ‘Plan for post-Saddam Iraq,’” adds Suskind, who says that they discussed an occupation of Iraq in January and February of 2001. [~8 months before 9/11]
- Based on his interviews with O'Neill and several other officials at the meetings, Suskind writes that the planning envisioned peacekeeping troops, war crimes tribunals, and even divvying up Iraq's oil wealth.
- CBS News, Jan. 2004,  
<http://www.cbsnews.com/stories/2004/01/09/60minutes/main592330.shtml>
- “**“..Deficits don't matter,” Dick Cheney told Paul O'Neill during a Cabinet meeting. “We won the (2002) midterms. This is our due.”**
- Have you noticed how the US national debt is exploding? Over 8 Trillion now...



# **“PNAC Roadmap” by “neo-conservatives”**

## **Cheney, Wolfowitz, Rumsfeld, Perle, Libbey, Jeb Bush, Ledeen, etc. (not Pres. Bush)**

- **In September 2000** a strategy document came out with little fanfare – yet many of the strategists would soon have elevated positions in the Bush administration. It calls for the establishment of a “Homeland Security” agency and for dramatically increasing “defense” spending, and for a permanent US presence in the Persian Gulf:
- **“The United States has for decades sought to play a more permanent role in Gulf regional security. While the unresolved conflict with Iraq provides the immediate justification, the need for a substantial American force presence in the [Persian] Gulf transcends the issue of the regime of Saddam Hussein.”**
- **“The process of transformation, even if it brings revolutionary change, is likely to be a long one, absent some catastrophic and catalyzing event – like a new Pearl Harbor.”** P. 51
- <http://newamericancentury.org/RebuildingAmericasDefenses.pdf>



# Quotes from PNAC (Neo-con) strategy

- Stated goals of this revolutionary plan include (emphasis added):
- “RESTORE THE **PERSONNEL STRENGTH** of today’s force to roughly the levels anticipated in the “Base Force” outlined by the Bush [senior] Administration“ p. iv
- “**INCREASE DEFENSE SPENDING**’ dramatically p. iv [Iraq war: ~\$300 Billion and counting]
- “**REPOSITION U.S. FORCES** to respond to 21st century strategic realities by shifting permanently-based forces to Southeast Europe and Southeast Asia
- “The United States has for decades sought to play a **more permanent role in Gulf** regional security. While the **unresolved conflict with Iraq** provides the **immediate justification**, the **need for a substantial American force presence in the [Persian] Gulf transcends the issue of the regime of Saddam Hussein.**”
- “**Defend the American homeland** [now “Homeland Security”] and... provide a secure basis for U.S. power projection around the world.”
- “**CONTROL THE NEW “INTERNATIONAL COMMONS” OF SPACE AND “CYBERSPACE,”**
- “**EXPLOIT THE REVOLUTION IN MILITARY AFFAIRS...** [and] American global leadership and [keep] **a global security order that is uniquely friendly to American... prosperity.**” p. V.
- <http://newamericancentury.org/RebuildingAmericasDefenses.pdf>



# PNAC (Neo-conservative) plan cont'd

(See <http://newamericancentury.org/RebuildingAmericasDefenses.pdf>.)

- “The military’s job during the Cold War was to deter Soviet expansionism. Today its task is to secure and expand the ‘zones of democratic peace;’ to deter the rise of [any] power competitor.. and to preserve American preeminence through the coming **transformation of war...**” P. 2
- “America’s current geopolitical preeminence will be extended along with the peace and prosperity that it provides... **foundation on unquestioned U.S. military preeminence.**” P. 4
- “Further, the process of **transformation, even if it brings revolutionary change, is likely to be a long one, absent some catastrophic and catalyzing event – like a new Pearl Harbor.**” P. 51
- On the evening of 9/11/2001, Pres. Bush said in his diary:
- **"The Pearl Harbor of the 21st century took place today."**
- The Washington Post, 27 Jan. 2002 (Woodward and Balz) Note that Pres. Bush was not a signer on the PNAC strategy document.



The goal: To Preserve Constitutional Law in the United States of America, including the Bill of Rights.

**1775, Patrick Henry:**      **"We are apt to shut our eyes against a painful truth... Is this the part of wise men, engaged in a great and arduous struggle for liberty? Are we disposed to be of the number of those, who having eyes, see not, and having ears, hear not..?"**

- **"For my part, whatever anguish of spirit it might cost, I am willing to know the whole truth; to know.. it -- now."**
- **We are engaged in a struggle for liberty and truth, right now.**



- Can anyone **prove that al Qaeda acted ALONE?** I have not seen any such proof, have you?
- A huge question is – **Did a faction in the government know about the hijackers' pending attacks beforehand?**



# US officials forewarned of impending terror attacks by 11+ countries

- **2001, especially summer: US officials were warned of imminent major attack by terrorists, by Britain, Egypt, France, Germany, Israel, Italy, Jordan, Morocco, Afghanistan, Argentina, and Russia.** Specifically named were on the FBI's hijacker list of 19: Nawaf Alhazmi, Khalid Almihdhar, Marwan Alshehhi, and **Mohamed Atta.**
- [Die Zeit, 10/1/02](#), [Der Spiegel, 10/1/02](#), [BBC, 10/2/02](#), [Ha'aretz, 10/3/02](#)
- Russian President Vladimir Putin, in an interview
- on MSNBC (15 Sept 2001): "I ordered my intelligence to warn President Bush in the strongest terms [before 9/11] that 25 terrorists were getting ready to attack the US, including important government buildings like the Pentagon."
- Yet, as *Jane's Intelligence Digest* put it, "**It is rather strange that the US media seems to be ignoring what may well be the most explosive story since the 11 September attacks...**" [[Jane's Intelligence Digest, 3/13/02](#)]
- <http://www.cooperativeresearch.org/essay.jsp?article=essaytheytriedtowarnus>





# Rep. Curt Weldon (R-Pa) pursues US gov't **foreknowledge**: Operation *Able Danger*

- “Mr. Speaker, **I rise because information has come to my attention over the past several months that is very disturbing. I have learned that, in fact, one of our Federal agencies had, in fact, identified the major New York cell of Mohamed Atta prior to 9/11...**”

• **June 27, 2005**



Very common objection I hear: But it's such a **big lie** ("19 Muslim hijackers pulled off 9/11 with no help or foreknowledge by any in the gov't") – how could they get away with it?

- *“**In the big lie there is always a certain force of credibility**; because the broad masses of a nation are always more easily corrupted ...they more readily fall victims to the big lie than the small lie... It would never come into their heads to fabricate colossal untruths, and they would not believe that others could have the impudence to distort the truth so infamously.”*

- Adolf Hitler, *Mein Kampf*

# 9/11 threat to Pres. Bush: “Angel is next”

- “At about 10:30 AM Cheney [at the White House] reached Bush again on Air Force One, which was still on its way toward Washington. The White House received a threat saying, “Angel is next.” Since Angel was the codeword for Air Force One, it could mean that terrorists had inside information.” [Evidently due to this threat, The President’s jet changed course and flew to Louisiana instead.] Bob Woodward, *Washington Post*, January 27, 2002.
- Historian Webster Tarpley: “This represents the single most important clue as to the sponsorship of 9/11, since it was at this point that the sponsors showed their hand. They were not located in a cave in Afghanistan, but were rather located high within the US government... the thread which, if properly pulled, will unravel the entire fabric of 9/11 deceit.”
- W. Tarpley, “9/11 Synthetic Terror,” page 280 ff.
- 



- Fox News Sunday, 23 Sept 2001, Tony Snow: “Sept. 11 there was a report that there was a coded message that said, **“We’re going to strike Air Force One”** that was using specific coded language and made the threat credible. Is that true?
- Condoleezza Rice: **“That is true.... I will tell you that it was plenty of evidence from our point of view to have special measures taken at that moment to make sure the president was safe.”**
- <http://www.washingtonpost.com/wp-srv/nation/specials/attacked/transcripts/foxtext092301.html>

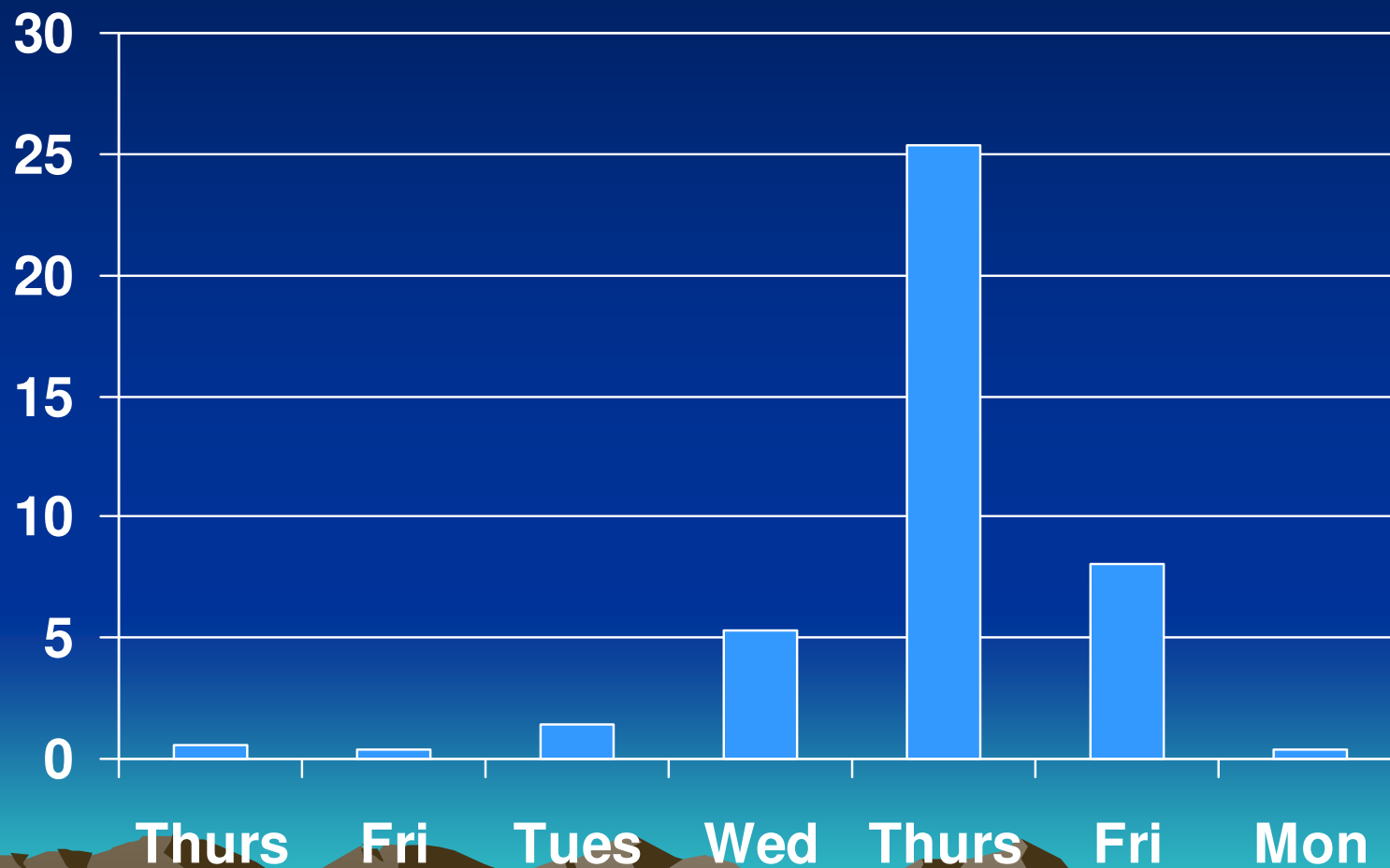


- Sept. 13, 2001, White House briefing:
- Reporter: “Can you confirm the substance of that **threat that was telephoned in...that Air Force One is next and using code words?**”
- Ari Fleisher (Press secretary): “**Yes, I can. That’s correct.**”
- At Sept. 26th briefing, asked again about this, Fleisher said “I’m not going to comment on any particular threats coming toward the White House.”
- **Amazingly, the matter soon died out, with no answers as to WHO knew the secret code words – and how, and who threatened the President...**
- **This matter needs further investigation, for such person(s) with top-secret information may still be a threat to the President and others...**
- Tarpley discusses a large body of evidence and concludes: “**The official version of 9/11 says that the attacks came out of a distant cave in Afghanistan. But it makes more sense to explore networks and agencies which have means, motive, and opportunity, as well as a track record of advocating and promoting large-scale violence.**”
- Webster Tarpley, “9/11 Synthetic Terror,” page 384 and 280 ff.





## Other data, example: Put-to-Call Ratio for United Airlines for Seven Trading Days before 9/11/2001



- BBC (18 Sept. 2001): “**American authorities are investigating unusually large numbers of shares in airlines (UAL and AA) , insurance companies [specifically those which insured the WTC, Munich Re and Swiss Re] and arms manufacturers [Raytheon, etc.] that were sold off in the days and weeks before the attacks. They believe that the sales were by people who knew about the impending disaster**” (<http://news.bbc.co.uk/1/hi/uk/1549909.stm>).
- Bloomberg News reported, “Trading in so-called put options, which rise in value when stock prices fall, **surged as much as 285 times the previous average volume** in AMR [parent company for American Airlines] and UAL during the days before Sept. 11.”  
<http://www.newsday.com/nybzbund232380730sep23.0.2864727.story>
- Don Radlauer, an expert in electronic banking and cash management, pointed out, “**No similar trading in other airlines occurred on the Chicago exchange in the days immediately preceding Black Tuesday.**”  
---The International Policy Institute for Counter-Terrorism 9/21/01  
<http://www.ict.org.il/articles/articleDet.cfm?articleid=386>
- According to Dylan Ratigan of Bloomberg News: “**This would be the most extraordinary coincidence in the history of mankind if it was a coincidence. This could very well be insider trading at the worst, most horrific, most evil use you’ve ever seen in your entire life. It’s absolutely unprecedented.**”

## The results of the investigation into “unusual pre-9/11 trading”...

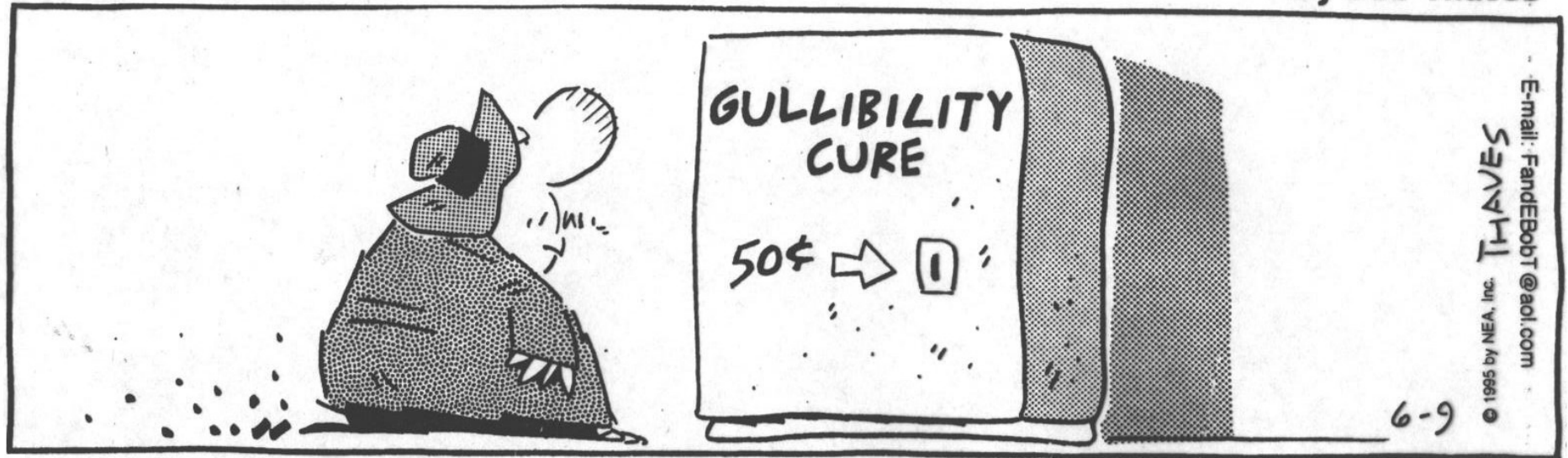
- “Not a single U.S. or foreign investigative agency has announced any arrests [still the case, May 2006] or developments in the investigation of these trades, *the most telling evidence of foreknowledge of the attacks*. “Andreas von Bulow, a former [German Defense Minister] responsible for oversight of Germany's intelligence services estimated the worldwide amount [on suspicious pre-9/11 trades] at **\$15 BILLION**.” ABC World News report on Sept. 20, 2001
- “Highly publicized allegations of insider trading in advance of 9/11 generally rest on reports of unusual pre-9/11 trading activity in companies whose stock plummeted after the attacks. Some unusual trading did in fact occur, but each such trade proved to have an innocuous explanation.... For example... *a single U.S.-based institutional investor with no conceivable ties to al Qaeda purchased 95 percent of the UAL puts on September 6... The SEC [Security and Exchange Commission] and the FBI... have found that the apparently suspicious consistently proved innocuous.*”  
*The 9/11 Commission Report* (p. 499, footnote)

So if the investors had “no conceivable ties to al Qaeda” then the highly “unusual pre-9/11 trading” must be “innocuous”?

And you believe that statement  
from the 9/11 Commission?

FRANK AND ERNEST

By Bob Thaves



# FEMA people arrived in Manhattan on Sept. 10<sup>th</sup>!

- FEMA exercise Tripod II brought FEMA personnel to Manhattan on Sept 10:
- “... the reason Pier 92 was selected as a command center was because on the next day, on September 12, Pier 92 was going to have a drill, it had hundreds of people here, from FEMA, from the Federal Government, from the State, from the State Emergency Management Office, and they were getting ready for a drill for biochemical attack. So that was gonna be the place they were going to have the drill. The equipment was already there,”  
-- former NYC **mayor R. Giuliani** to 9-11 Commission; this testimony was not included in the 9-11 Commission report. Corroborated by one involved:  
“We're currently one of the first teams that was deployed to support the City of New York in this disaster. **We arrived on late Monday night (9/10/2001) and went right into action on Tuesday morning.**”  
(9/11/2001) Tom Kenney to Dan Rather, TV interview, Sept. 13, 2001

**So, did some government officials know in advance of the attacks on Manhattan the very next day? What are the chances that a FEMA training exercise involving hundreds would be at the right place and at the exact right time – by coincidence?**



# Why the lack of air defenses on 9/11?

- A retired Air Force Colonel who flew over 100 combat missions and was the director of the Star Wars defense program under both Republican and Democratic administrations (and a member of Scholars for 9/11 Truth) recently said:

**"If our government had merely done nothing, and allowed normal procedures to happen on that morning of 9/11, the twin towers would still be standing, and thousands of dead Americans would still be alive."**

- Col. Robert Bowman



# 9-11 events are part of a bigger “iceberg” threatening our “Ship of State.”

Global Warming,  
Energy Costs

12 Million Non-legal  
Aliens

Costly war in Iraq. Is Iran next?

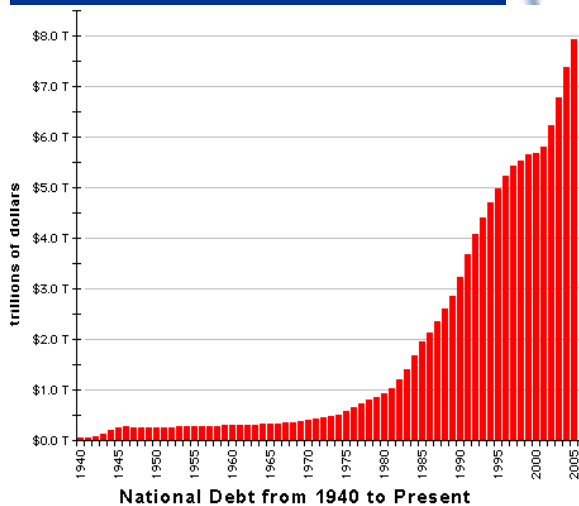
9/11. Liquid yellow– hot metal pours from Tower.  
WTC 7, never hit by jet, collapses completely.

Peak oil, PNAC plans

Exploding National and Soc Sec  
and household DEBTS

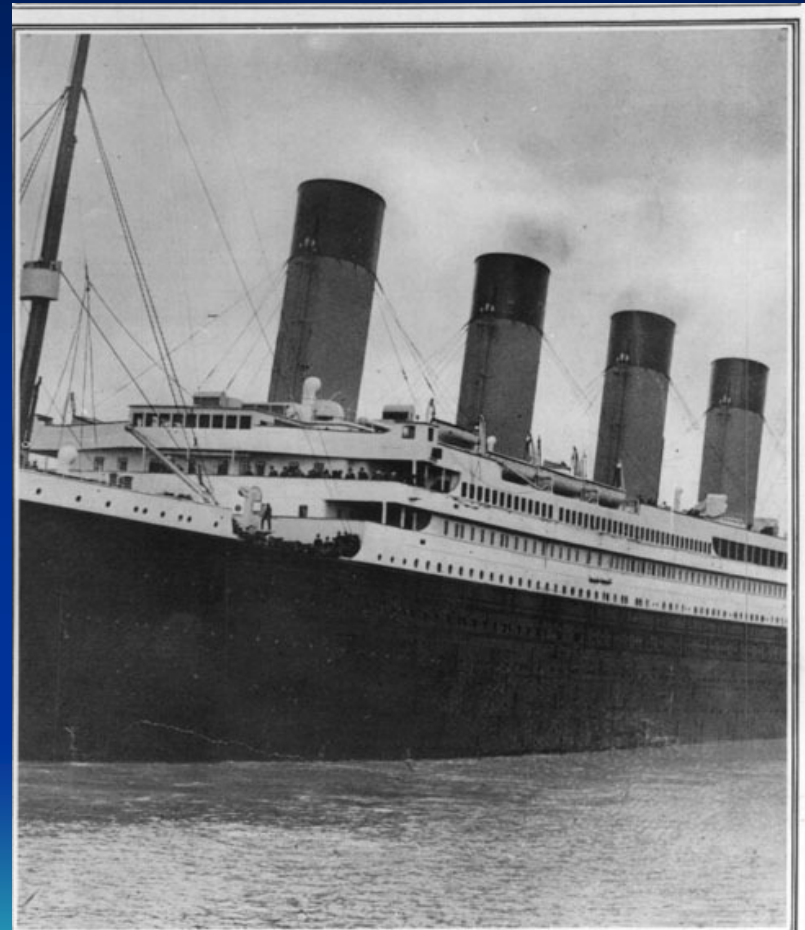
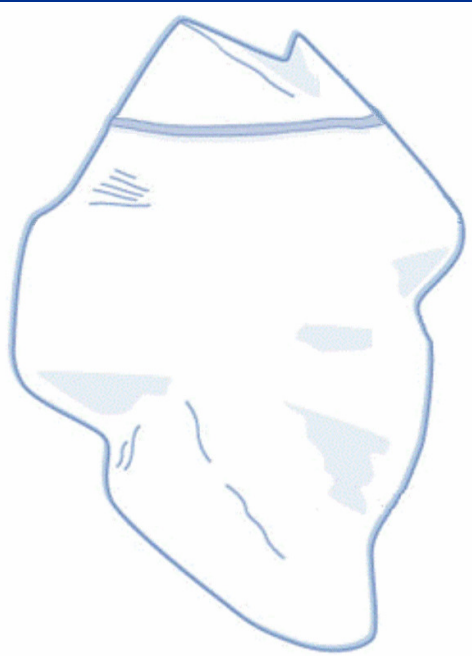
Earthquake, hurricane, flood  
→Fragile Infrastructure (Grid)

Iran-Venezuela  
oil bourse



Source: U.S. National Debt Clock  
[http://www.brillig.com/debt\\_clock/](http://www.brillig.com/debt_clock/)

“Nothing can sink this ship...”



- USS Economy and Prestige

# The huge Iceberg is in sight...

- Two choices --
- 1. Return to values such as the Constitution, Truth, Caring for others (over corporate profits and political parties)
- Or 2. Face imminent societal disruption or changes



# Rally 'round the Constitution!

- **Common DEFENSE**
- **Rule of Const. & Law**
- **Freedom from unlawful searches**
- **No unusual punishments**
- **Dollar backed by gold, silver**
- **Three branches, checks and balances**
- Question wars of aggression/pre-emptive wars (will Iran be next?)
- No one breaks Law with impunity
- Oppose warrantless wiretapping (note: warrants 72 h AFTER OK)
- Oppose torture of ANYONE.
- **End huge budget deficits and enormous national debt!**
- **Contact elected legislators (Congress declares war, oversight investigations)**
- **REDRESS OF GRIEVANCES**



# Hope for the best, Prepare for the worst

- “It wasn’t raining when Noah built the Ark”
- What if electricity was cut off?  
(E.g., Katrina and Black-out in Northeast)
- Values (Truth, Caring for others, Preparations...)
- **Water (7 gallons/person), food (500 pounds grain and beans/person), fitness, solar cookers...**
- Resolve and Resourcefulness



# Are there any precedents? Many!

## 1. 1898 Spanish-American War

- 1898, US battleship *Maine* was sunk near Cuba, blamed on Spain (later shown to be due to a coal fire)
  - William Randolph Hearst to his reporter:
  - "You furnish the pictures, I'll furnish the war."
  - "Hearst was true to his word. For weeks after the *Maine* disaster, the *Journal* devoted more than eight pages a day to the story. Not to be outdone, other papers followed Hearst's lead. Hundreds of editorials demanded that the *Maine* and American honor be avenged...
  - "Soon a rallying cry could be heard everywhere -- in the papers, on the streets, and in the halls of Congress: "Remember the *Maine*! To hell with Spain."
- <http://www.smplanet.com/imperialism/remember.html>
- **NOTE:** The US battleship was NOT sunk by Spain! (Found out after the war ended.)

# The Mukden incident

- “In 1931, Japan, which had been exploiting Manchuria for resources, decided to take over the whole province. To have a pretext, the Japanese army blew up the tracks of its own railway near the Chinese military base in Mukden, then blamed the sabotage on Chinese soldiers.”
- (David Ray Griffin essay)



# The Reichstag Fire

- “In the view of the notable historian William Shirer and many others, it has been established "beyond a reasonable doubt" that on Feb. 27, 1933, a team of Hitler's commandos fanned out through the Reichstag building (the German parliament), using **incendiary** fluids to quickly touch off a **massive blaze**.
- “Before the fire had died down, **Hitler proclaimed that the outrage must have been the responsibility of the Communists.**”
- <http://www.911-strike.com/reichstag.htm>

# The Himmler operation

- “Hitler's 'propagandist reason' for starting the war had already been arranged by Himmler and Heydrich at the Führer's request. The plan was of such importance that it was code named Operation Himmler and involved having the SS stage fake attacks by the Polish Army against German troops along the German-Polish border... [German prison] inmates dressed in Polish Army uniforms would be killed by lethal injections then riddled with bullets and left as evidence of the [staged] attacks, to be viewed later by members of the press.
- For several months now, Nazi journalists had also been trying to prepare the German people for the inevitable war in Europe. They had been personally instructed by Hitler to build enthusiasm for war and to counter civilian pessimism.”
- <http://www.historyplace.com/worldwar2/triumph/tr-last.htm>





# Staged Himmler Operation led to WWII

- And so, Hitler incited his people against the “terrorist” attacks by Polish soldiers – but these were staged attacks and the dead soldiers were actually prison inmates dressed up as Polish soldiers. Operation Himmler was a classic “false flag” operation, in which a staged attack is blamed on another group or country.
- The “Big Lie” was that Poland had attacked Germany. Hitler had his pretext for war against Poland – a pretext he had created by “terrorist attacks” which were performed by the German Secret Service and then blamed on Poland. And thus World War II began.



# Do we detect a pattern here? Can we stop this madness?

- "Remember the *Maine*! To hell with Spain."
- "Remember the Reichstag fire! To hell with the commies"
- "Remember the Mukden! To hell with China!"
- "Remember the Polish attacks! To hell with Poland!"
- "Remember the Gulf of Tonkin! To hell with Vietnam"
- "Remember the [false-flag operation]! To hell with [the country blamed]."
- "Remember 9-11! To hell with Afghanistan and Iraq."
- "Remember [ coming ]! To hell with Iran!"

DLER

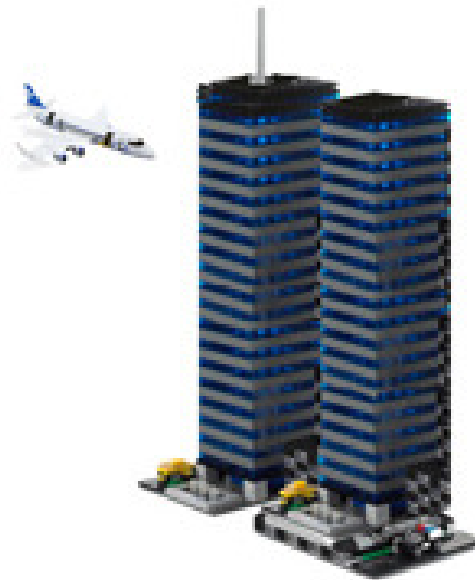
YOUNG  
BUILDERS

STORIES &  
THEMES

ACTION &  
COMPETITION

BUILDING

## World Trade Center



### **FALSE FLAG OPERATION PLAYSET**

\*thermite  
explosives  
not included

 Larger Image(s)

 360° Spin


**Item#:** 5526

**Ages:** 8+

**Pieces:** 2747

**Price:** USD 129.99

 **Add to Cart**

 **Add to Wish List**

- **My concern is that some staged or permitted “catalyzing event” will be used as pretext for US military to attack Iran and perhaps Syria.**
- The current conflict between Israel and Lebanon may be used somehow – one can envision innocent Americans there or elsewhere as pawns in a “catalyzing event”.
- We need to be watchful, vigilant! Prevent this if we can, for such a terrible war may indeed be World War III given Iran’s alliances with China and Russia, etc.



- There have been many FALSE FLAG events in history, blamed on some country or group and used to justify war.
- According to historians, Never before in history has the truth about such events been brought out before that war had ended.
- This is our chance to make history and bless our children and grandchildren.
- I predict: We will get the truth out this time -- during the Afghanistan-Iraq wars.
- (Not that we wish to prolong those terrible wars, but that we want to quickly get at the truth!)





# **This time, before the war is over, we WILL get the truth out!**

- (American Scholars Symposium talk ended here; slides have been added.)
- **“If tyranny should prevail in this great country, we may expect liberty will expire throughout the world. Therefore more human.. happiness may depend on your exertions than ever yet depended upon any...”**
- *New England Chronicle*, 1775, signed “A Freeman”

# Why NO air-defenses on 9/11? Indeed!

- **The scrambling of fighter aircraft at the first sign of trouble is a routine phenomenon. In the year period before 9/11, fighters were scrambled 67 times.** [[AP, 8/13/02](#)]
- **"A NORAD spokesman says its fighters routinely intercept aircraft. When planes are intercepted, they typically are handled with a graduated response.** The approaching fighter may rock its wingtips to attract the pilot's attention, or make a pass in front of the aircraft. Eventually, it can fire tracer rounds in the airplane's path, or, under certain circumstances, down it with a missile." [[Boston Globe, 9/15/01](#)]
- **"In October, Gen. Eberhart told Congress that 'now it takes about one minute' from the time that the FAA senses something is amiss before it notifies NORAD. And around the same time, a NORAD spokesofficer told the Associated Press that the military can now scramble fighters 'within a matter of minutes to anywhere in the United States.'"** [[Slate, 1/16/02](#)]

**The commander-in-chief of the Russian Air Force, Anatoli Kornukov said the day after 9/11: "Generally it is impossible to carry out an act of terror on the scenario which was used in the USA yesterday... As soon as something like that happens here, I am reported about that right away and in a minute we are all up."** [[Pravda, 9/12/01](#)]



# Lack of air defenses. Why?

- Flight Origin Liftoff **Takeover** Target **Crash** Collapse
- (/ off-course/transponders off)

- **AA 11 Boston 7:59 8:20 WTC1 8:46 10:28**
- **UAL175 Boston 8:14 8:42 WTC2 9:03 9:59**
- **AA 77 Dulles 8:20 8:46 Pentagon 9:38 (52 min...)**
- **UAL93 Newark 8:42 9:40 ? 10:06 (Pa. crash)**

- Prior to 9-11-01, military escorts were routinely scrambled to investigate civilian aircraft that had deviated from Planned route, 67 times in prior year.... Takes only ~5 min. near DC; had 52 min



# What “ORDERS”?

- Secretary of Transportation Norman Mineta to 9-11 Commission. He testified that he went down to the Presidential Emergency Operations Center under the White House at about 9:20 on 9/11/01. Vice President Cheney was there and in charge.
- **“During the time that the airplane was coming in to the Pentagon, there was a young man who would come in and say to the Vice President, “The plane is 50 miles out.” “The plane is 30 miles out.”**
- **And when it got down to “the plane is 10 miles out,” the young man also said to the Vice President, “Do the orders still stand?”**
- **And the Vice President turned and whipped his neck around and said, “Of course the orders still stand. Have you heard anything to the contrary?”**

<http://www.cooperativeresearch.org/timeline/2003/commissiontestimony052303.html>

- 
- If there were orders to shoot down the plane as some have suggested, then why was no action taken? There was plenty of time.
- Evidently there were orders NOT to scramble military jets to intercept the plane, since the plane was known for 50, 30, and 10 miles out and yet never intercepted. Questioning under oath of the ‘young man’ above and others would provide answers.
- The commission did not include Mineta’s testimony above in the 9/11 Commission Report -- a glaring omission (David Ray Griffin, 2005), -- and removed the video of Mineta’s testimony from the 9/11 Commission website (See [http://www.911truthmovement.org/video/hamilton\\_win.wmv](http://www.911truthmovement.org/video/hamilton_win.wmv)) .

## Concise statement of the “official conspiracy theory” by VP Cheney

- “All of that [the US military role of the 20th century] changed on Sept. 11... We saw on 9- 11 nineteen men hijack aircraft with airline tickets and box cutters and killed more than 3,000 Americans in a couple of hours.” V.P. Cheney , March 2003.
- Is this conspiracy theory credible – that these few men defeated the multi-trillion dollar US intelligence and air defense systems?
- Where is the proof that ONLY Al Qaeda knew about these attacks and did the whole thing alone and without foreknowledge by some US officials?





# So what happened after 9-11?

- The U.S. immediately attacked and occupied Afghanistan to “kill Al Qaeda.”
- FBI director Robert Mueller III:  
**“The hijackers also left no paper trail. In our investigation, we have not uncovered a single piece of paper either here in the U.S. or in the treasure trove of information that has turned up in Afghanistan and elsewhere that mentioned any aspect of the September 11th plot.”**
- Don't these facts surprise you just a little?



**The question of what hit the Pentagon on 9/11 continues to be studied by the Scholars for 9/11 Truth ([st911.org](http://st911.org)), while we demand release of held-back videotapes. Here is some of the available evidence:**

Penta-lawn was not gouged (argues against B757 at ground level as in the official ASCE report)



Tower = Approx. 44 feet  
Pentagon wall = 77 Feet  
757-200 = 155 Feet Long

77 Feet

Polished  
aluminum  
stabilizer?

Illuminated  
by sun.

Comparison

Analysis of Pentagon  
tapes released  
5/16/06. Could a  
B757 fit in the few  
released photos?  
Russell Pickering  
(Graphic B757 added  
for comparisons)

Insets with "Auto Contrast" Adjustment

2x

4x

8x

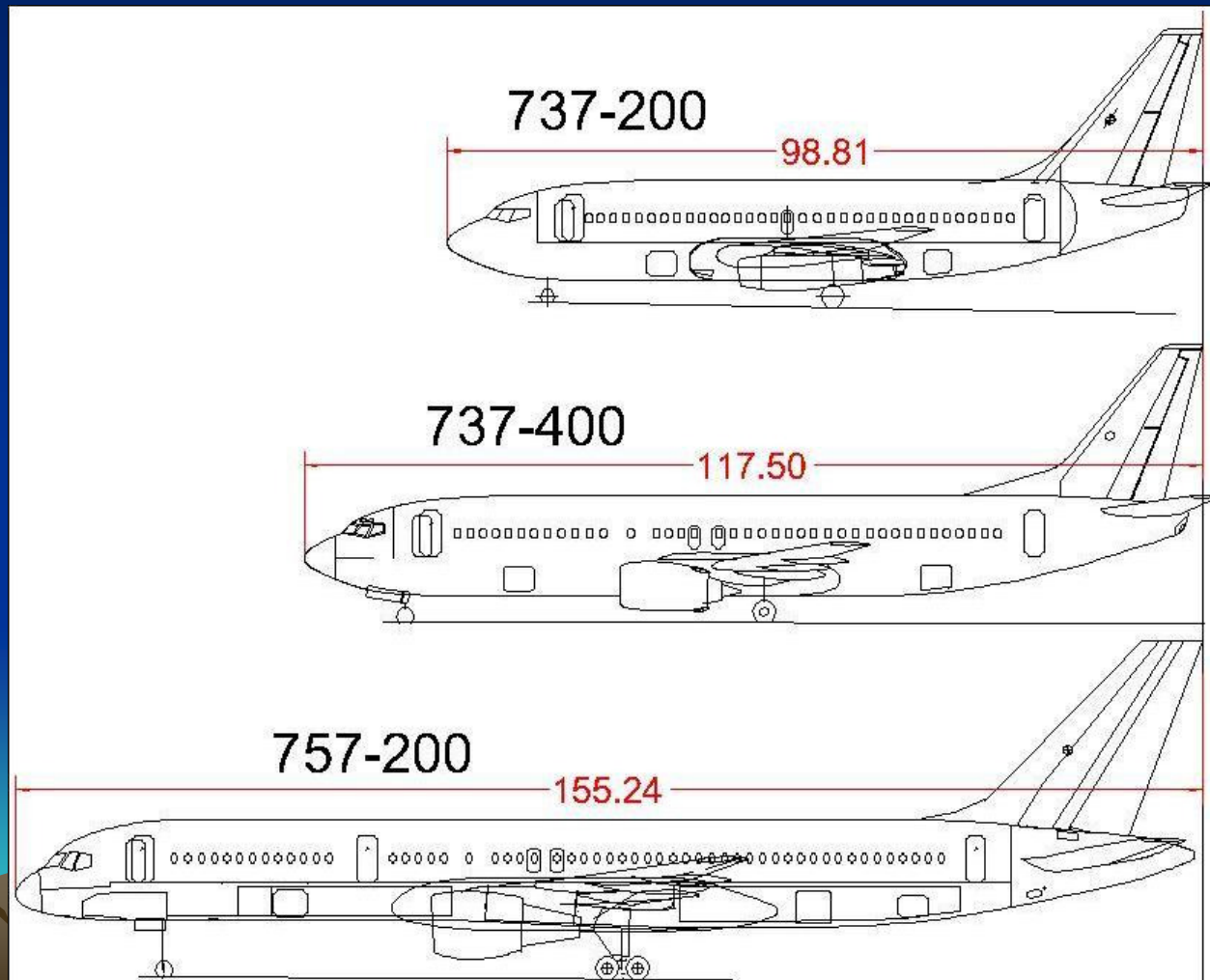
Comparison

Original

Graphic Plane



Several of the Scholars group argue that available evidence points to a smaller aircraft hitting the Pentagon, perhaps a B737 rather than a B757 (AA flight 77), since the lawn was not damaged by a low-flying aircraft and in view of the size of the hole made in the Pentagon.



**We seek release of ALL surveillance tapes which should show what actually hit the Pentagon, including Citgo gas station and Sheraton Hotel tapes, seized within minutes by FBI. (Sign our petition at [www.st911.org](http://www.st911.org))**



- We also seek answers as to why there were no air defenses to stop the incoming aircraft!**



- “Velasquez says the gas station’s security cameras are close enough to the Pentagon to have recorded the moment of impact. ‘I’ve never seen what the pictures looked like,’ he said. ‘The FBI was here within minutes and took the film.’” [National Geographic News](#)
- Now the FBI says it “...located one videotape taken from closed circuit television at the Citgo Gas Station in Arlington, Virginia. Because of its generally poor quality, the tape was taken to the FBI's Audio-Video Image Analysis Unit (AVIAU).....to determine that the videotape did not show the **impact of Flight 77** into the Pentagon on September 11, 2001.” (Maguire Documents)
- **Some believe that something other than flight 77 hit the Pentagon and we demand release of these videotapes which officials admit do exist. (You may wish to sign Petition for their release – see [st911.org](http://st911.org))**



# Were planes hitting the Towers faked? “No planes theory”

- As usual, we look for **hard evidences to test or rule out the hypothesis**, using the Scientific Method.
- Look at the data for yourself: mark the tail as it goes in (can you see the deceleration?):  
<http://img119.imageshack.us/img119/5402/175underneathccwt1.gif>

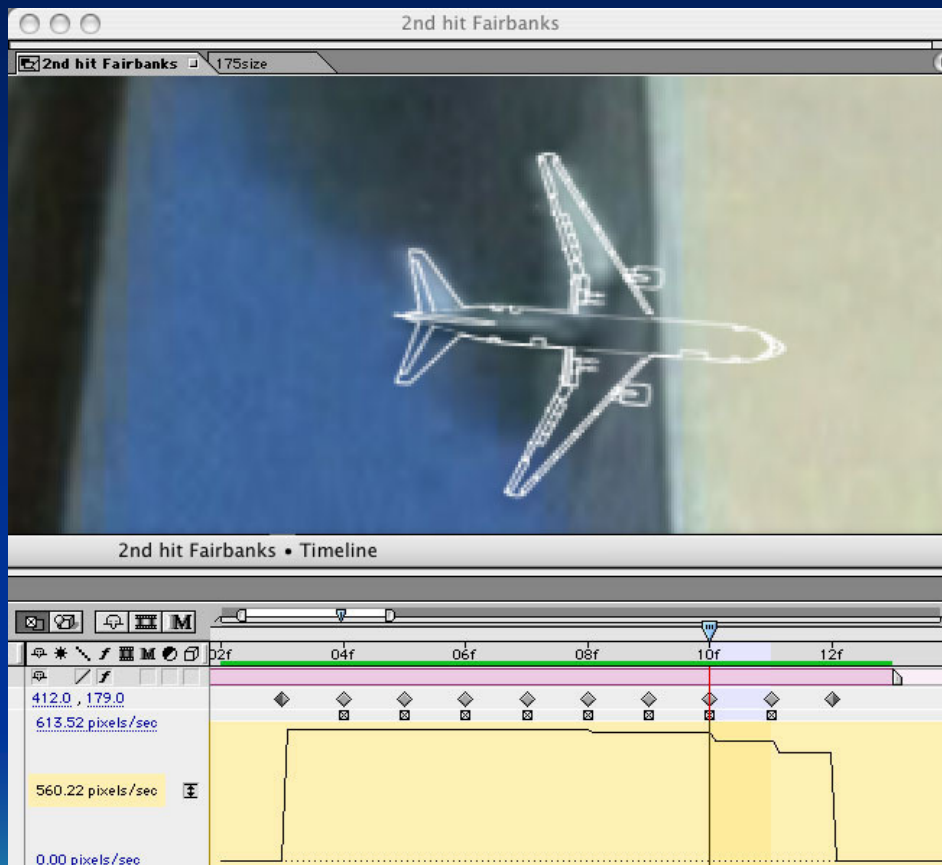


**Visual recorded data, from different angles, confirms a B767 hit WTC2. (Frames by Scott Myers, separated by 33.3 msec.)**



- Some say a jet would 'not behave like that' – but how do they know without an experiment (preferred), or a computer simulation?

A computer analysis has been done – shows deceleration of the jet, not seen by some observers – but it is there!  
(See: <http://911research.wtc7.net/essays/salter/175speed.html>)



The amount of the deceleration is being further investigated.

- “...the plane DOES decelerate when it hits the building: a small amount when the nose hits and a larger decrease when the wings and engine hit the wall.
- ...That means that the plane in the Fairbanks footage lost about 18% of its speed”
- “Stefen Grossmann cites an MIT professor's analysis which claims that the plane would have lost about 25% of its kinetic energy in the collision with the building.”
- (Consistent with the data, within allowed tolerances)

**Observed oscillation of the WTC 2 Tower provides compelling empirical evidence that it was hit by a fast-moving jetliner. Any claim to the contrary must confront these published data or the analysis thereof.**

<http://wtc.nist.gov/NISTNCSTAR1-5.pdf> p. 26

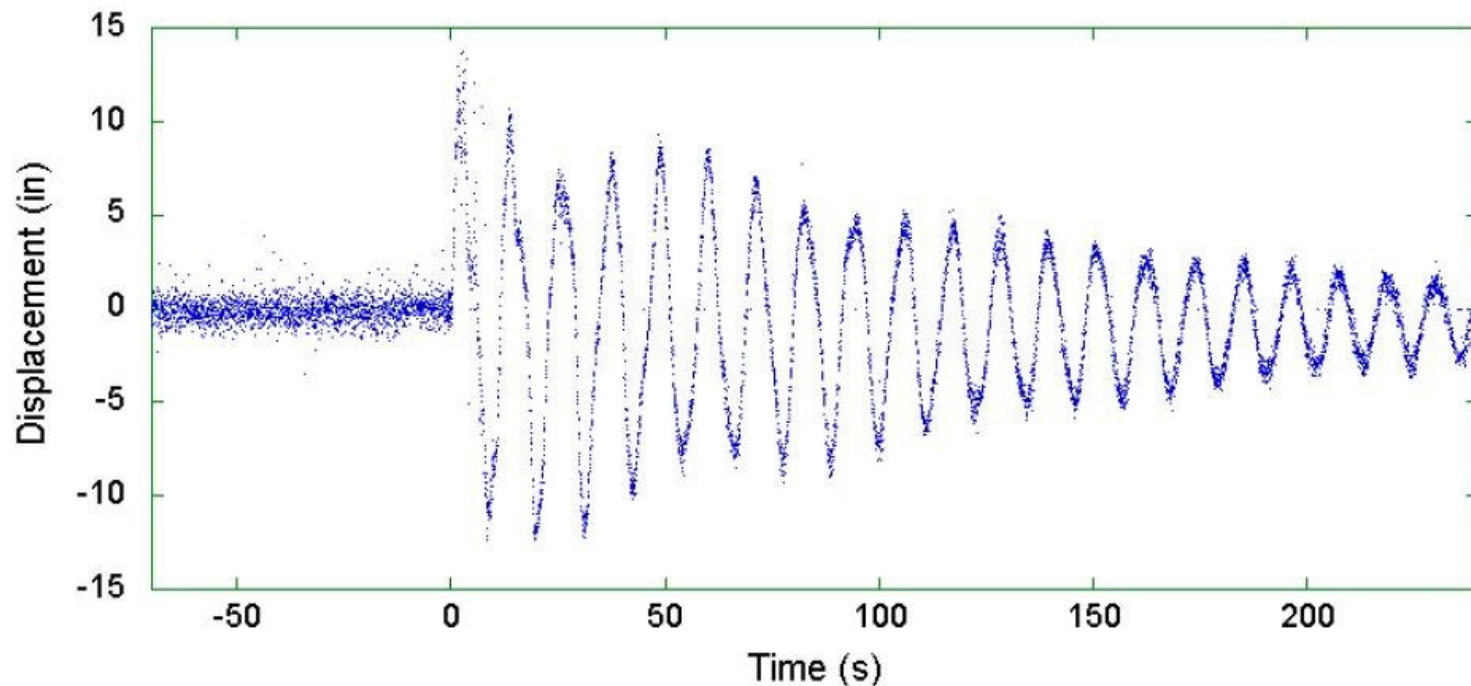


Figure 2–9. Displacement of the left-most window line on the 70<sup>th</sup> floor of WTC 2 as a function of time, determined using Moiré analysis.



Real planes leave radar traces, as found in empirical data (see below). Any claim to the contrary must refute the data or the analysis. [www.qwu.edu/~nsarchiv/NSAEBB/NSAEBB165/index.htm](http://www.qwu.edu/~nsarchiv/NSAEBB/NSAEBB165/index.htm)



**UAL 175  
heading  
towards  
South  
Tower**

**AA 11  
heading  
towards  
North  
Tower**

# Debris Expelled by Aircraft Impact

<http://wtc.nist.gov/NISTNCSTAR1-5.pdf> , p. 28

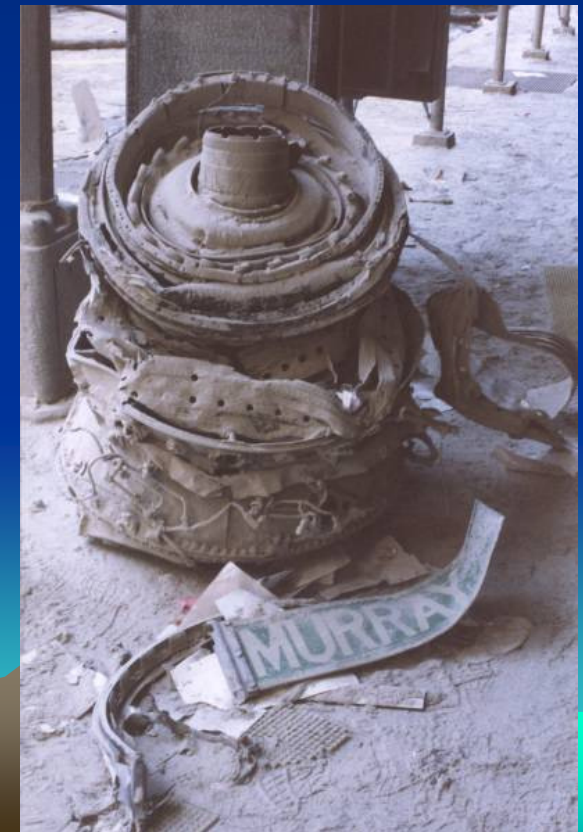
- **More hard evidence!**
- “Several pieces of the aircraft passed all the way through the building and exited at high velocities from the north side [of WTC2].
- “Most of these were relatively small, but at least two were of substantial size. One, a portion of one of the engines, exited the northeast corner of the 81<sup>st</sup> floor and landed roughly 1,500 ft from the north side of WTC 2.
- “The other, a landing gear assembly, exited in the vicinity of window 253 on the 81<sup>st</sup> floor and damaged the roof of a building at 45 Park Place, over three blocks to the north.”



# Debris near the So. Tower after plane hit



- Portions of fuselage, landing gear, engine





- More debris from the plane which hit on 9/11/2001. Notice the standing wall of Tower nearby.



# “No planes theory” continued

- In addition, flight recorders were reportedly found (see next slide). Release of the flight recorders would answer MANY questions, and we call for their release!
- (See [Scholarsfor911Truth.org](http://Scholarsfor911Truth.org) site to sign petition for release of these and other data)
- The “no planes theory” has been debated at length at the Scholarsfor911Truth Forum, yielding empirical data shown here.
- Our goal is to sort chaff from wheat – testing hypotheses against hard physical evidence – and where possible conducting real EXPERIMENTS to test the hypotheses.
- *When I hear an hypothesis, “crazy” or otherwise, I think, “What experiments could be done to test this idea? What hard evidence is there?”*





# WHERE ARE THE FLIGHT RECORDERS?

Firefighter reports: three flight recorders were found!

- Nicholas DeMasi was a firefighter at Engine Company 261 in Queens. He reported:
- "At one point I was assigned to take Federal Agents around the site to search for the black boxes from the planes. We were getting ready to go out. My ATV was parked at the top of the stairs at the Brooks Brothers entrance area. **We loaded up about a million dollars worth of equipment and strapped it into the ATV... There were a total of four black boxes. We found three.**" *Ground Zero*, p. 108.
- Yet, the government (e.g. 9-11 Commission report) and News media have said NO flight recorders were ever found – certainly nothing has been released! e.g. CBS news:
- *"The effort to better understand the events of the day isn't being made easier by the fact that the voice and data recorders aboard the two hijacked jetliners that hit the twin towers haven't been recovered. The **four devices - and all the clues they would hold - have failed to turn up** in the 1.25 million tons of steel, concrete and other material taken from ground zero."*
- *"It's extremely rare that we don't get the recorders back. I can't recall another domestic case in which we did not recover the recorders," said Ted Lopatkiewicz, spokesman for the National Transportation Safety Board. (CBS News report, Feb. 2002)*

Behind-the-Scenes

## GROUND ZERO

World Trade Center September 11, 2001

A Collection of Personal Accounts



with  
Honorary Firefighter Michael Bellone  
Retired Firefighter Robert Barrett  
and

Firefighter Kenny Escoffery, Firefighter George Kozlowski, Firefighter Bob Humphrey, Firefighter Tom Fenech, NYPD Highway Patrol Lieutenant Claudio Fernandez, Dr. Rodney Leibowitz, Firefighter Lou Chinal, Ralph Shakartan, Rob Miller, Frank Silecchia, Dr. Jay Schmitzer, Vincent LaTerra, Firefighter Nicholas DeMasi, Firefighter Jim Cody, Dennis Fish, Julie Franco, The Rev. Miles DeChamplain Ph.D., Battalion Chief Jim Riches, Debbie Mashejian, Kathy Barnett, Firefighter Tim Lepinski, Nicholas Gallo, Sam Elijah, Firefighter Mike LaRosa, Debby Bullentini, Justina Schiano-Romano, Noah Silecchia, Stephen P. Porter, Assistant Chief Firefighter Dave Dean, Andrew Fletcher, Vincent LeVien, Jiri Boudrik.

Written by Gail Swanson  
Contributing Editor Dennis Fisin

# Could mini-nukes have been used on the Towers?

- Hypothesis was raised by someone → we collect experimental evidence to find out! (Scientific method)
- Nuclear weapons release radioactive ash -- and copious amounts of neutrons which will activate steel and other materials. This is called neutron activation.
- We tested dust samples and a solidified metal sample for radioactivity: **we found ZERO RADIOACTIVITY. This over-rules the mini-nukes hypothesis.**
- Note that concrete pulverization is often achieved in controlled demolitions with chemical explosives, e.g., the Seattle Kingdome demolition; mini-nukes are not needed for pulverization!



## **Tritiated water: Traces only, provides further strong evidence AGAINST mini-nuke hypothesis**

- “Traces of tritiated water (HTO) were detected at the World Trade Center (WTC) ground zero after the 9/11/01 terrorist attack. A water sample from the WTC sewer, collected on 9/13/01, contained  $0.164 \pm 0.074$  ( $2 \sigma$ ) nCi/L of HTO. A split water sample, collected on 9/21/01 from the basement of WTC Building 6, contained  $3.53 \pm 0.17$  and  $2.83 \pm 0.15$  nCi/L, respectively. These results are well below the levels of concern to human exposure...”  
<http://www.llnl.gov/tid/lof/documents/pdf/241096.pdf>
- **Tritium from a thermonuclear bomb would be way above these trace levels!** Hydrogen bombs use tritium as part of the “fuel.”
- Report found that tritium radioluminescent (RL) devices were probable sources of the trace amounts of tritium found at ground zero (not just tritium from the exit signs of the jet planes).



## Mere trace amounts of Iodine-131 found in Hudson River sediments

- “Sediment cores pulled from the Hudson River near the World Trade Center site just a month after the Sept. 11, 2001, terrorist attacks contain a thin layer of metal-rich ash and pulverized debris. The top 3 cm of silt contained layers with unnaturally high concentrations of copper, strontium, and zinc from the towers, says Sarah D. Oktay, a geochemist...
  - Oktay and her colleagues also found that the sediments contain small but measurable quantities of iodine-131, a human-made radioactive isotope with a half-life of about 8 days. **Total iodine concentrations were actually lower in the [WTC] debris-filled layers, which means the source of the element probably isn't related to the attacks.** Also, the iodine probably didn't leak from nuclear power plants upstream because other telltale radioactive isotopes didn't turn up.
  - Instead, says Oktay, **the iodine—which is used in various medical treatments and sometimes carried home internally by patients—probably entered the river through local sewage systems.** The researchers report their findings in the Jan. 21 Eos.”
  - **So, iodine concentrations were LESS in the upper debris layers associated with the WTC dust. And Iodine-131 was only found in very low-level trace amounts anyway. These data provide further evidence against the “mini-nuke-caused-WTC-destruction” hypothesis.**
- 
- Science News, Volume 163, No. 7, February 15, 2003, p. 109.
  - Oktay, S.D., et al. 2003. WTC geochemical fingerprint recorded in New York harbor sediments. Eos 84(Jan. 21):21–28.

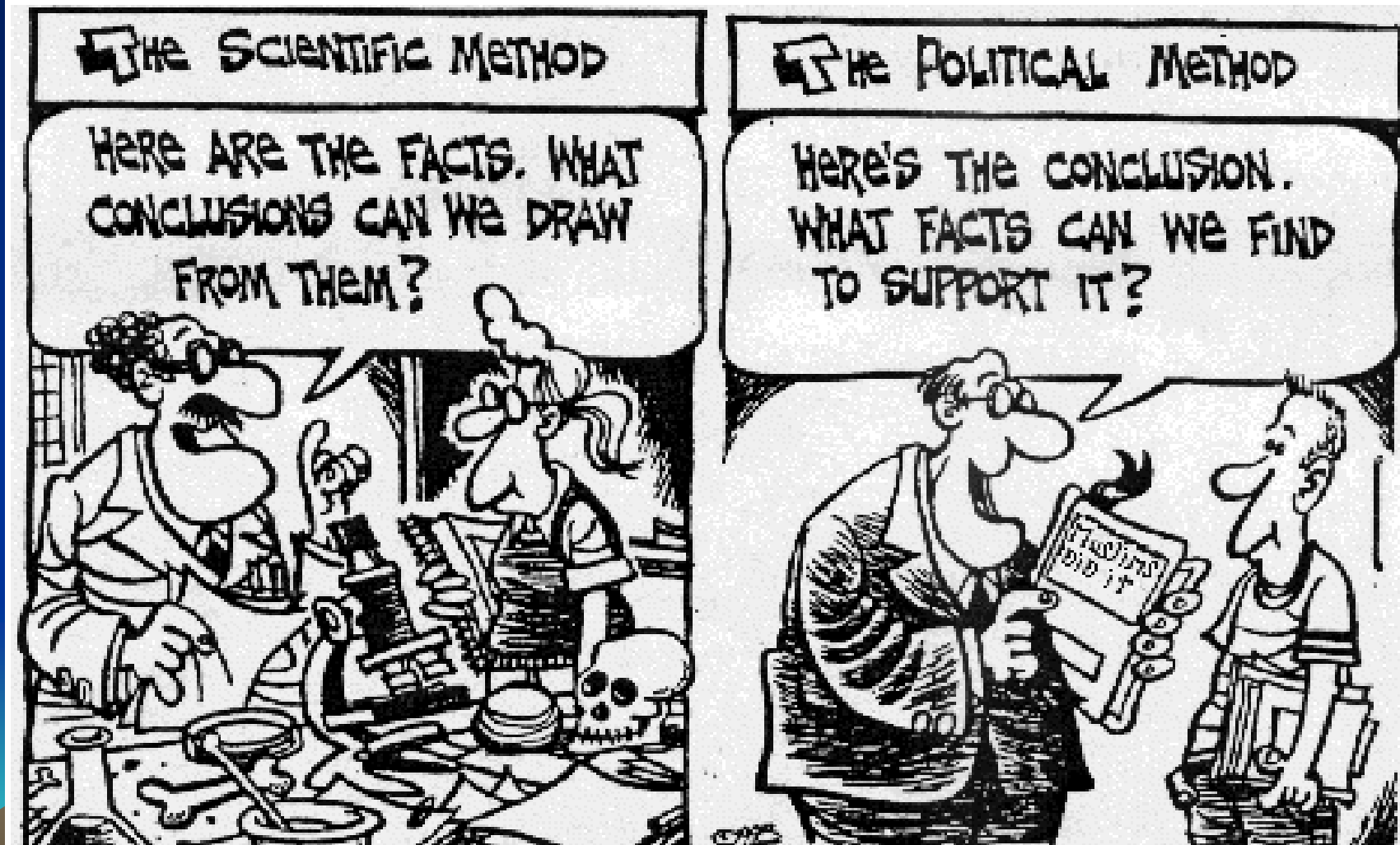


- Finally, people themselves become “detectors” for the radiations associated with nuclear bombs.
- Nuclear bombs produce copious x-rays, gamma-rays and fast neutrons, which are fatal at close range and cause radiation sickness at greater distances.
- NO such immediate fatalities or radiation sicknesses were reported.
- ***Thus, the physical evidence is overwhelmingly against the theory that “mini-nukes were used at WTC”.***





Is it possible that others were involved in 9/11? What does science tell us? Is the Official "Al Qaeda alone did it" theory **FALSIFIABLE**? Can any evidence possibly overturn the official 19-hijacker conspiracy theory? If a theory cannot be falsified by any experiments or data, it is **NOT GOOD SCIENCE**.



**Pres. Bush stated with candor: "We have no evidence that Saddam Hussein was involved with the 11 September attacks," (6 months after the attack on Iraq)**

Full report here: <http://news.bbc.co.uk/2/hi/americas/3118262.stm>. Sept. 18, 2003

- So why did U.S. attack Iraq? Who is pushing these wars?
- What's next?
- Iran, Syria?



- Note: Physicist W. Heisenberg declined to go along with German effort to make the uranium bomb

**“Talk of a U.S. strike on Iran is eerily reminiscent of the run-up to the Iraq war.”**

By Zbigniew Brzezinski, national security advisor to President Carter from 1977 to 1981.  
LA Times, OpEd, April 23, 2006

- **“IRAN'S ANNOUNCEMENT that it has enriched a minute amount of uranium has unleashed urgent calls for a preventive U.S. airstrike from the same sources that earlier urged war on Iraq.**
- **“...In short, an attack on Iran would be an act of political folly, setting in motion a progressive upheaval in world affairs. [He details reasons why]**
- **“American policy should not be swayed by the current contrived atmosphere of urgency ominously reminiscent of what preceded the misguided intervention in Iraq.**

(Brzezinski cont'd)

- “If there is another terrorist attack in the United States, you can bet your bottom dollar that there also will be immediate charges that Iran was responsible in order to generate public hysteria in favor of military action.”
- LA Times OpEd, 4/13/2006



# Civil Engineer's comment on Official Reports

- 1. A couple of months back I examined [Jones] claims in detail. Initially I was a bit incredulous
- so I downloaded all the official reports basically expecting to find holes in the good prof's hypothesis.
- I'm a professional civil engineer with a lot of experience in the construction of major structures and I was just astounded at what I found. In my COO days if my staff had put up reports like that... there is **no way they would have been accepted** and I would have been asking some very tough questions.
- The [official] reports are not at all convincing.
- That they are not is a serious worry.
- Regards, Ted F



# “Tower block fire aids 9/11 debate”

[http://news.bbc.co.uk/2/hi/uk\\_news/scotland/glasgow\\_and\\_west/5216788.stm](http://news.bbc.co.uk/2/hi/uk_news/scotland/glasgow_and_west/5216788.stm)

- A high-rise block in Glasgow has been set alight in an attempt to understand how blazes affect buildings and ensure future safety in emergencies. Jose Torero, professor of fire safety engineering at the University of Edinburgh, conducted the experiment on a 24-storey tower block in Dalmarnock.
- He also hopes it will shed light on why the Twin Towers collapsed on 9/11.
- **Prof Torero said he believed the World Trade Centre in New York should have "withstood burnout" after it was hit.**
- The collapse of the towers in September 2001, after they were hit by hijacked aircraft, resulted in the deaths of almost 2,800 workers and 350 firefighters and emergency workers.
- **Prof Torero said: "It didn't even cross my mind the buildings would collapse.**
- **"From my perspective, those buildings were designed to last structurally for between three to four hours, enough time to get everyone out who had survived.**
- The experiment took place in a block of flats on Millerfield Place and Allan Street.
- In one room, more than nine miles of cable and sensors were installed.

Building-fire expert and Editor-in-chief of Fire Engineering  
EMS demands stop to “destruction of evidence”

- “**..Structural steel from the World Trade Center has been and continues to be cut up and sold for scrap. Crucial evidence that could answer many questions... is on the slow boat to China,** perhaps never to be seen again in America until you buy your next car.
- “**Such destruction of evidence shows the astounding ignorance of government officials to the value of a thorough, scientific investigation...** I have combed through our national standard for fire investigation, NFPA 921, but nowhere in it does one find an exemption allowing the destruction of evidence for buildings over 10 stories tall. To treat the September 11 incident any differently would be the height of stupidity and ignorance.
- “**The destruction and removal of evidence must stop immediately.**
- “**The federal government must scrap the current setup and commission a fully resourced blue ribbon panel to conduct a clean and thorough investigation of the fire and collapse, leaving no stones unturned.**”
- Editorial by Bill Manning, *Fire Engineering*

# Comment on controlled demolition (“implosion”) by a demolition expert (2<sup>nd</sup> theory, not considered by FEMA, NIST or 9-11 Commission)

- A demolition expert comments in *New Scientist*, 12 Sept. 2001:
- **“It looked like a classic controlled demolition**, said Mike Taylor of the National Association of Demolition Contractors in Doylestown, Pa.
- “If there's any good thing about this it's that the towers tended not to weaken to one side,” said Taylor. “They could have tipped onto other buildings...”
- “The collapse of the WTC towers mirrored the strategy used by demolition experts. In controlled demolitions, explosives are placed not just on the lowest three floors but also on several consecutive floors...”
- “The explosions at the higher floors enable the collapse to gain downward momentum as gravity pulls the full weight of unsupported higher floors down into lower floors in a snowballing effect.
- **“It cascaded down like an implosion,” says Taylor.”**

**“The temperature of the fire at the WTC was not unusual, and it was most definitely not capable of melting steel.” [Prof. Eagar, MIT, 2001]**

**“Your gut reaction would be the jet fuel is what made the fire so very intense, a lot of people figured that's what melted the [WTC] steel. Indeed it did not, the steel did not melt.” (Dr. Gayle, NIST, 2005)**



- Steel-frame: Huge core and heat sink. Not Hollow!

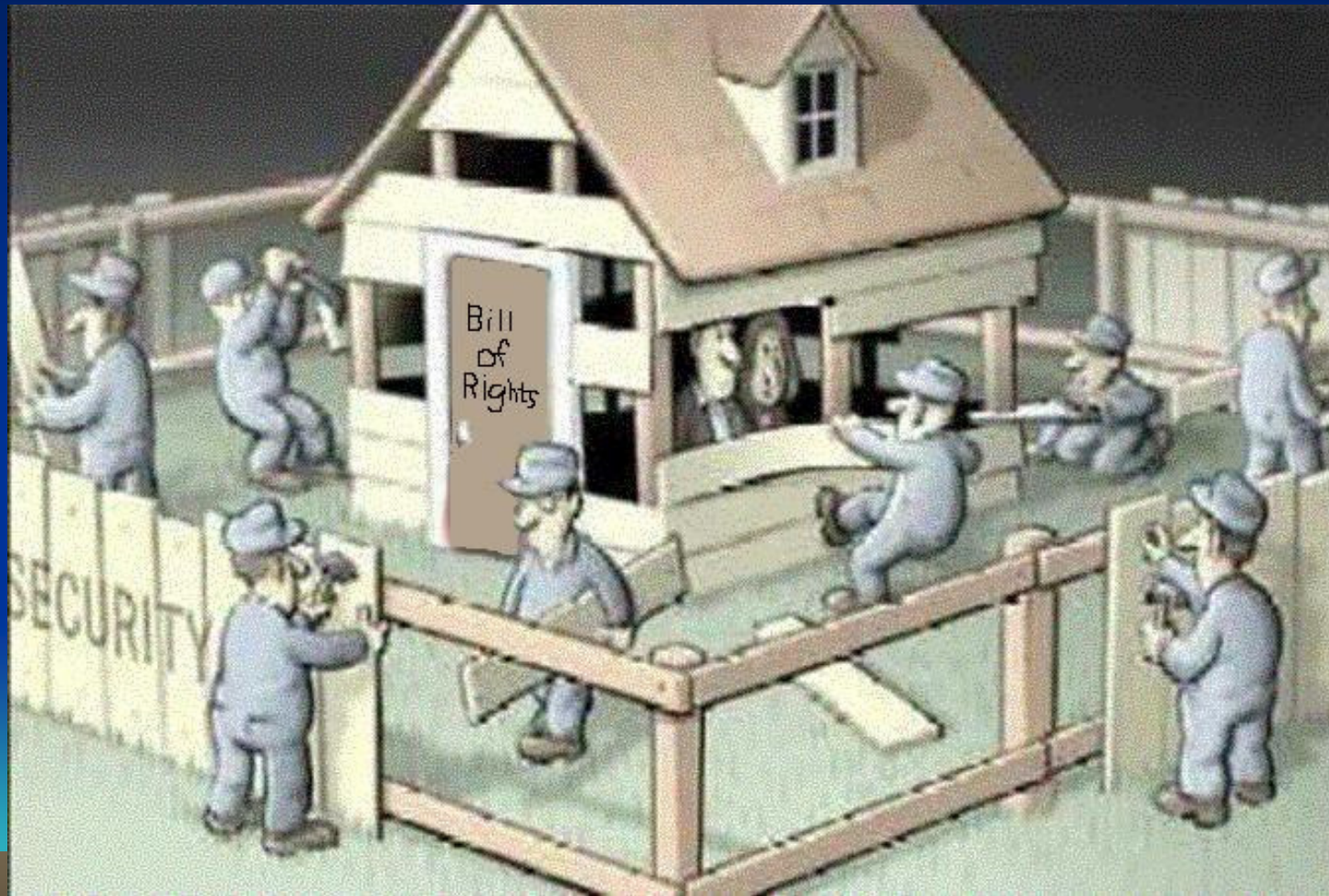


# A little humor to lighten your day...





**“He who would trade liberty for some temporary security, deserves neither liberty nor security”  
Benjamin Franklin**

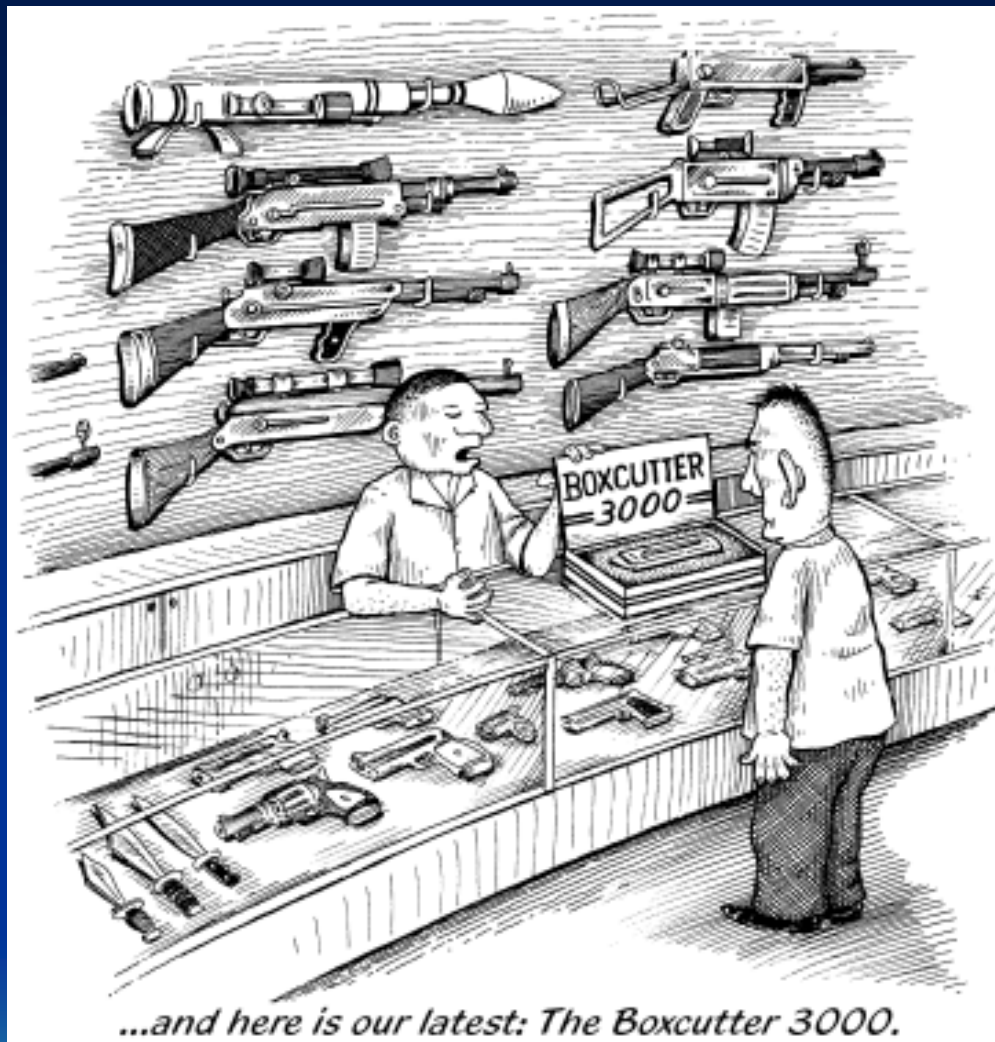


Nearly all WTC steel quickly shipped to Asia,  
melted down, destroyed...



Figure 11. Cartoon by Johnny Hart portrays extremely pathological science. Here, the scientist more than overlooks negative evidence; he destroys it. (Reprinted with permission from Johnny Hart and Creator's Syndicate, Incorporated.)





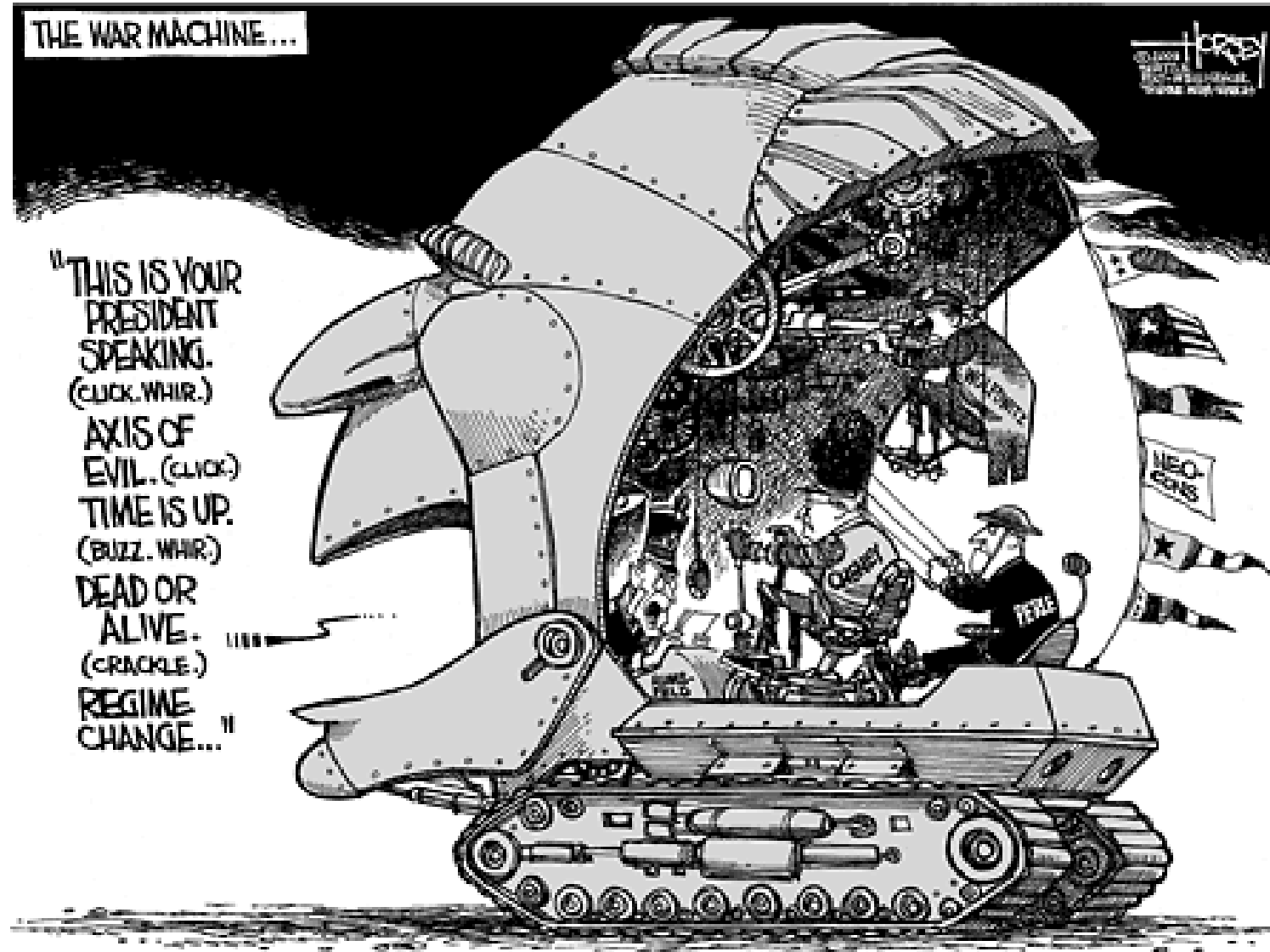
*...and here is our latest: The Boxcutter 3000.*



THE WAR MACHINE...

© 2001  
THE  
WILLIAMS  
SONS  
OF  
THE  
WILLIAMS  
SONS  
OF  
THE  
WILLIAMS  
SONS

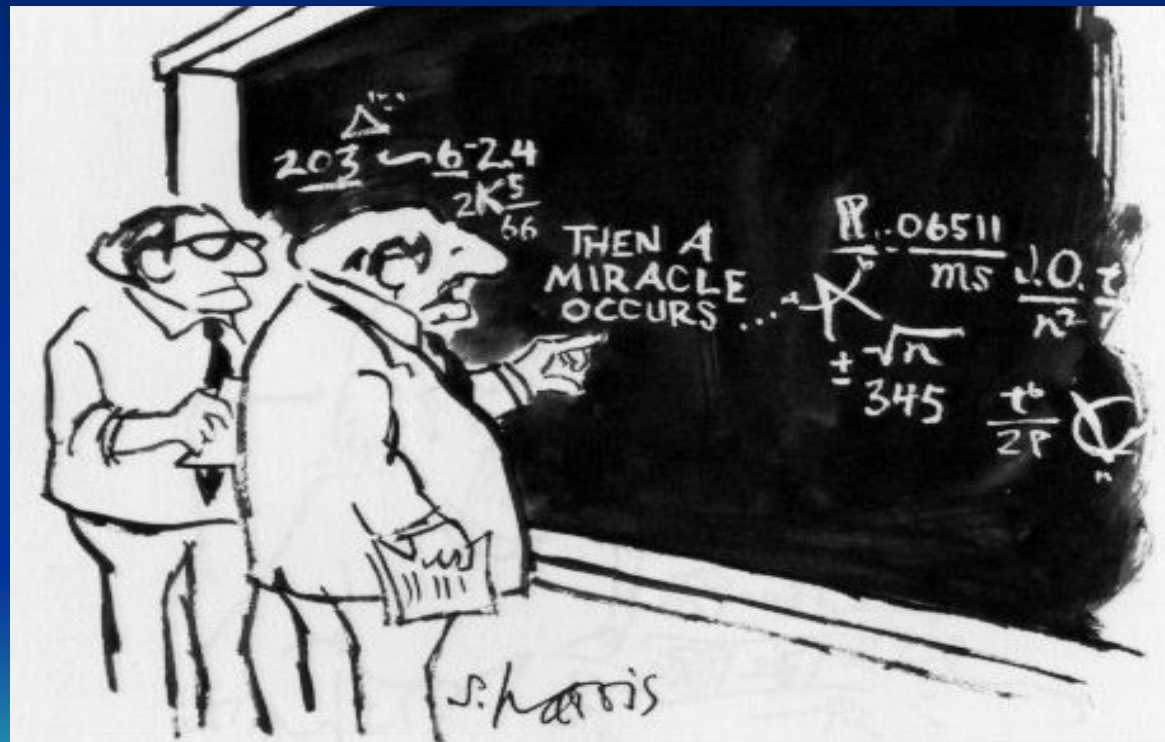
"THIS IS YOUR  
PRESIDENT  
SPEAKING.  
(CLICK. WHIR.)  
AXIS OF  
EVIL. (CLICK)  
TIME IS UP.  
(BUZZ. WHIR.)  
DEAD OR  
ALIVE. (CRACKLE.)  
REGIME  
CHANGE..."







How does one get from available data (NO tall steel-frame building complete collapses before due to fires/damage, ever) to three complete WTC collapses on one day (9-11)?



"I think you should be more explicit here in step two."

from *What's so Funny about Science?* by Sidney Harris (1977)

# STRAW AND CLOVER

911 - WHAT IS THE TRUTH?

A COMIC BY DAVE KORESSEL

ARTWORK BY AARON KORESSEL



HMM... THAT SURE IS STRANGE...

MOST PEOPLE DON'T KNOW THAT THREE BUILDINGS COLLAPSED.

THE THIRD ONE COLLAPSED STRAIGHT DOWN AT NEARLY FREEFALL SPEED, LIKE THE OTHER TWO - NEATLY INTO ITS OWN FOOTPRINT!



THEY SAID IT WAS BECAUSE OF THE FIRE. BUT A STEEL FRAMED BUILDING HAS NEVER COLLAPSED DUE TO FIRE. AND THIS FIRE WASN'T EVEN THAT EXTENSIVE!

I JUST CAN'T UNDERSTAND WHY IT WASN'T EVEN MENTIONED IN THE 911 COMMISSION'S REPORT.



WELL IF THEY DIDN'T INVESTIGATE THAT, WHAT ELSE DIDN'T THEY LOOK INTO? I ALWAYS TRUSTED OUR GOVERNMENT ENOUGH TO CONDUCT A PROPER INVESTIGATION.



HEY BUDDY! CHEER UP! WE TRANSFERRED OUR REVENGE TO SADDAM! THAT SCORE'S SETTLED!

YEAH, DON'T YOU REMEMBER? WE FOUND HIM IN A HOLE! WASN'T THAT GREAT?



BUILDINGS 1 & 2 EXPLODED OUTWARD WITH ENORMOUS FORCE, PULVERIZING TONS OF CONCRETE. FIRE WEAKENED THE STEEL? I DON'T THINK SO.



BUSH & CHENEY FOUGHT ADAMANTLY TO BLOCK, LIMIT, & DELAY ANY INVESTIGATION, CONGRESSIONAL OR OTHERWISE. INDEED THEIR ODD BEHAVIOUR PROMPTED THE WASHINGTON POST & THE NY TIMES TO ASK "WHAT DO THEY HAVE TO HIDE?"

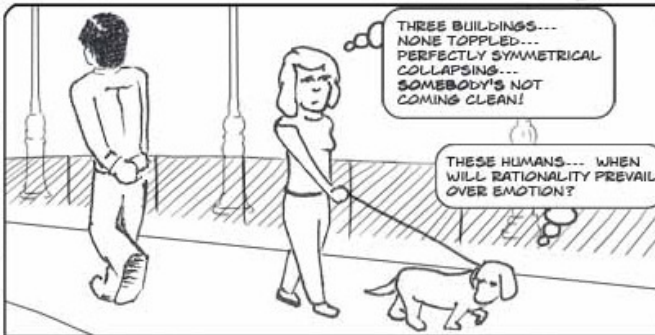
PRETTY SCARY HOW THEY'VE USED OUR 911 FEARS TO TAKE US TO WAR, TAMPER WITH THE CONSTITUTION, & JUSTIFY DOMESTIC SPYING. I JUST CAN'T BELIEVE THEY'D ATTEMPT A LIE THIS HUGE!



THERE ARE MANY EYEWITNESS TESTIMONIES OF SUCCESSIVE EXPLOSIONS, SOUNDING LIKE "BOMBS" - FROM FIREFIGHTERS & WTC EMPLOYEES. THE 911 COMMISSION, HOWEVER, REFUSED TO HEAR THEM.

THREE BUILDINGS... NONE TOPPLED... PERFECTLY SYMMETRICAL COLLAPSING... SOMEBODY'S NOT COMING CLEAN!

THESE HUMANS... WHEN WILL RATIONALITY PREVAIL OVER EMOTION?

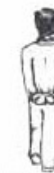


THE OFFICIAL STORY IS THAT THE UPPER FLOORS OF THE TOWERS CRASHED THROUGH TONS OF STEEL & CONCRETE AS FAST AS THEY WOULD FALL THROUGH THIN AIR. THAT IS IMPOSSIBLE.

"WHATEVER ANGUISH OF SPIRIT IT MIGHT COST, I AM WILLING TO KNOW THE WHOLE TRUTH; TO KNOW... IT - NOW."

-PATRICK HENRY 1776

WOW.



THERE'S MORE. READ ABOUT IT: SCHOLARSFOR911TRUTH.ORG 911TRUTH.ORG



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