

Third Saturday Seminar 2004-2005

**We Dig Deeper Into The Future
Challenges of Being Human**

Fourth Session

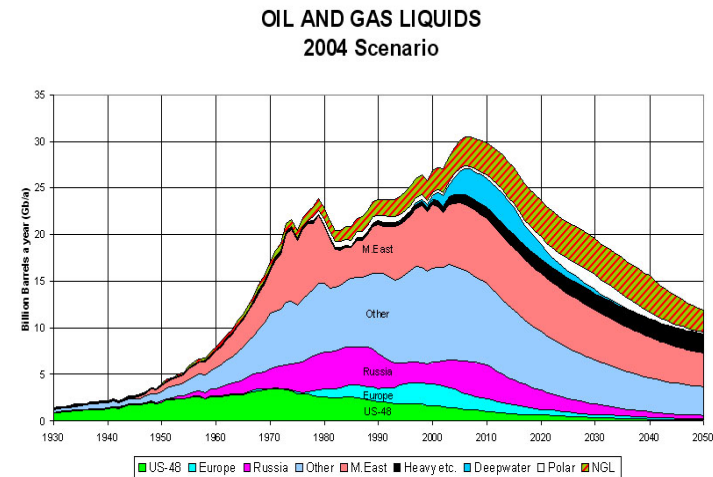
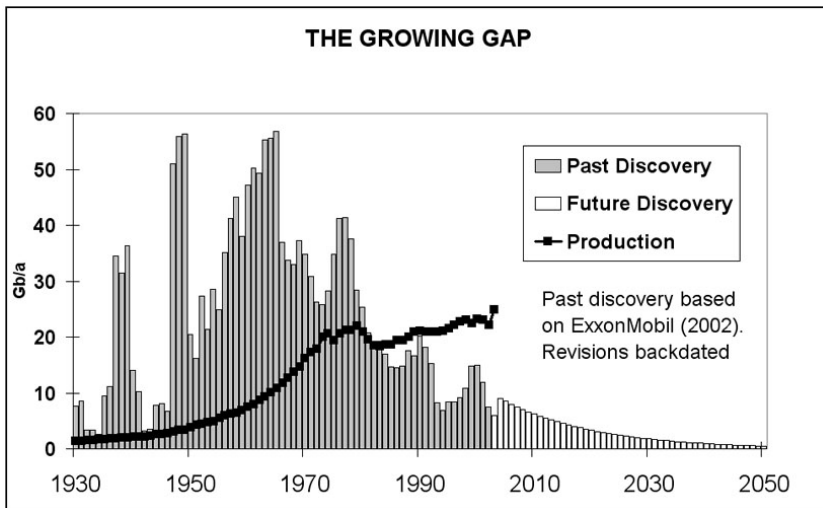
“Peak Oil and the Future”

Curt Gibby

**ALL Program, Montgomery College
Conroe, Texas**

15 December 2004

Third Saturday Seminar 2004-2005
We Dig Deeper Into The Future
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Program for the Fourth Session

- 9:30 Introduction
- Current Events (20 Minutes +/-)
- Chose The (5) Issues We want to Work on
- Part 1 - Discussion
- 10:40 Break - 10 minutes
- 10:50 Part 2 - Discussion Continues
- 11:50 Summary - Conclusion
- Closure – Feedback – Next Time

Disclaimer

The following presentation consists of material from many sources in addition to my own work and experience. I have tried to always give appropriate attribution for this material, but may have overlooked some. In many cases an Internet link to the source material is provided in order to allow you to better put these excerpts in context.

The inclusion of materials and the facts, opinions and ideas contained within them, does not in any way mean that I personally endorse or disavow any of them in whole or in part but that it is of importance to the discussion.

If you have any questions please contact me.

Curt Gibby <gcgconsult@n-star.com>

To Any Members of Law Enforcement

If there are any members of law enforcement here in any sort of official capacity and not in a uniform recognizable as one of law enforcement we ask that you identify yourself or selves, your agency, department or organization and your official reason for being here.

Rest assured that we are engaged in no illegal activity, but we are aware of, value and have faith in our Constitutional rights.

In any case you are welcome to stay and participate as a member or guest of the Third Saturday Seminar. But, if at any time you consider anything you see or hear happening or about to happen is or will be putting any one or all of us in jeopardy of breaking the law as you understand it, we request that you advise us of that situation .

This is consistent with your obligation as a peace officer or agent to protect and serve the people. Anything else will be a betrayal and you will be derelict in your duty. It will result in harm to those you are obligated to protect.

Before We Get Started

1. As tempting as it might be to think so, this is not a political rally for one side or another. It is a discussion of some very important real issues and questions which many, if not most of us share. Please, don't let political differences if you know about them, affect your friendships. History will tell who was right (maybe). In the meantime we need good friends, especially those who can be candid and friends at the same time.
2. By participating, we will help ourselves as well as the other seminarians deal with these important issues as we approach the election. Nobody has the "right answer" except for themselves. We all owe it to each other to respect and support each other. We are all Americans or guests. We will all benefit from or have to live with the outcome.
3. Please keep your remarks brief and to the point.
4. Have faith -- in each other and yourselves. **Our republic has lasted over 200 years.** We are the oldest living Constitutional democracy. Our **Constitution** limits the power of the leaders and **guarantees the rights of its citizens.** That 200 years has not all been smooth sailing. From time to time, generally in "times of war", **leaders have** usurped the authority of the Congress, **violated the Constitution and the rights of the people** who rightly or wrongly have acquiesced, being promised security. Something has always brought us back from the brink, but I don't think we ever make a full recovery. Best we keep our rights and respect for each other intact in the first place. Let's not let anything we say or do be harmful to each other.
5. Have fun - We always do.

Human purpose ...

"That everyone should eat and drink, and enjoy the good of all their labor, it is the gift of God"

(Ecclesiastes 3:13)

The Categorical Imperative (applied)

The stranger that comes to you shall be among you as the native, and thou shalt love him as thyself; for ye were strangers in the land of Egypt:

(Leviticus 19:33 (among others))

The Prophet Muhammad (peace be upon him) said:

"If you guarantee me six things on your part, I shall guarantee you Paradise. Speak the truth when you talk, keep a promise when you make it, when you are trusted with something fulfill your trust, avoid sexual immorality, lower your gaze (in modesty), and restrain your hands from injustice."

Courtesy of A. Solomon

Current Events

Molecule Harvests Water's Hydrogen

December 6, 2004

The key to producing clean hydrogen energy is finding a non-polluting method to extract pure hydrogen from its most abundant source -- water.

...

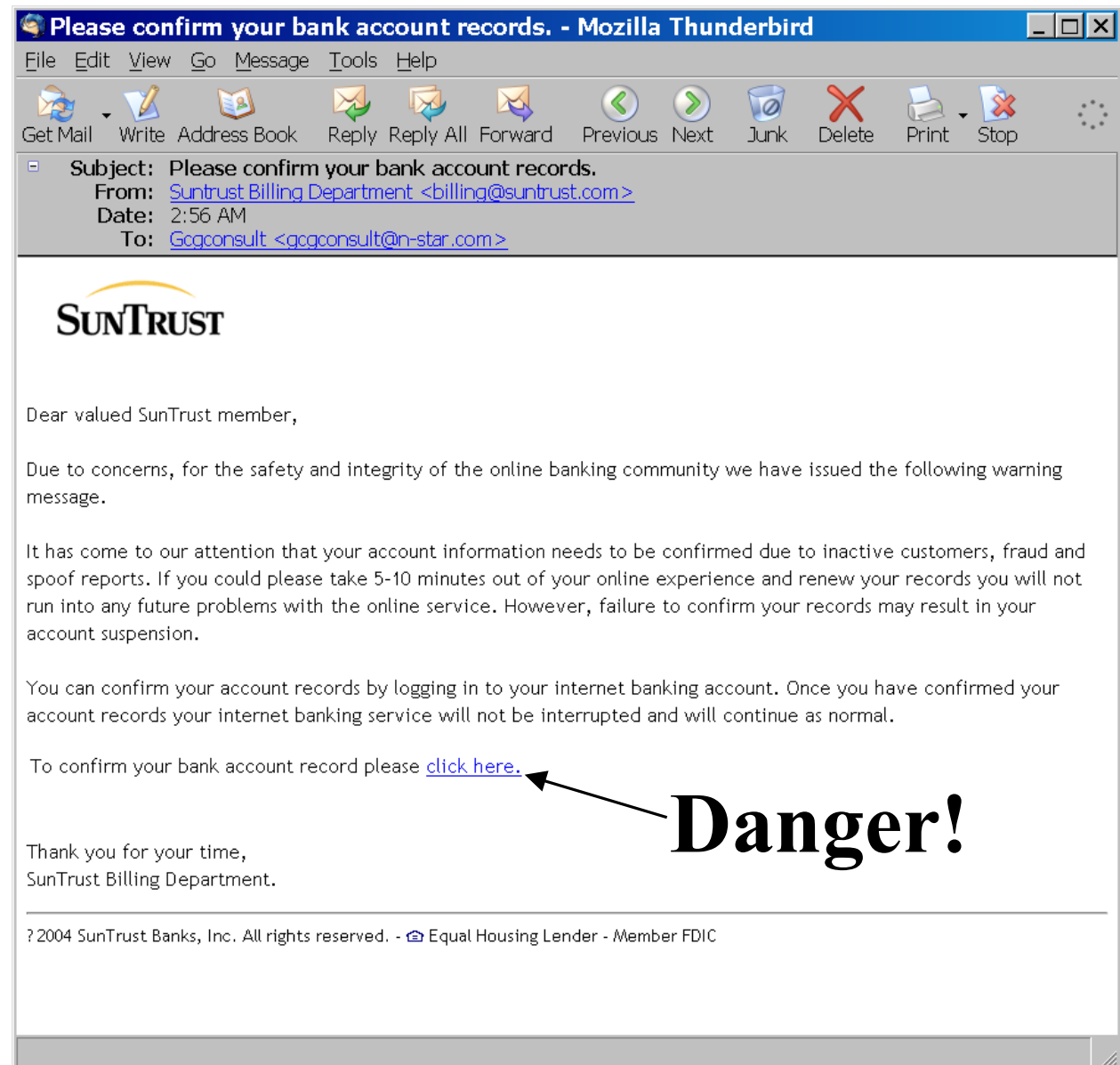
Virginia Polytechnic and State University researchers have developed a large molecule, or supramolecular complex, that combines sub-units that absorb light with sub-units that accept electrons.

The complex could be used to produce hydrogen for clean-burning combustion engines and fuel cells.

http://www.technologyreview.com/articles/04/12/rnb_120604.asp?trk=nl

Brave New World department ...

Never, never
“click” anything in
an email message
like this – your real
bank will never ask
you to do this by
email or phone–
this is a criminal
wanting your
personal
information



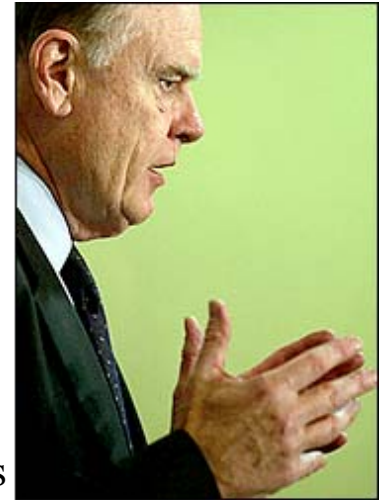
It's called "Phishing"

(Dollar, dollar, who's got the dollar?....)

Snow to Remain Treasury's Chief, White House Says

By DAVID E. SANGER, NY Times, December 9, 2004

WASHINGTON, Dec. 8 - President Bush asked Treasury Secretary John W. Snow on Wednesday to remain in his job, the White House said, after weeks in which Republicans close to the White House had talked openly about his impending departure and said administration officials were interviewing possible successors.



Jim Watson/AFP-Getty Images
John W. Snow, an economist and former railroad executive, was named to his post two years ago.

While White House officials did not say how long Mr. Snow might stay on, the announcement came after Mr. Bush and his top aides determined they had to put a stop to an embarrassing public breach over who should occupy the nation's most central economic policymaking post, several officials said.

With the dollar hovering at historic lows against the euro and Mr. Bush preparing for a two-day meeting next week to lay out economic strategy for the next term, one senior administration official said that "this was no time to send a signal of uncertainty."

...

But other officials said Vice President Dick Cheney had felt out or interviewed potential candidates for the job. The White House apparently did not warm to the alternatives, who included former Senator Phil Gramm of Texas and Gerald L. Parsky, a wealthy lawyer and venture capitalist who served as an assistant Treasury secretary in the Ford administration.

From the “Your Money or Your Life Department”

abc NEWS December 8, 2004 | Get Your Local News and Weather Search ABC Search

U.S.

All Sections ABC News Home > U.S.

Seniors Head to Canada for Cheaper Drugs

Seniors Head to Canada by Train to Buy Drugs, Some at About Half the Price They Pay in U.S.

AP Associated Press

NEW YORK Oct 12, 2004 — With a button pinned to her jacket that read "Drug Companies Make Me Sick," Mildred Fruhling, 76, joined a small caravan headed to Canada by train to buy cheaper prescription drugs.

The drugs she and her husband need are available at home in Edison, N.J., at a cost of about \$7,000 a year. In Canada, where she's going with more than 20 other senior citizens, she'll buy a three-month supply for about half the U.S. price.

"I don't think it's a fair scenario, so I'm going to Canada to get the word out that we have to change the system," Fruhling said.

The caravan, dubbed "The Rx Express," started Monday in Miami and stopped in Manhattan on Tuesday to add passengers. Participants will leave for Toronto Wednesday morning and arrive in the evening.

MORE HEADLINES

- Congress Passes Intelligence Overhaul Bill
- Peterson's Frail Mom Testifies in Court
- 70-Year-Old

"It's criminal for this country to require patients, seniors, to travel 3,000 miles to get the prescription drugs they need," said Jerry Flannagan of the Foundation for Taxpayer and Consumer Rights, a nonpartisan lobbying group, which organized the trip.

The foundation wants the U.S. government to cut Medicare costs and the expenses of patients by negotiating bulk-purchasing agreements with pharmaceutical companies.



Mildred Fruhling, left, from Edison, N.J., listens during a press conference in New York, Tuesday, Oct. 12, 2004. Fruhling, 76, is among a group of senior citizens on a train trip from Florida to Canada to buy prescription drugs she and her husband need at a much lower cost than they pay at home. (AP Photo/Bebeto Matthews)

trees in polk county florida



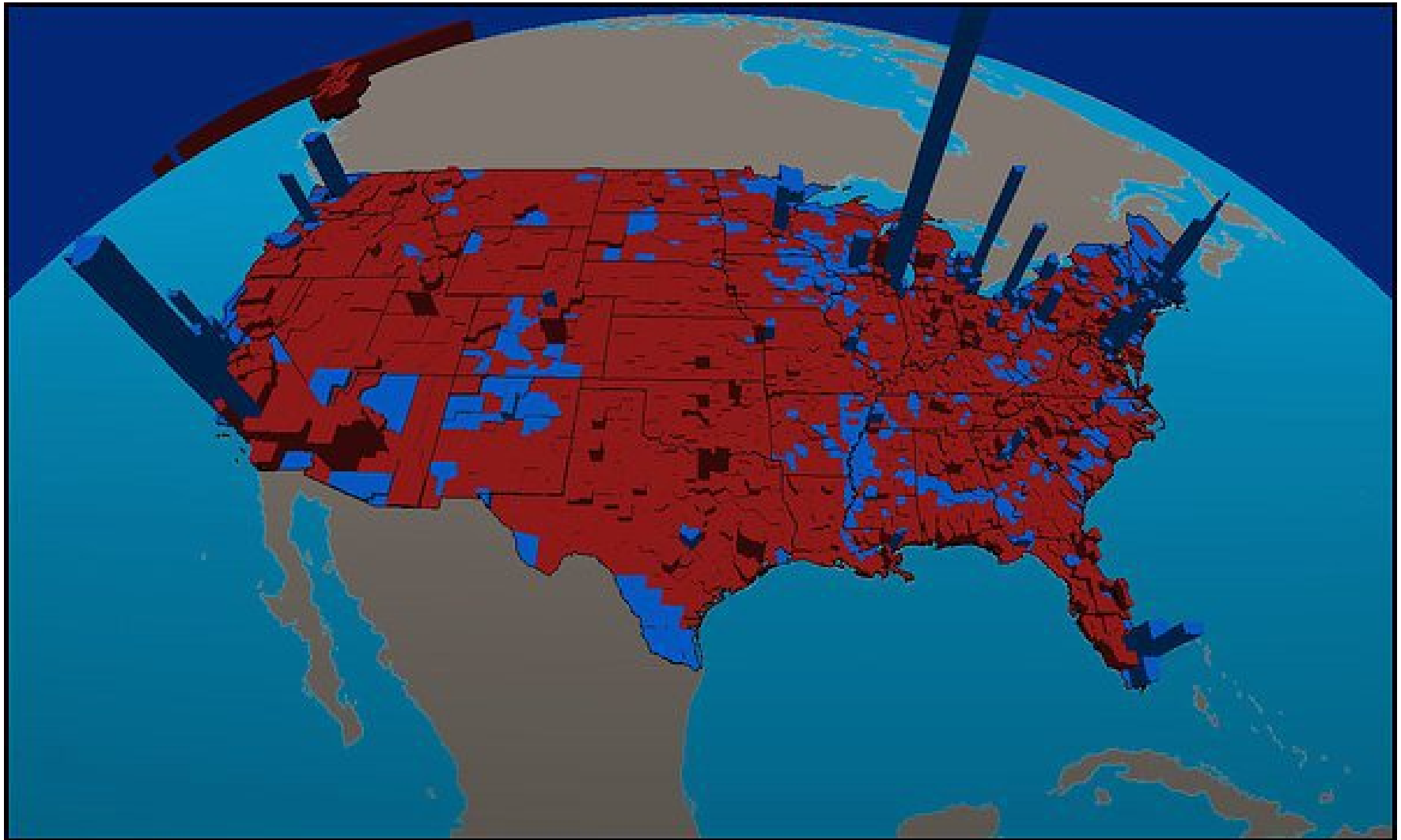
Harris County Green Party - GENERAL MEMBERSHIP MEETING

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BAGBY

December's meeting will have minimal business, followed by a screening of the underground hit video "The End of Suburbia." This documentary analyzes the frightening ramifications of the oil production reaching its peak, which experts believe will happen soon (if not already).

For information about the video, contact Alfred Molison, 713-726-9009 or alfredm123@hotmail.com



“It seems the only map I’ve seen that really brings home the “blue” voters.”

The New York Times > Washington > Commanders Are Faulted on Assaults...

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http://www.nytimes.com/2004/12/08/politics/

The New York Times
nytimes.com

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December 8, 2004

Commanders Are Faulted on Assaults at Academy

By THOM SHANKER

WASHINGTON, Dec. 7 - Successive commanders at the Air Force Academy failed over the course of a decade to acknowledge the seriousness of sexual assault and harassment at the Colorado Springs campus, and the service only recently imposed measures to change a climate that tolerated abuse of female cadets, the Pentagon inspector general has found.

The inspector general's findings, released Tuesday by the Pentagon, said sexual assaults against women were reported almost 150 times over 10 years but that little action was taken until the accusations became public in 2003.

"We conclude that the overall root cause of sexual assault problems at the Air Force Academy was the failure of successive chains of command over the past 10 years to acknowledge the severity of the problem," wrote Joseph E. Schmitz, the Defense Department inspector general, in a letter accompanying the report, dated Dec. 3.

"Consequently, they failed to initiate and monitor adequate corrective measures to change the culture until recently," Mr. Schmitz added.

Eight Air Force officials were found to share responsibility for "creating, contributing to or abiding the unique sexual assault reporting program" at the academy and for "the resulting problems," the inquiry found.

A summary of the report released by the Pentagon did not include their names, nor did it offer recommendations for discipline. All of the academy's senior leaders from the decade under scrutiny have been replaced.

THE COST OF OIL: NIGERIA

15/18

<<

play

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Jacob Silberberg / Getty Images

Children wade through a mangrove swamp covered with crude in October near Mogho, Nigeria. A Shell pipeline fire there — the result of sabotage, according to the company — led to a brief bump in world oil prices.

<http://images.chron.com/content/news/photos/04/12/05/nigeria/15.jpg>

<http://www.chron.com/CDA/umstory.mpl/world/2937143>

The New York Times
December 7, 2004

INTELLIGENCE

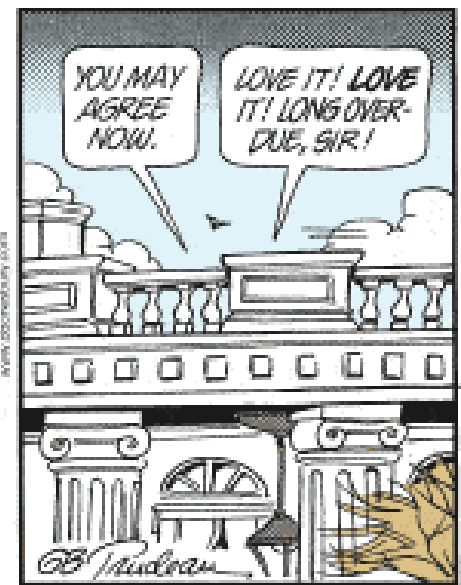
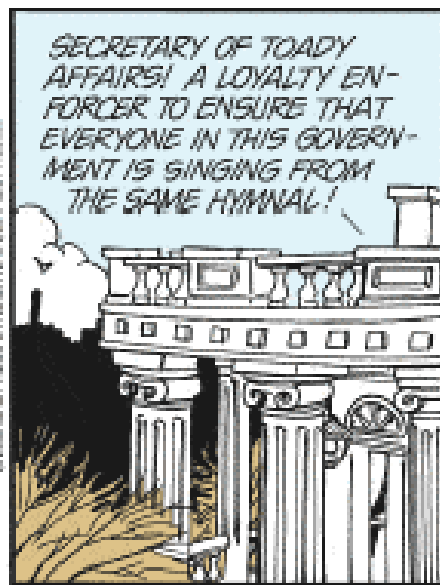
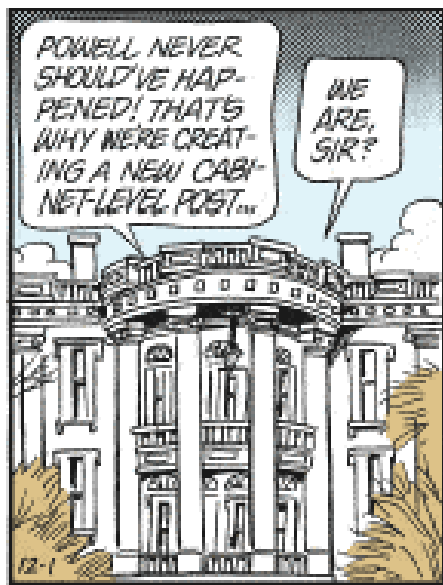
2 C.I.A. Reports Offer Warnings on Iraq's Path

By DOUGLAS JEHL

WASHINGTON, Dec. 6 - A classified cable sent by the Central Intelligence Agency's station chief in Baghdad has warned that the situation in Iraq is deteriorating and may not rebound any time soon, according to government officials.

The cable, sent late last month as the officer ended a yearlong tour, presented a bleak assessment on matters of politics, economics and security, the officials said. They said its basic conclusions had been echoed in briefings presented by a senior C.I.A. official who recently visited Iraq. ...

But over all, the officials described the station chief's cable in particular as an unvarnished assessment of the difficulties ahead in Iraq. They said **it warned that the security situation was likely to get worse, including more violence and sectarian clashes, unless there were marked improvements soon on the part of the Iraqi government, in terms of its ability to assert authority and to build the economy.** ...



Houston Chronicle, Dec 1 2004



Last Updated: Wednesday, 8 December, 2004, 06:37 GMT

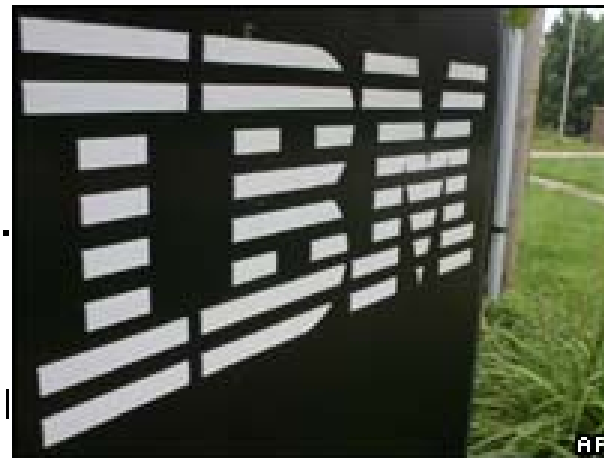
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Chinese firm buys IBM PC business

IBM, a pioneer of the personal computer business, has sold its PC hardware division to China's number one computer maker Lenovo.

After days of rumours, the announcement heralds a \$1.75bn (£900m) deal which will make the combined operation the third biggest PC vendor in the world.



IBM will be free to focus on more lucrative businesses

Lenovo, formerly known as Legend, has been pushing hard to spread its brand on the international stage.

IBM, meanwhile, will be free to focus on its other more lucrative businesses.

Last Updated: Wednesday, 8 December, 2004, 08:30 GMT

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US set to overhaul intelligence

The US House of Representatives has voted overwhelmingly to overhaul the country's intelligence services.

The proposals, intended to prevent another attack on the scale of 11 September 2001, were the subject of intense political wrangling.



The changes are intended to bolster intelligence to prevent terror attacks

The bill is expected to be passed by the Senate on Wednesday and be signed into law by President George W Bush.

A new role of national intelligence director will be created, tasked with co-ordinating the CIA and FBI.

The changes will represent the most radical shifts in the US intelligence system since the end of the Cold War.



Last Updated: Wednesday, 8 December, 2004, 00:00 GMT

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Prohibition still hurts America's wine makers



By **Stephen Evans**
BBC North America business correspondent

There is a strong view that America is the land of the bonfire of red tape. It's a place where bureaucracy and regulation never arrived with the Pilgrim Fathers. The free market rules.

Try telling that to the wine-makers of 24 states whose wineries are forbidden from selling directly to customers outside the borders.

If wine drinkers in New York or Florida, say, fancy a zinfandel from a small winery out of state, they are forbidden by law from buying it directly by mail order or over the internet.

The out-of-state "import" has to be sold through shops licensed by the authorities.



Some of the great secrets of America - fine wines made by small producers - never gets a big market in the big cities



The lo



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Last Updated: Friday, 3 December, 2004, 11:48 GMT

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Beijing warns EU on weapons ban

China has warned the EU that it risks damaging bilateral ties unless it lifts a 15-year embargo on selling arms to Beijing.

Chinese Vice Foreign Minister Zhang Yesui said the ban, imposed after the 1989 crackdown on protesters in Tiananmen Square, was "outdated".



The ban dates from the Tiananmen Square crackdown

Mr Zhang also denied that lifting it would fuel an arms race with Taiwan.

But analysts say the row is more about geopolitics and domestic economies than human rights.

The US is concerned that arms sold to China by the EU could be used against Taiwan and risk sucking the US into a regional conflict.

France and Germany, meanwhile, believe China could prove a fertile market for their arms and related industries.

France & Germany:

Do Arms Sales

Trump Human

Rights? Oui! Ja!

1984 is right around
the corner.

Subject: Justice

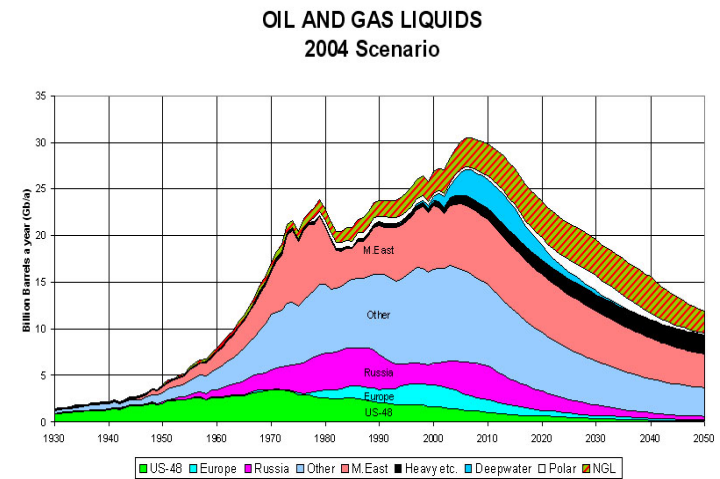
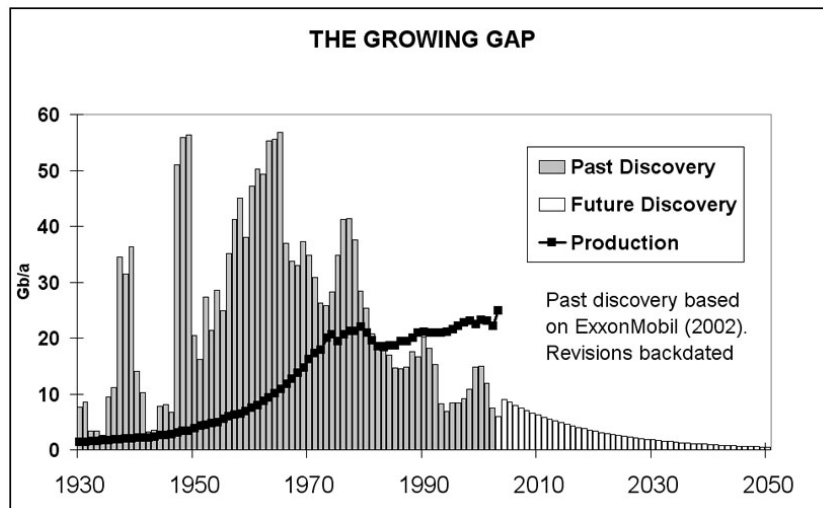
Tim Allen, comedian, had this to say about Martha Stewart: "Boy, I feel safer now that she's behind bars. O. J. & Kobe are walking around, but they take the one woman in America willing to cook, clean, and work in the yard and haul her butt to jail."

If you call yourself, “Christian”, Would Jesus Agree?

Main Program

“Peak Oil” and the Future

Curt Gibby



Energy developments

Primary energy consumption increased in all regions of the world in 2003. The strongest increase was in Asia Pacific, up 6.3%, while North America recorded the weakest growth, at 0.2%. As in 2002, coal was the fastest-growing fuel, rising by 6.9% globally.

Oil consumption was also relatively strong but the growth of natural gas use was held back by a steep, price-induced fall in US consumption. Hydroelectric generation was up by only 0.4% and nuclear generation suffered only the second contraction in its history.

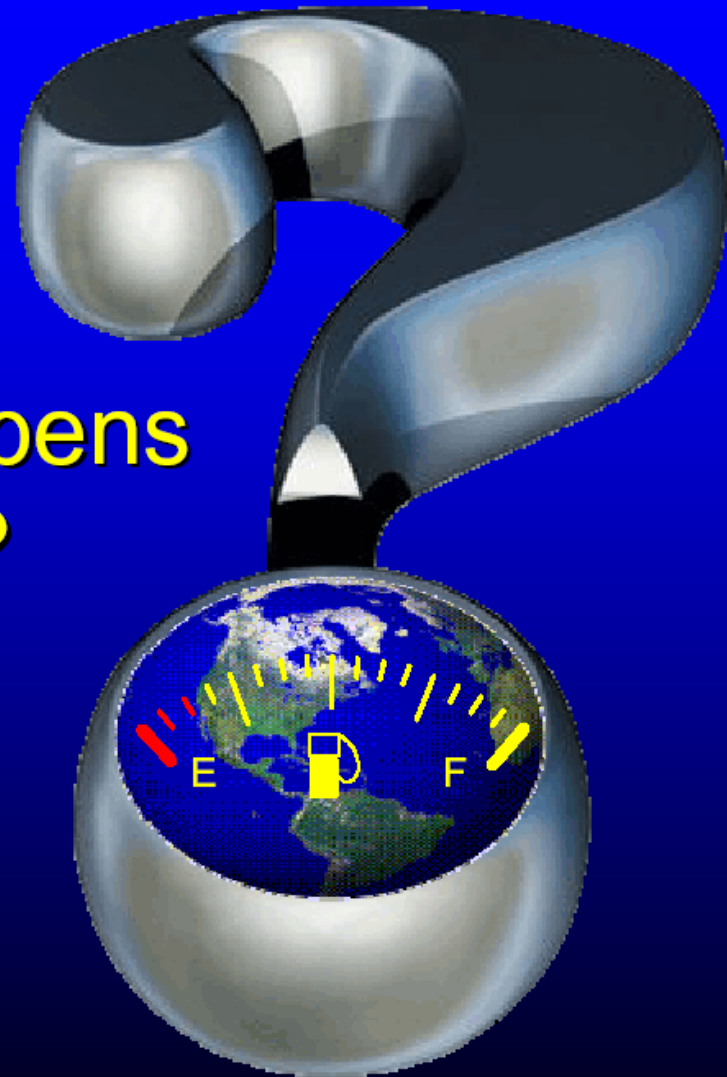
Statistical Review of World Energy 2004

<http://www.bp.com/sectiongenericarticle.do?categoryId=760&contentId=2014223>

Plan B: What Happens After Peak Oil?

Society Of Exploration Geologists
TLE Forum
Denver, Colorado
October 11, 2004

Presented By:
Matthew R. Simmons



<http://www.simmonsco-intl.com/files/SEG-TLE%20Forum.pdf>

2003 in review

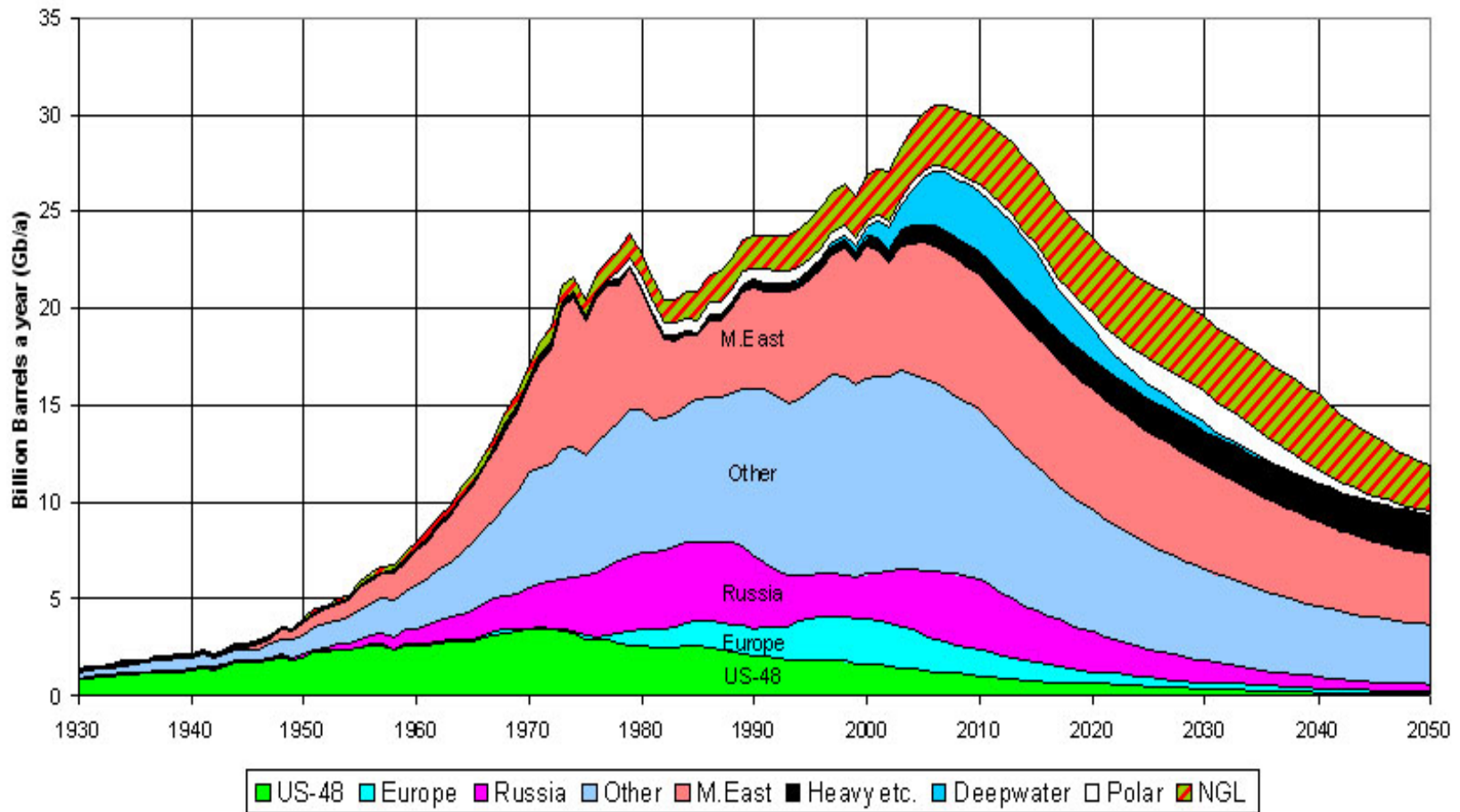
2003 was a year of exceptional strength in energy markets. Oil and natural gas prices reached new 20-year highs as world primary energy consumption increased by a relatively strong 2.9%, on the back of global economic recovery and the ongoing boom in China

Statistical Review of World Energy 2004

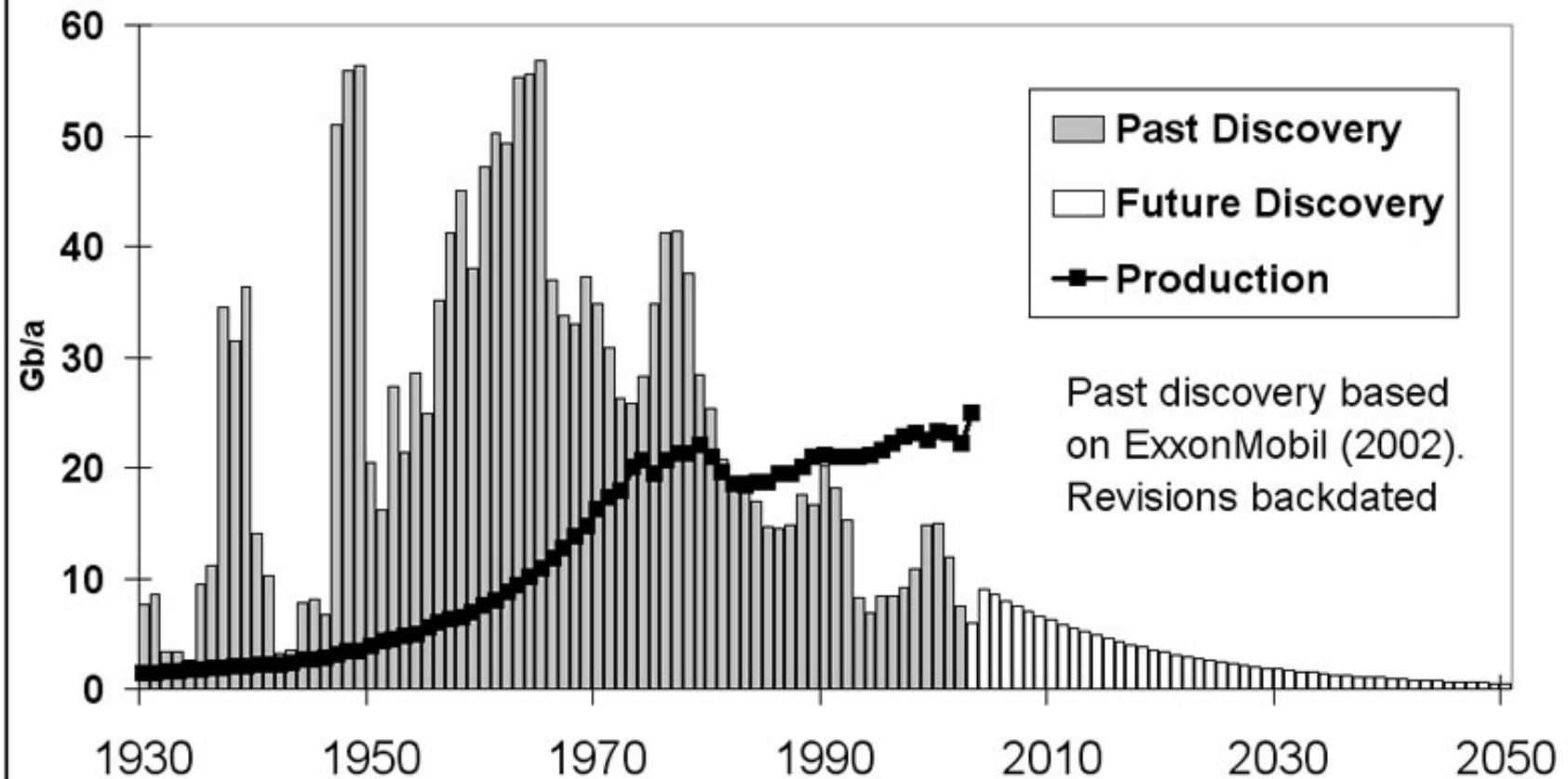
<http://www.bp.com/sectiongenericarticle.do?categoryId=760&contentId=2014223>

[statistical review of world energy full report slidepack 2004.ppt](#)

OIL AND GAS LIQUIDS 2004 Scenario



THE GROWING GAP



<http://www.peakoil.net/>

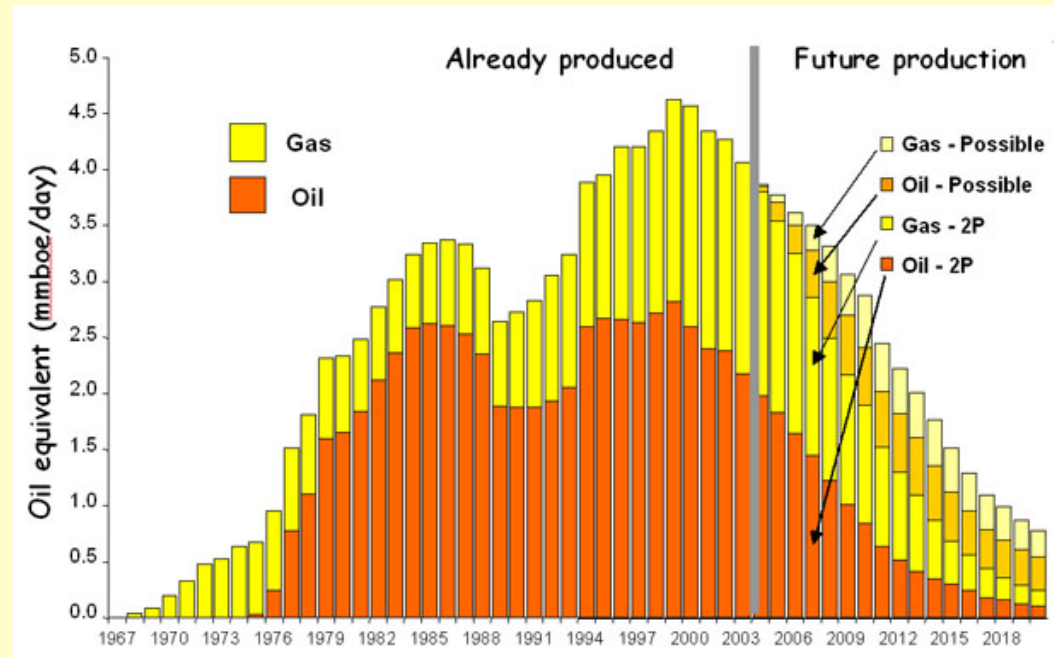
THE ASSOCIATION FOR THE STUDY OF PEAK OIL&GAS

Kjell Aleklett
President of ASPO

<http://www.peakoil.net/OilGasUK.html>

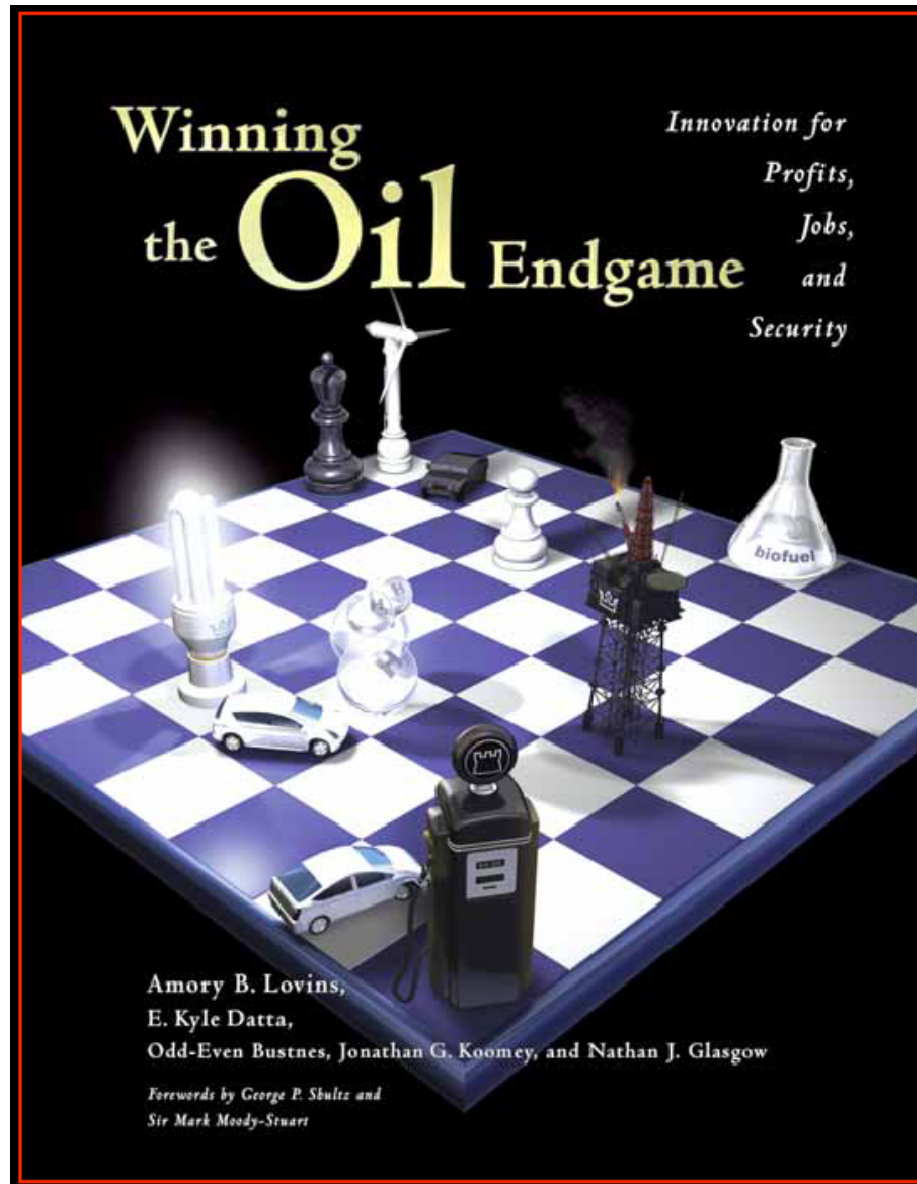
Oil and Gas - a Short Period of History for Great Britain

For several years now, Members of ASPO have presented predictions showing, amongst other things, that the production of oil and gas in the UK sector of the North Sea will occupy no more than a few pages in the history books. This is now confirmed by the UK Department of Trade and Industry that recently published a plot showing that by the year 2020 it is more or less all over.



The UK and Ireland have built an infrastructure that requires natural gas in large quantities, which in the future they will need to import. For the coming years, it may be possible to import from Norway, but that requires Norway to step up its production, which means in turn that its resources will decline much faster. It risks being soon in the same situation as is the UK today.

In a long term it is very big risk for Europe to rely on Norwegian natural gas. It would be better for Europe if Norway did not increase its production. That would keep the present export lines full for longer.



<http://www.oilendgame.org/SiteMap.html>

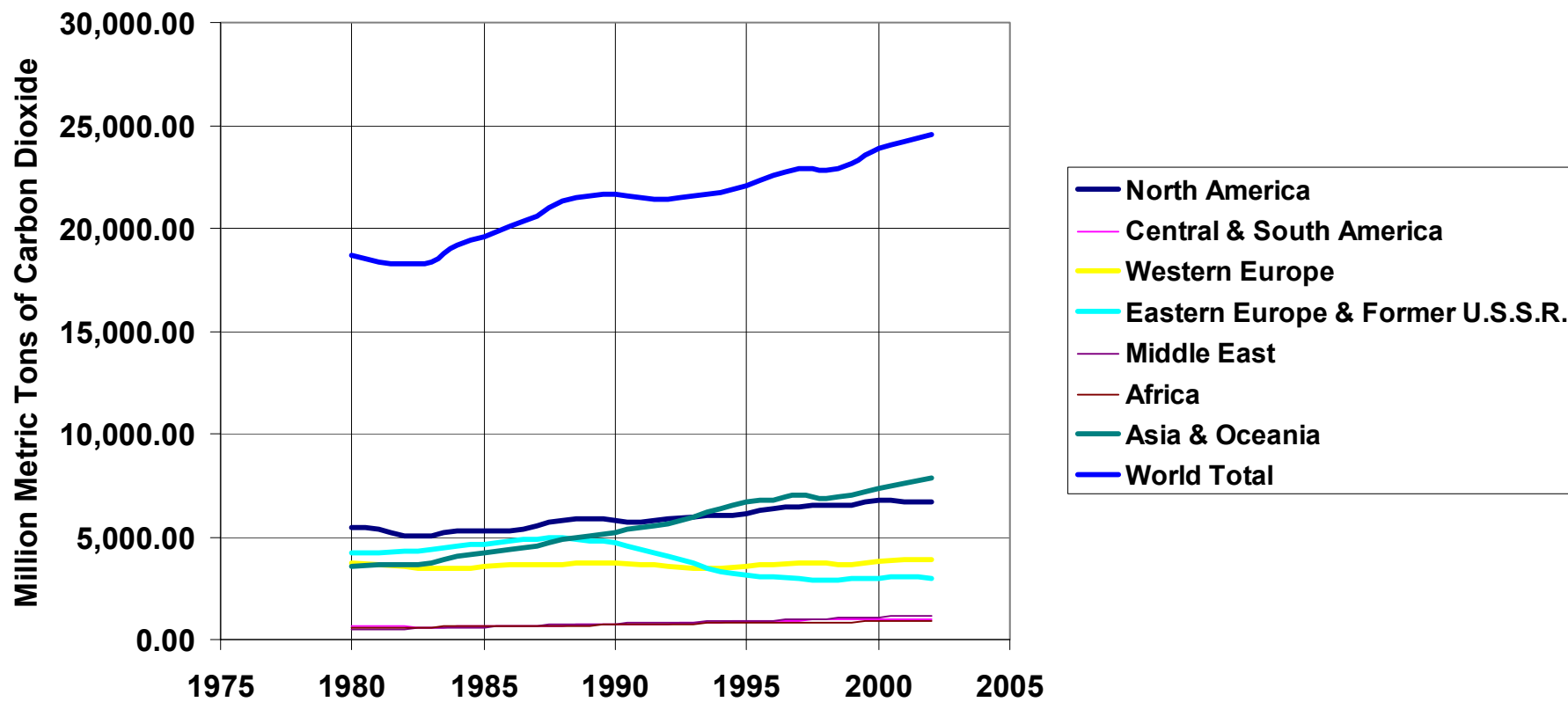
Saving half the oil America uses, and substituting cheaper alternatives for the other half, requires four integrated steps:

- **Double the efficiency of using oil.** The U.S. today wrings twice as much work from each barrel of oil as it did in 1975; with the latest proven efficiency technologies, it can double oil efficiency all over again.
- **Apply creative business models and public policies to speed the profitable adoption of superefficient light vehicles, heavy trucks, and airplanes.** Combined with more efficient buildings and factories, these efficient vehicles can cut the official forecast of oil use by 29% in 2025 and another 23% soon thereafter—52% in all.
- **Provide another one-fourth of U.S. oil needs by a major domestic biofuels industry.** Recent advances in biotechnology and cellulose-to-ethanol conversion can double previous techniques' yield, yet cost less in both capital and energy.
- **Use well established, highly profitable efficiency techniques to save half the projected 2025 use of natural gas,** making it again abundant and affordable, then substitute part of the saved gas for oil. If desired, the leftover saved natural gas could be used even more profitably and effectively by converting it to hydrogen,

These four shifts are fundamentally disruptive to current business models. industry leaders often get blindsided by disruptive innovations—technological gamechangers—because they focus too much on today's most profitable customers and businesses, ignoring the needs of the future. In the 108-year history of the Dow Jones Industrial Average, only one of 12 original companies remains a corporate entity today—General Electric. The others perished or became fodder for their competitors.

For more details go to http://www.oilendgame.org/pdfs/WtOEg_ExecSummary.pdf
11 December 2004 Third Saturday Seminar 04-05, Session 4

World Carbon Dioxide Emissions from the Consumption and Flaring of Fossil Fuels, 1980-2002



Scene from Exodus:

Ari (Hagannah) and his uncle (Irgun) argue about the effect the Irgun's terrorism will have on World Opinion

REBUILDING AMERICA'S DEFENSES

**Strategy, Forces and Resources
For a New Century**

*A Report of
The Project for the New American Century
September 2000*

<http://newamericancentury.org/RebuildingAmericasDefenses.pdf>

ESTABLISH FOUR CORE MISSIONS for U.S. military forces:

- **defend the American homeland;**
- **fight and decisively win multiple, simultaneous major theater wars;**
- **perform the “constabulary” duties associated with shaping the security environment in critical regions;**
- **transform U.S. forces to exploit the “revolution in military affairs;”**

To carry out these core missions, we need to provide sufficient force and budgetary allocations. In particular, the United States must:

MAINTAIN NUCLEAR STRATEGIC SUPERIORITY, basing the U.S. nuclear deterrent upon a global, nuclear net assessment that weighs the full range of current and emerging threats, not merely the U.S.-Russia balance.

RESTORE THE PERSONNEL STRENGTH of today’s force to roughly the levels anticipated in the “Base Force” outlined by the Bush Administration, an increase in active-duty strength from 1.4 million to 1.6 million.

REPOSITION U.S. FORCES to respond to 21st century strategic realities by shifting permanently-based forces to Southeast Europe and Southeast Asia, and by changing naval deployment patterns to reflect growing U.S. strategic concerns in East Asia.

	Cold War	21 st Century
Security system	Bipolar	Unipolar
Strategic goal	Contain Soviet Union	Preserve <i>Pax Americana</i>
Main military mission(s)	Deter Soviet expansionism	Secure and expand zones of democratic peace; deter rise of new great-power competitor; defend key regions; exploit transformation of war
Main military threat(s)	Potential global war across many theaters	Potential theater wars spread across globe
Focus of strategic competition	Europe	East Asia

Over the decade of the post-Cold-War period, however, almost everything has changed. The Cold War world was a bipolar world; the 21st century world is – for the moment, at least – decidedly unipolar, with America as the world’s “sole superpower.”

America’s strategic goal used to be containment of the Soviet Union; today the task is to preserve an international security environment conducive to American interests and ideals. 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 a new greatpower competitor; defend key regions of Europe, East Asia and the Middle East; and to preserve American preeminence through the coming transformation of war made possible by new technologies.**

From 1945 to 1990, U.S. forces prepared themselves for a single, global war that might be fought across many theaters; **in the new century, the prospect is for a variety of theater wars around the world, against separate and distinct adversaries pursuing separate and distinct goals.**

MODERNIZE CURRENT U.S. FORCES SELECTIVELY, proceeding with the F-22 program while increasing purchases of lift, electronic support and other aircraft; expanding submarine and surface combatant fleets; purchasing Comanche helicopters and medium-weight ground vehicles for the Army, and the V-22 Osprey “tilt-rotor” aircraft for the Marine Corps.

CANCEL “ROADBLOCK” PROGRAMS such as the Joint Strike Fighter, CVX aircraft carrier, and Crusader howitzer system that would absorb exorbitant amounts of Pentagon funding while providing limited improvements to current capabilities. Savings from these canceled programs should be used to spur the process of military transformation.

DEVELOP AND DEPLOY GLOBAL MISSILE DEFENSES to defend the American homeland and American allies, and to provide a secure basis for U.S. power projection around the world.

CONTROL THE NEW “INTERNATIONAL COMMONS” OF SPACE AND “CYBERSPACE,” and pave the way for the creation of a new military service – U.S. Space Forces – with the mission of space control.

EXPLOIT THE “REVOLUTION IN MILITARY AFFAIRS” to insure the long-term superiority of U.S. conventional forces. Establish a two-stage transformation process which

- maximizes the value of current weapons systems through the application of advanced technologies, and,
- produces more profound improvements in military capabilities, encourages competition between single services and joint-service experimentation efforts.

INCREASE DEFENSE SPENDING gradually to a minimum level of 3.5 to 3.8 percent of gross domestic product, adding \$15 billion to \$20 billion to total defense spending annually.

Four Essential Missions

ESTABLISH FOUR CORE MISSIONS for U.S. military forces:

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“Corruption robs countries of their potential,” said Eigen. “As the Corruption Perceptions Index 2004 shows, oil-rich Angola, Azerbaijan, Chad, Ecuador, Indonesia, Iran, Iraq, Kazakhstan, Libya, Nigeria, Russia, Sudan, Venezuela and Yemen all have extremely low scores. In these countries, public contracting in the oil sector is plagued by revenues vanishing into the pockets of western oil executives, middlemen and local officials.”

<http://www.transparency.org/cpi/2004/cpi2004.en.html#cpi2004>



The Political, Intellectual, and Strategic Roots
of the Current United States Defense Policy:
The Project for the New American Century

July 2004

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Another View

This report reviews the political, intellectual, and strategic roots of the current United States defense policy. Much of the defense policy implemented by the Bush administration was defined in a single report issued in 1998 by the Project for the New American Century (PNAC). This report was titled *Rebuilding America's Defenses*.

According to William Kristol, PNAC chairman, .The [members of the] Project for the New American Century, and many other people, [including] Wolfowitz way back in 1992, had articulated chunks and parts of what later became the .Bush Doctrine...4

www.nuclearpolicy.org/Documents/RootsofUSDefensePolicy.pdf

ALTERNATIVE ENERGY SOURCES

- [Solar](#)
- [Wind Power](#)
- [Geothermal](#)
- [Tides](#)
- [Hydroelectric](#)
- [reference page](#)

<http://www.cc.utah.edu/~ptt25660/tran.html>

Being the “Devils Advocate” ...

IF there are not enough resources to go around, do we have a moral or ethical dilemma?

(For instance if we have the military might, to do it, is it OK to deny others access to resources that we think we need and are becoming in short supply?)

Sounds terrible, but isn't that the way, the progenitors of the individuals that are alive today survived? And, were able to produce us?

What are the alternatives?

Some of the more palatable ways you can conserve ...

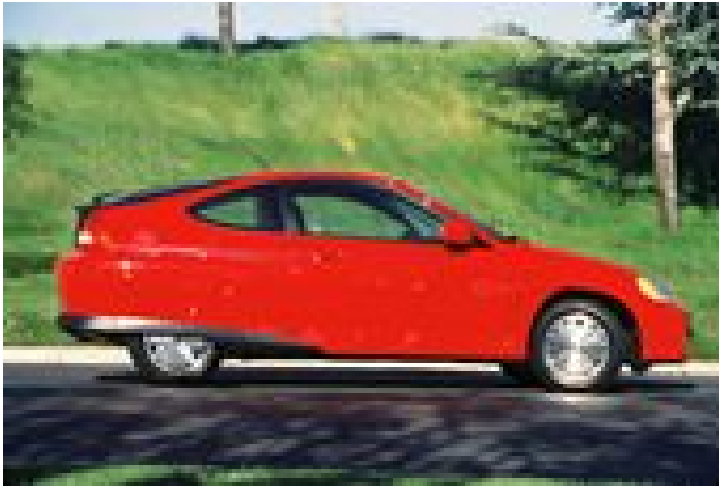


Photo of the 2005 Honda Insight in New Formula Red



Ford Escape



2006 Lexus Hybrid SUV- Lexus RX 400h

11 December 2004



2005 Toyota Prius in Seaside Pearl

Third Saturday Seminar 04-05, Session 4

Crude Oil Price (www.futuresource.com)



What do you suppose OPEC is now trying to do?

Gold Prices (www.futuresource.com)



US Dollar vs:

Euro



Canadian
Dollar



Japanese
Yen



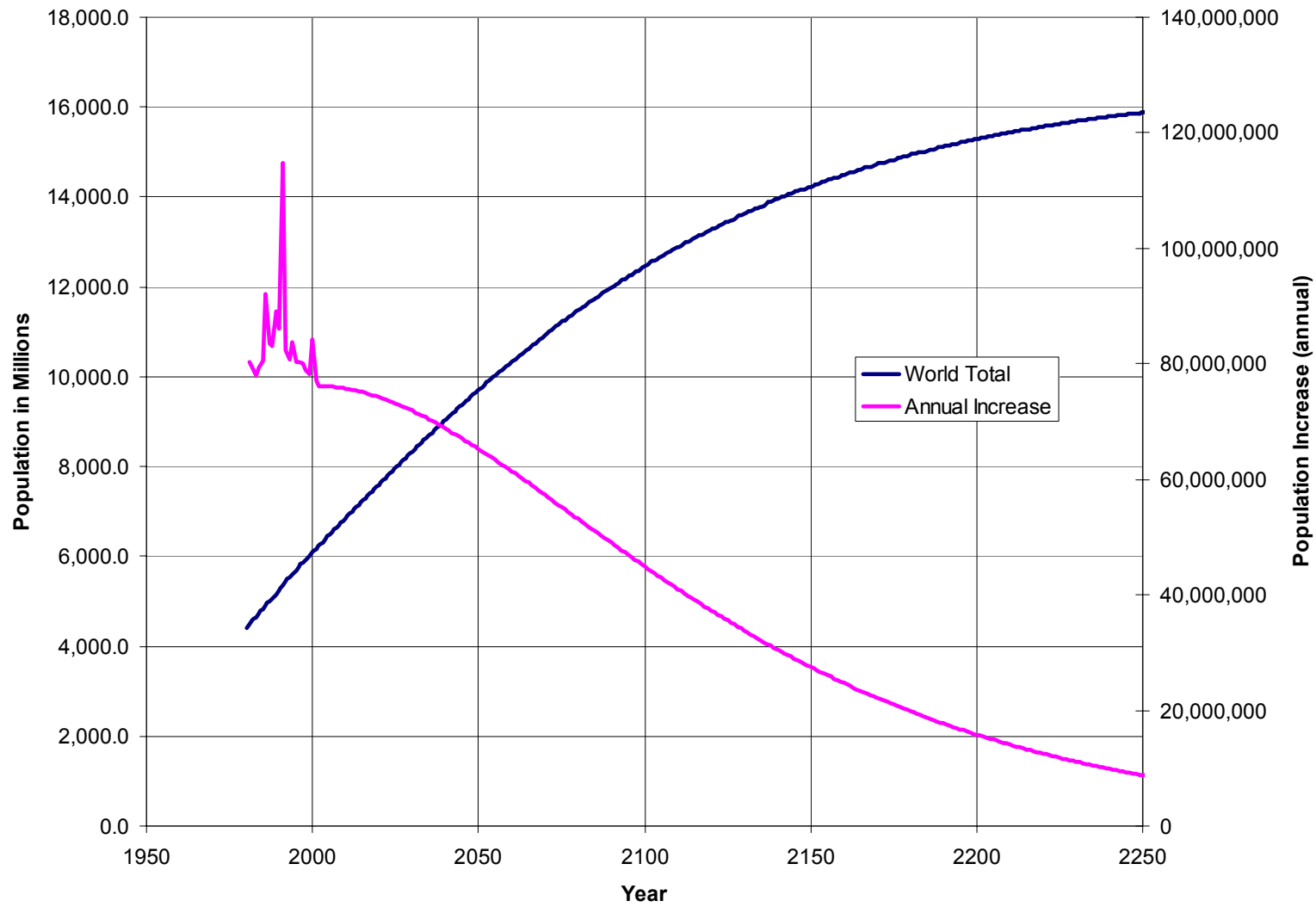
future**source**.com

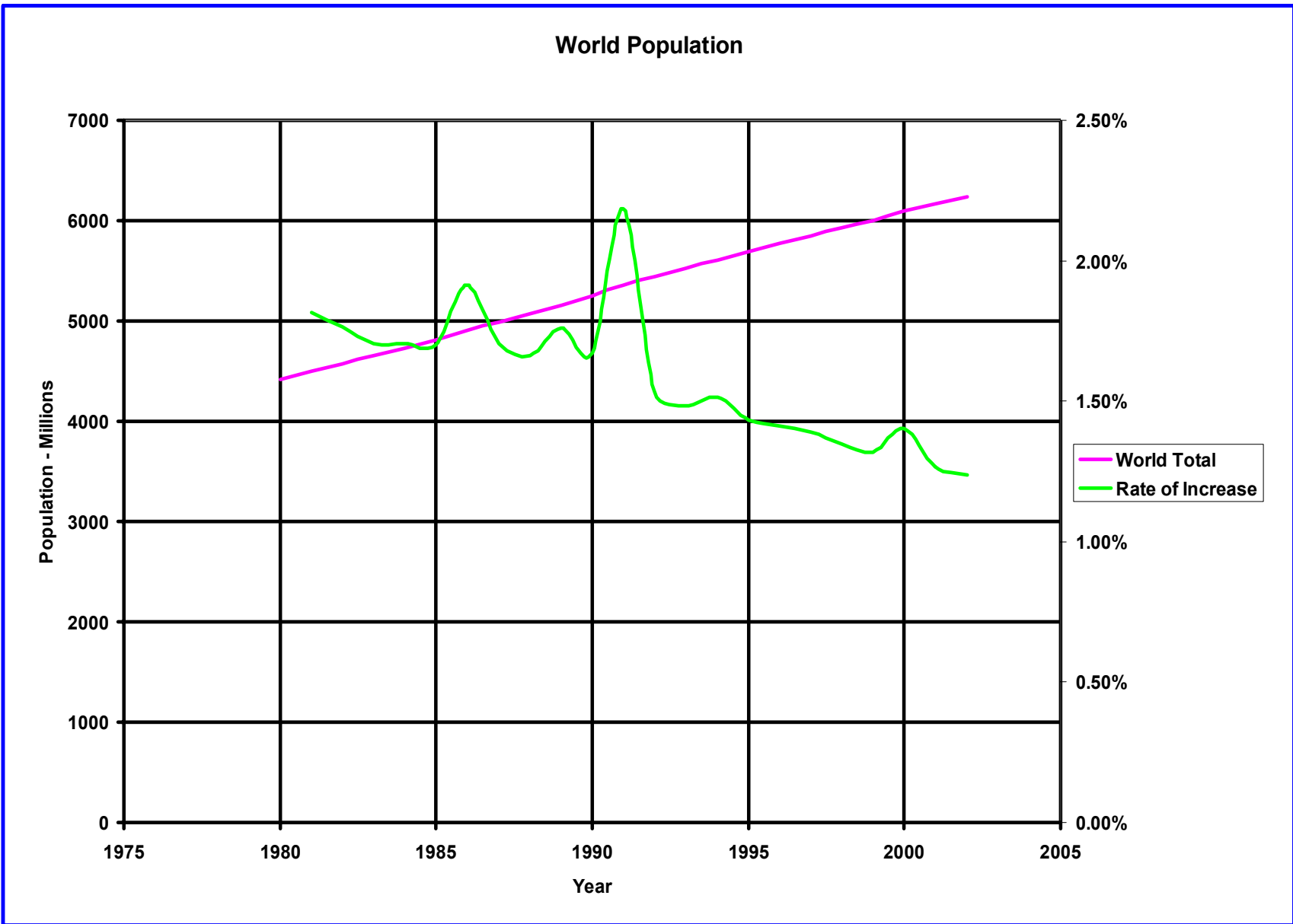
11 December 2004

11th Saturday Seminar 04-05, Session 4

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World Population if Annual Increase Reduces by 1.25% per year

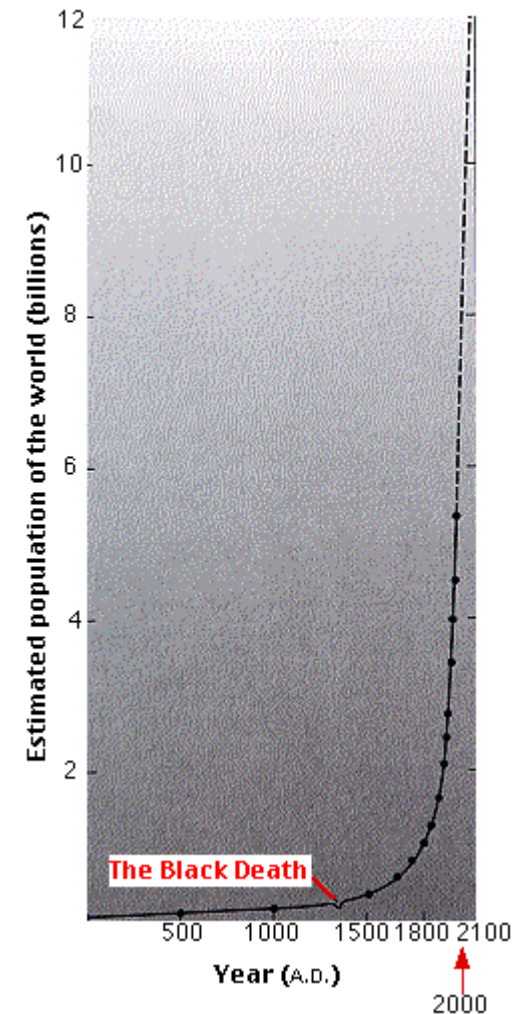




The Population of the World

The solid line in this graph shows estimates of the size of the world's population over the last two millenia. The estimates from 1800 to 1991 are based on more accurate data than those before. The dotted line shows what would happen if exponential growth continued to the year 2100.

As you can see, the world's population has been growing exponentially (except during the years of the [black death](#)). How long will it continue to do so? (Since the graph was drawn, the world's population has reached 6.4 billion; that is, in 2004 we are still on course.) But can it continue indefinitely? Surely not.



This and the next slide:

<http://users.rcn.com/~kimball.ma.ultranet/BiologyPages/P/Population.htm> The_Population_of_the_World

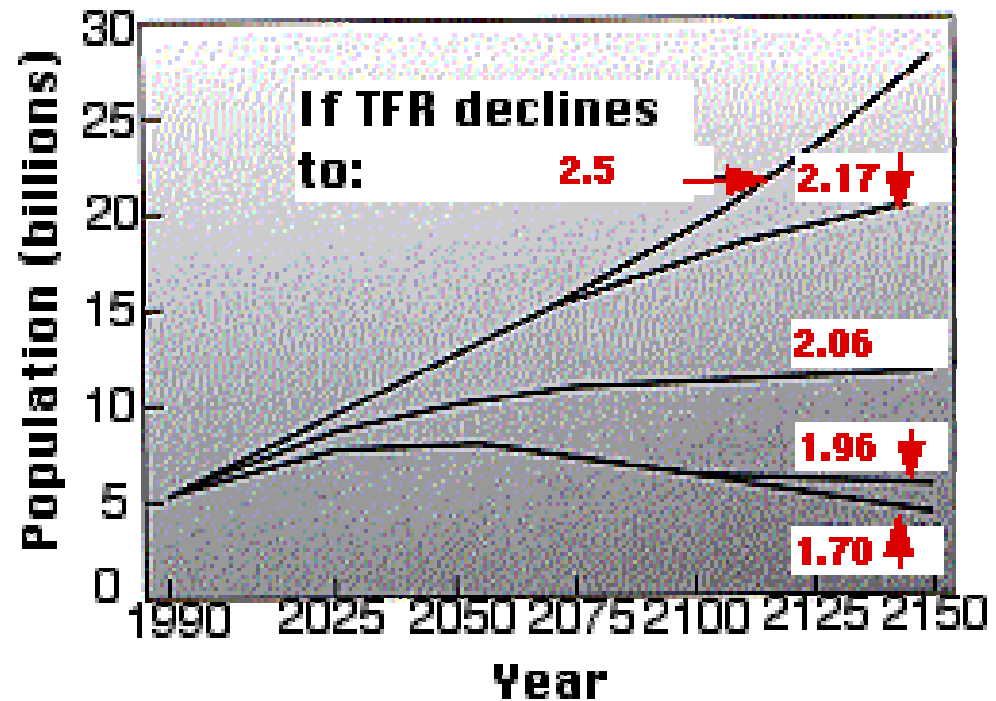
Predicting Future Population Size

With a 2004 rate of natural increase in Mexico of 2.1%, its population would be expected to double in 33 years ($0.69/0.021 = 32.9$) from its 106 million people now to some 212 million in 2037. Will it?

No one knows for certain. What actually happens to population growth depends on a number of factors. Some of these can be estimated with some confidence, some cannot.

Two that can are:

- the **age structure** of the population and
- the **total fertility rate (TFR)**.



This graph (based on data from the UN Long-Range World Population Projections, 1991) gives 5 estimates of the growth of the world population from now until 2150, assuming that TFRs decline from the 1991 value of 3.4 to the values shown.

- A value of 2.06 will produce a stable population of about 11.5 billion.
- A value 5% below that (1.96) will cause the population to drop back to close to its present value (6.1 billion) while
- a value of only 5% above (2.17) would produce a population of over 20 billion and still rising.

In a world of diminishing resources; Is there a dilemma?

If there are not enough resources to go around

What is the correct alternative?

Do we just deny the rest of the world access?

or

Do we share?

Does being a “Have” trump being a “Have Not”?

Earth's Atmosphere

The gases in the atmosphere, and their percentage of the whole atmosphere, are as follows:

nitrogen N₂ 78.084

oxygen O₂ 20.946

argon Ar 0.934

carbon dioxide CO₂ 0.035

water vapor H₂O variable

neon Ne 0.0012

helium He 0.0005

nitrous oxide NO₂ 0.0002

methane CH₄ 0.0002

xenon Xe 0.0002

But even at very low levels, the molecules of CO₂, H₂O, methane, and nitrous oxide play an important role in the history of the earth. These molecules continually absorb and re-emit the infrared radiation coming up from the surface.

Half of the emitted energy goes up - toward space - and half goes down - back toward the surface. The net effect is that these *greenhouse gases* trap infrared energy, keeping the atmosphere and the surface hotter than they would be if not for the atmosphere.

It is found that for many centuries before the industrial revolution, the percentage of CO₂ was 0.028%; it then increased rapidly to the current 0.035% during the last two centuries.

While surprising in its candor and tone, Thompson's remarks were emblematic of the distance he has sometimes maintained from the Bush White House, even as he was helping to accomplish one of its signature achievements — passage of the Medicare prescription drug law a year ago.

A popular four-term governor of Wisconsin, Thompson arrived in Washington four years ago with a record for innovative solutions on welfare and other issues.

Thompson was in the drugs from Canada and other countries. Americans pay the highest prices in the world for medicines. Thompson signaled recognition of the political force behind the drive for lower prices when he commented in May that importation from Canada spotlight on allowing the importation of lower-cost prescription was inevitable.

"I think it's coming," Thompson said, adding that he would recommend Bush not stand in the way of Canadian imports.

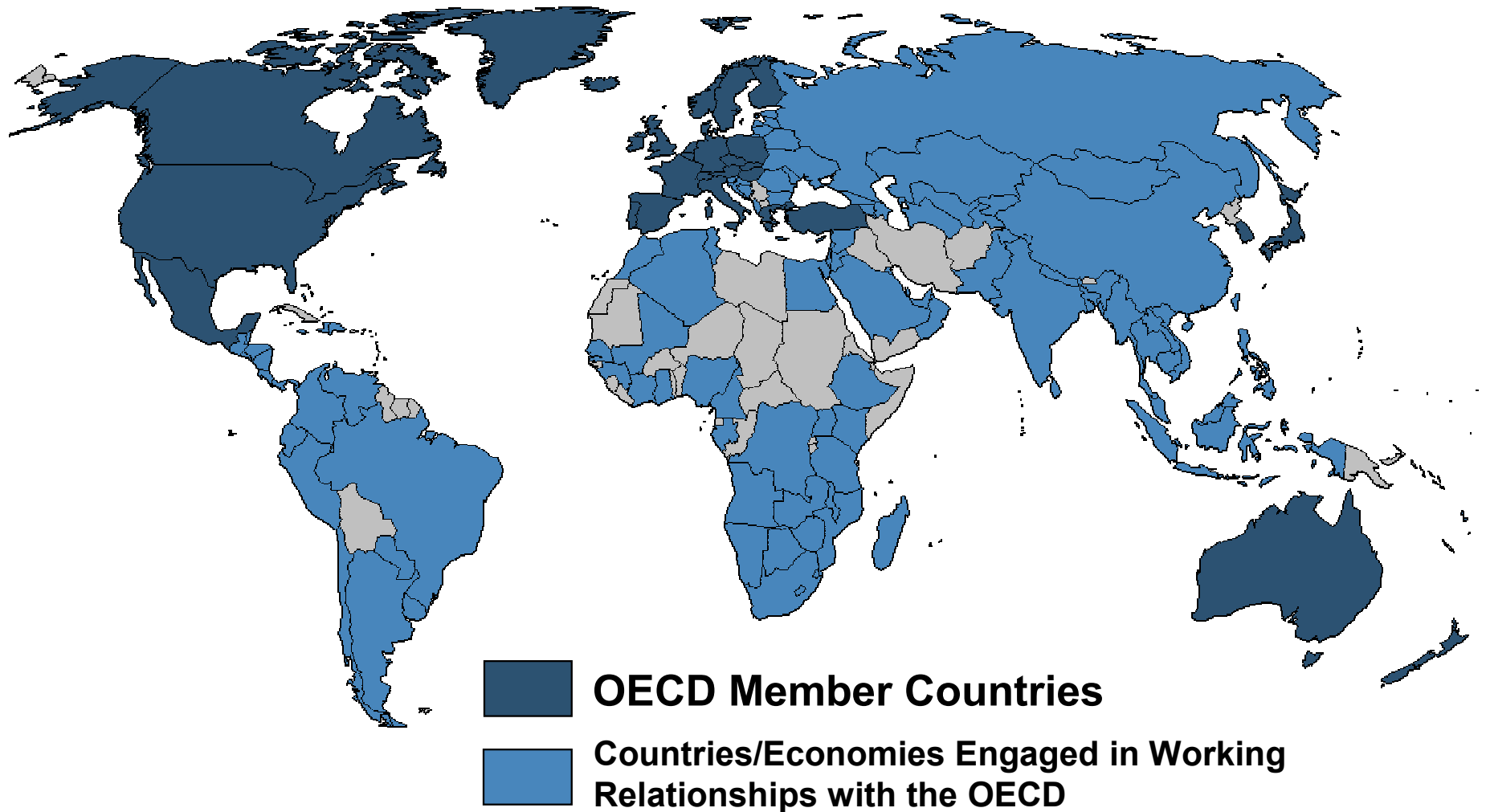


Thompson declares his independence

By William M.
Welch, USA
TODAY

http://www.usatoday.com/news/washington/2004-12-05-thompson-candor_x.htm

A global outreach



Next Time – January 22, 2005

Iran and the future of Iraq

Dr. Mehdi Noorbaksh



Mehdi Noorbaksh is an assistant professor at the Center for International Studies, University of St. Thomas. His educational background consists of:

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Ph.D., Government, University of Texas at Austin

M.A., Political Science, University of Houston

B.S., Electrical Engineering, University of Texas at Arlington

MBA/MHA, (in progress), University of Houston at Clear Lake

His areas of specialization are Comparative Politics and International Relations with emphasis on Globalization, Oil and Energy, Conflict and Conflict Resolution, and Middle Eastern Politics. His research interest is in democratization in the Muslim world, the politics of resurgent Islam and Islam, nationalism and the political dynamics of change in the Middle East. He is currently working on Iran, Iraq and Afghanistan with special attention to the politics of transformation and change in these three nations.

<http://www.eia.doe.gov/emeu/cabs/iran.pdf>

Matthew 25:31 When the Son of man shall come in his glory, and all the holy angels with him, then shall he sit upon the throne of his glory:

32 And before him shall be gathered all nations: and he shall separate them one from another, as a shepherd divideth [his] sheep from the goats:

33 And he shall set the sheep on his right hand, but the goats on the left.

34 Then shall the King say unto them on his right hand, Come, ye blessed of my Father, inherit the kingdom prepared for you from the foundation of the world:

35 For I was an hungered, and ye gave me meat: I was thirsty, and ye gave me drink: I was a stranger, and ye took me in:

36 Naked, and ye clothed me: I was sick, and ye visited me: I was in prison, and ye came unto me.

37 Then shall the righteous answer him, saying, Lord, when saw we thee an hungered, and fed [thee]? or thirsty, and gave [thee] drink?

38 When saw we thee a stranger, and took [thee] in? or naked, and clothed [thee]?

39 Or when saw we thee sick, or in prison, and came unto thee?

40 And the King shall answer and say unto them, Verily I say unto you, Inasmuch as ye have done [it] unto one of the least of these my brethren, ye have done [it] unto me.

41 Then shall he say also unto them on the left hand, Depart from me, ye cursed, into everlasting fire, prepared for the devil and his angels:

42 For I was an hungered, and ye gave me no meat: I was thirsty, and ye gave me no drink:

43 I was a stranger, and ye took me not in: naked, and ye clothed me not: sick, and in prison, and ye visited me not.

44 Then shall they also answer him, saying, Lord, when saw we thee an hungered, or athirst, or a stranger, or naked, or sick, or in prison, and did not minister unto thee?

45 Then shall he answer them, saying, Verily I say unto you, Inasmuch as ye did [it] not to one of the least of these, ye did [it] not to me.

46 And these shall go away into everlasting punishment: but the righteous into life eternal.