Week X    Thursday,   April 4
Herbert Hoover, the Globalization of American Corporate Capitalism & OIL

Herbert C. Hoover, 1874 - 1964

1) Biographical  2) Cultural/Historic  3) Global Ecological/OIL

1859, US, PA, Titusville, 1st OIL well

1861 - Civil War - 1865
1862, Pacific Railroad Act
1864, 2nd Pacific Railroad Act
1868, Burma - Chinese abandon Bawdwin silver mines
------, Japan - Meiji restoration- beginnings of modernization/globalization as in Germany, nationalism, militarization & imperialism, led to rapid, unregulated industrialization

1869 - U S Transcontinental Railroad completed
1869, Egypt - Suez Canal completed
1870, US, J. D. Rockefeller forms Standard OIL Co.
c 1870 - 1914 Global - 2nd Industrial revolution - electrification requires copper; chemical industries - need sulfuric acid
1872, US - 1st National Park created, Yellowstone
1873, Russia, Baku OIL field opened
------, “Ecology” enters vocabulary
1874, Switzerland - Universal Postal Union est. by 22 nations

1874, August 10, b., West Branch, Iowa - a Quaker community
   f. - Jesse, blacksmith & farm implement dealer
   m. - Hulda Minthorn Hoover, a teacher and Quaker minister
   b. - Theodore, born 1/28/1871

1875, France - International Bureau of Weights and Measures

1876   s. - May, born September 1
1876, WY Territory - Battle of the Little Big Horn
------, Philadelphia, PA - U S Centennial Celebration
1876-78, India - over 5 million die of famine in two years
1876-79, China Drought, millions die
1877, U S - Nationwide Railroad strike

1877, Europe, France - Louis Pasteur (1822-1895), germ theory of disease, vaccination, and pasteurization, great advances, public health

1880 father, Jesse, age 34, died of typhoid fever - water borne or other contamination

1882, U S bans Chinese immigration for 10 years

-------, Egypt - occupied by Great Britain

1882, US, Edison demonstrates electricity

-------, US, Standard OIL Trust formed

1883 mother, Hulda, died of pneumonia at age 34

children separated - Hoover to farm of paternal uncle, new West Branch

1883, NYC, Brooklyn Bridge opened

-------, Chicago - Home Insurance Building - 1st skyscraper

1883, Dutch West Indies, Krakatoa - cataclysmic volcano, = 10,000 Hiroshima atomic bombs

120 ft. high tsunami, 36,000 killed

1884 Newberg, OR - with maternal uncle, Dr. Henry J. Minthorn

enrolled at Friends' Pacific Academy, a Quaker school which Dr. Minthorn helped to found and conduct

1884, London, Maxim invents 1st machine gun

-------, Belgium, Brussels, Leopold II proclaims “Congo Free State”

-------, Canada - Canadian Pacific Railway completed

1885, Berlin, Congress of - 15 European nations, partition Africa - confirm Leopold’s right to 900,000 sq. mi. Congo Free State

-------, Germany, Mannheim, K. Benz develops successful horseless carriage - powered by internal combustion gasoline engine

-------, India, British begin Indus Basin - India & Pakistan - world’s largest irrigation system

-------, France, Pasteur inoculates child against rabies

-------, Sumatra, OIL discovered by Royal Dutch

-------, Italy, Po River Valley - 1st hydroelectric plant

1886, NYC, Statue of Liberty dedicated

-------, U S - 100,000 strike nationwide for 8 hour day

-------, Chicago, 13 killed in labor strike

-------, AZ, Apache leader Geronimo surrenders
<table>
<thead>
<tr>
<th>Year</th>
<th>Event</th>
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<tbody>
<tr>
<td>1886</td>
<td>Germany, K. Benz patents 1st motor car</td>
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<td>-----, Canada, Transcontinental Canadian Pacific Railroad, completed</td>
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<td>1886</td>
<td>-----, British conquer Burma, govern it as a province of India</td>
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<td>1887</td>
<td>South Africa, Kimberley, Cecil Rhodes consolidates control of diamond mines</td>
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<td>1888</td>
<td>Salem, OR - with Minthorn family; clerk in a land settlement business founded by Dr. Minthorn and other Quakers</td>
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<td>1888</td>
<td>Brazil, slavery abolished</td>
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<td>-----, China, 1st railroad opened, Tangshan to Tianjin</td>
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<td>1889</td>
<td>W, DC- 1st International Conference of American States</td>
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<td>-----, US, OK - Land Rush</td>
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<td>1889</td>
<td>France, de Lessups’ effort to build a Panama canal collapses</td>
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<td>-----, -----, G. Eiffel competes tower</td>
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<td>1890</td>
<td>American Tobacco Co. formed by John Duke</td>
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<td>1890</td>
<td>Scotland, 1,700’ Firth of Forth Bridge completed, world’s longest</td>
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<td>-----, Global - beginnings of world electrification</td>
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<td>1891</td>
<td>CA, Palo Alto, Stanford University founded</td>
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<td>1891</td>
<td>Palo Alto, CA - enrolled in Stanford University</td>
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<td>1891, Montana, Butte - Anaconda Mining Co. incorporated with $12.5 million in stock</td>
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<td>1892</td>
<td>summer, served on the Arkansas State Geological Survey</td>
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<td>1892</td>
<td>NYC, Ellis Island Immigration center opened</td>
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<td>-----, Riis, J., How The Other Half Lives exposes poverty in NYC</td>
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<td>-----, ID, Federal troops break up miner’s strike</td>
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<tr>
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<td>-----, Pittsburgh, PA - Pinkerton agents break strike at Carnegie’s Homestead Steel Works</td>
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<td>1893</td>
<td>summer, served on the U S Geological Survey team in CA</td>
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<td>1893</td>
<td>J. J. Hill’s Great Northern Railway completed, St. Paul, MN</td>
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<td>- Everett, WA</td>
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<td>-----, NYC, Financial Panic</td>
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<td>1893</td>
<td>Europe/US - vaccines against tetanus, diphtheria, etc. coming into wider use</td>
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1894 summer, served on the U.S. Geological Survey team in NV

1894, Chicago, Pullman Strike shuts down nation’s railroads

1895 graduated Stanford University, B.A. - Geology; the first 4 year graduating class

1895 - Japan defeats China, imposes harsh terms

- Korea, a Japanese colony

----- summer, Nevada City, CA - Reward Mine, as a cart operator and driller

1896 employed as a mining engineer by Louis Janin, San Francisco, CA

worked on mine surveys in CA, CO & NM

1896, India - famine & bubonic plague rage, 4 years

-----, U.S., Henry Ford builds 1st car

1897 employed by Bewick, Moreing & Co. Ltd., London, England

Western Australia, managed “Sons of Gwalia” gold mine; owned a partial share

66 years later, in 1963, mine closed;

$55,000,000 in gold, $10,000,000 in dividends

1898 - Spanish American War

U.S. Army creates demand for food crops

1898, China - Yellow River floods, drought

contributes to Boxer Rebellion

-----, Italy, Po River Valley

- 1st large hydroelectric dam

1899 Monterey, CA - married Lou Henry, born 29 March 1875, Waterloo, IA

father, a banker; met Hoover at Stanford,

graduated 1898, degree in geology

----- honeymoon on four week voyage to China,

Hoover employed by Chinese government to oversee natural resource development

attempts to secure Kaiping coal fields - one of world’s richest -

for Bewick, Moreing & Co.

1899, Philippine Insurrection v U.S.

-----, U.S. - declares “Open Door” policy re China

1900 China, Boxer Rebellion -

Hoover organized defense of foreign compound in Tientsin; directed relief work

1900 U.S. Steel Co. incorporated at $1.4 billion
1) Biographical

2) Cultural/Historic

3) Global Ecological Oil

1900, Global Coal production, 700,000,000 tons - 1,000,000,000 tons
-----, Global - coal consumption caused most air pollution
-----, Europe, Polish Silesian Triangle - Dresden, Prague Krakow - 2nd industrial site to the German Ruhr

1901, made a partner in Bewick, Moreing & Co.; 20% interest; London, principal residence
Bewick, Moreing & Co. comes to control over 50% of West Australia gold mining

1901 - 1st Transatlantic wireless

1901, US, TX, Spindletop Oil gusher - the beginnings of Sun, Texaco & Gulf

1902 - Texaco - Texas Oil Co. founded
-----, US Bureau of Reclamation established
1902, Egypt - 1st Aswan Dam completed

1902-04, US, Ida Tarbell, History of Standard Oil Company

1903, son, Herbert Clark, Jr. born, London

1903, Panama, independence from Columbia recognized by US

----, NC, Wright Brothers 1st successful flight

1904, Trans-Siberian Railroad completed

1905, Russo-Japanese War, Russians defeat Japanese among 1st to vaccinate troops
1st war in which battle deaths outnumber disease deaths

-----, Russia, Revolution, Baku Oil fields fired

-----, London - 'smog' 1st coined = fog + smoke

1906, CA, San Francisco earthquake

1907, son, Allan Henry, born, London

successfully founded a zinc mining operation in Eastern Australia
annual income approx. $100,000 - 95% as a financial advisor
inspected Burma’s abandoned Bawdwin silver mine; contracted malaria
comes to own 15% interest in lead smelting operation
1) Biographical  
1908 resigned from Bewick, Moreing & C., Ltd
founded a global mining finance and exploration firm - offices in London, NYC & San Francisco; later opened offices in Petrograd/Leningrad and Paris
1908, Detroit - Ford produces 1st Model T
1907, China - millions starving due to heavy rain and crop failures
------, Russia - 20 million starving in worst famine on record
------, US, St. Louis, 1st Gasoline station

2) Cultural/Historic  
1907-1908, Russia - 20 million starving in worst famine on record
1908, Detroit - Ford produces 1st Model T
1908, Russians open oil field in southern Caucasus mountains
------, Persia, OIL discovered
------, US, world’s 1st billionaire, John D. Rockefeller, Standard Oil Company

3) Global Ecological Oil  
1909 Principles of Mining - a standard text for years; remained in print until 1967
1910 Russia - reorganizes Kyshtim estate’s iron and steel production
Forms Maikop & General Petroleum Trust - a Russian oil resource holding company
Invests in California oil ventures
1909 "De Re Metallica" with Lou Henry Hoover - 1st successful translation of G. Agricola’s 1556 treatise on metallurgy & mining in the Erzgebirge district, Germany
invested in Russian copper smelting, gold & zinc mining
elected to Stanford University board of trustees
1910, Mexican Revolution begins
1911, US, Supreme Court orders breakup of Standard OIL Trust
------, US, 1st high dam, the Roosevelt, on the Snake River, a tributary of the Colorado

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1912, Titanic sinks, 1,500 missing
1) Biographical  2) Cultural/Historic  3) Global Ecological OIL

1913, U S - XVI Amendment - Income Tax ratified

------, ---- - XVII Amendment - Direct election of senators ratified
------, US - Detroit, Ford Motor Co. unveils moving assembly line
Fordism & the automobile will become the most socially and
environmentally consequential technology of the 20th century
------, ---- - NYC, Grand Central Station - world’s largest - opens
------, Panama -Canal Opened

1914 - World War I - 1918  “The Allies floated to victory on a wave of oil”

1914  estimated wealth, $4,000,000 – global investments
------, CA - reorganizes finances of Sloss & Lilienthal families
London - became co-manager of the Natomas Syndicate; Sacramento area gold dredging
and land development company
  - director of 18 mining & financial companies, 100,000 + employees, global
London, Chairman, Allied Relief Committee; assisted 120,000 Americans returning to
US
London, Chairman, Commission for Relief in Belgium; assisting 10,000,000 Belgians
and French, invaded by German Army; $1 billion in imports
1914, Mexico, Vera Cruz - U S troops land, oppose President Huerta
1914, Japan - 9 million reported starving
------, Italy, Po River Valley - government funded
irrigation & fertilizer programs

1915  San Francisco - Pan Pacific International Exposition; enlisted as a lobbyist in 1912
1914, Mexico, Vera Cruz - U S troops land, oppose President Huerta
1914 Japan - 9 million reported starving

1916, Russia- 9441 km/5867 mile Trans-Siberian Railroad completed

1917 U S in WWI - 1918
Battlefield mechanized - tanks, trucks, airplanes

1917  Hoover turns over relief operations to neutral, Spain and Holland; returns to U S
------  Food Administrator - control production, waste and prices of American food
1917 - Russia, Bolshevik Revolution - 1922
  Marxist/Leninist Communism - aspired to become the
dominant cultural value of the 20th century
1918 Grain Corporation of Food Administration begins buying, storing, selling and fixing price of wheat; prohibits use of food products in manufacturing distilled beverages

----- Requests voluntary wheatless Mondays and Wednesdays, meatless Tuesdays, porkless Thursdays and Saturdays

----- Sugar Equalization Board, Food Administration, rations sugar, 2 #s a month per person

----- Paris, headquarters for postwar European relief

1918, Russia, Vladivostok - U S, British and Japanese troops land
1918 - WWI dead =10,000,000
1918 -19, Global - Flu epidemic kills 20,000,000

1919 Director General, American Relief Administration
23,000,000 tons of food to Allies and famine areas in Europe
23 European nations, population 300 million; $100,000,000 in relief aid

----- transferred public American Relief Administration to a private organization to continue European relief efforts ;----- residence and offices in NYC

----- Stanford University speech in support of League of Nations

----- Washington, DC, chaired a committee studying labor/management conflicts

1919 Treaty of Versailles ends WWI ; League of Nations created
1919 US July 7-September 6, W,DC -SF, CA
Cross Country Convoy - no roads
Eisenhower began thinking of highways

1920 name placed in nomination for president, Republican Convention, Chicago
Warren G. Harding, President; Calvin Coolidge, VP

----- Chairman, European Relief Council - coordinating efforts of American Red Cross, Friends Service Committee, Knights of Columbus, Jewish Distribution Committee, etc.
a strong supporter of the League of Nations

----- President, American Engineering Council

1920, US 25% of farmland devoted to animal feed; 50% of population in farm labor

1921 residence, Washington, DC

----- rejected offer of partnership in Guggenheim, American Smelting and Refining Co.
- the world’s largest mining and metallurgical firm

----- Secretary of Commerce, by President Harding

----- Chairman, Unemployment Conference - 3.5 million unemployed
1) Biographical
2) Cultural/Historic
3) Global Ecological OIL

1921-23, Ukraine and Volga River Valley, Russia -

Civil war & drought lead to famine

- 7 million + dead

------, US, CA, Signal Hill, Alimitos #1 OIL well

------, Mexico, Tampico - 58 OIL companies; 16 refineries - 100,000 population

bonanza collapsed, wells filled with sea water; reverted to jungle scrub

1922 1st national radio conference - to regulate broadcasting

1922 Italy - Mussolini, Dictator
- imperial power rested on Alpine hydropower

-----, Union of Soviet Socialist Republics - USSR - created

1922 Colombia, Lake Maracaibo,
La Rosa OIL Field opened

-----, Venezuela, OIL discovered

1923 Honored by USSR as Chairman, American Relief Administration for assistance in 1921-1923 famine

August, President Harding dies, San Francisco, Calvin Coolidge, President

1923, US, Ku Klux Klan claims one million members

-----, Turkey, nationhood, collapse of the Ottoman Empire

1924 appointed by President Coolidge, Chairman, American St. Lawrence Commission
to cooperate with Canada in developing St. Lawrence and Great Lakes Systems

-----, Chairman, Colorado River Commission

1924 National Origins Act - peak KKK membership

1924, US, Teapot Dome OIL Scandal erupts

1925 recommends that CA and the US develop the Sacramento and San Joaquin Rivers

1925 China - 3 million die in famine

1925, Hitler publishes Mein Kampf

1926 Congress enacts his recommendation to create a Bureau of Civil Aviation

----- recommends that WA and the US develop the Columbia River Basin

1926 US, OK, Seminole OIL Field opened

-----, CA, San Luis Obispo, 1st Mo-tel

-----, Japan - rice farmers protest heavy metal deposits in rice paddies
1927 1st long distance television;
   he was seen and heard by a group in Bell Telephone Laboratories, NYC
----- Chairman, 1st International Radio Conference, W, DC- attended by 76 nations
----- Chair, Mississippi Flood Relief; property loss of $300 million
   recommended completely revising Federal flood control program
1927, U S Mississippi River Flood - 170 counties,
   killed several hundred people, formed a shallow lake 160 km/99 miles wide
   Mississippi River Basin covers 41% of Lower 48 States
1927 - China - Mao Zedong leads Red army in ‘Long March’ to mountain retreat
----- OIL, Iraq, Baba Gurgur #1, 1st OIL well
1927 Charles Lindbergh - Solo flight of Atlantic - NY to Paris
1928 nominated for President by Republican party
----- West Branch, IA - speech on farm relief and inland waterway development
----- November, elected President, carrying 40 states to Democrat, Al Smith’s 8
----- Good will tour of Latin America
   1928 U S Drought in western states begins
1929, October - Stock market crash – Great Depression
   Federal Farm Board
1930, Russia - Stalin collectivizes farms
1930 China - 2 million die of starvation
----- US, East TX, Rusk County
   Black Giant OIL field opened
1931, Austria, Creditanstalt, central bank fails - European/Global Depression
   1931 Manchuria - Japan invades
1932 Reconstruction Finance Corporation created to finance public works projects,
   built by private industry; vetoed creation of a federal unemployment agency
   opposed federal public works
1932 Defeated by Franklin D. Roosevelt
   Manufacturing 54% of 1929 levels
   Unemployment, 25-30% - 12,000,000 - 15,000,000 unemployed
1932, Germany - 25% unemployed, 6,000,000 unemployed
  1932, Global, value of world trade ½ of 1929
  ------, Bahrain, OIL discovered
  ------, Japan, Osaka - 35,000 smokestacks;
  airplanes crash due to reduced visibility
1933  U S - Dust Bowl in western states as top soil blown off;
  darkens the sky in eastern states, residue carried to Europe
  ------  U S, Tennessee Valley Authority, created, ultimately builds over
  50 dams, some hydroelectric, + coal & nuclear power plants
1933, Chancellor Adolf Hitler inaugurates works programs
  1933, Saudi Arabia, Socal major OIL concession
  1935, China - Mao Zedong’s Communist remnant
  army ends ‘Long March’ in northwest China
1935, U S - Hoover/Boulder Dam, Colorado River - dedicated. 1st giant
  multipurpose dam in the world; impounds Lake Mead, which
  extends for 115 miles (185 km); generates 1,345 megawatts of
  electricity - supplying power & water to Las Vegas
  ------, Ethiopia, invaded by Italy
  1936, Rhineland, Hitler remilitarizes; prepares for
  war, launches major synthetic fuel program
  1937, British grant Burma, constitution and self-
  government
  ------, China, Japan invades
1938, Germany recovers from Great Depression
  1938, Mexico nationalizes OIL industry - most
  owned by U S or G B companies
  ------, Kuwait & Saudi Arabia, OIL discovered

1939 - World War II - 1945
1939  15% of U S workforce unemployed
1941- U S in WWII - 1945
  -- war allows North Atlantic fisheries to replenish
1) Biographical	2) Cultural/Historic	3) Global Ecological OIL

1941, U S-G B create Atlantic Charter
------, Lebanon proclaimed independence from France
1941, U S, WA- Columbia River Grand Coulee Dam completed; destroyed the most productive salmon fishery in the world
1942, US, IL, Chicago, Manhattan Project - 1st sustained nuclear reaction

Beginning of the Atomic Age
1943, US, WA, Pasco on Columbia River - 1,000 square mile Hanford Engineering Works - large scale nuclear production reactors; built the atomic bomb dropped on Nagasaki; dumped billions of gallons of nuclear waste into the Columbia River

c 1943 to c 1990 - Cold War between US/Allies & USSR/China
1944, U S - World Bank & International Monetary Fund founded
1944, Lebanon, power transferred from French
1945 U S, two atomic bombs on Japanese civilians
1945, Dutch West Indies, Republic of Indonesia declared
1946, London - United Nations 1st session
------, Vietnam - Vietnamese begin war for independence v French
------, US, MO, Fulton - Churchill’s Iron Curtain Speech
1946-1948, USSR spreads Soviet-style pollution intensive industrialism to Poland, Czechoslovakia, East Germany & Hungary

1947-1949, Chair, Federal Commission to eliminate waste lead to creation of the General Services Administration, 1949
1947 Marshall Plan to revive Europe announced
------ National Security Act
1947, India and Pakistan independence
1948, Burma, Ind. - new nation Myanmar
------, Israel created
------, Persian Gulf, OIL fields opened
------, United Nations create World Health Organization
1949 U S organizes North Atlantic Treaty Organization - NATO
------ National Security Act
1949, China - People’s Republic established
1950 - Korean War - 1953

1950, Vietnam, President Truman sends 35 military advisors to aid French beginning of Vietnam War, to 1975

1950 - 1954, Joseph McCarthy, Red Scare

1950-1955, Chainsaws revolutionized logging and pulping in North America

1950-1970, Global, estimated 20,000,000-30,000,000 people killed from air pollution

1950-1973, Europe, Germany - *Wirtschaftswunder* economic recovery
- Rhine River further polluted - sewage, detergents & fertilizers

1950, Global Population, 2.557 billion;
19% increase since 1940

------, Global Tropics - population growth, land clearing

------, Japan, begins coal-based re-industrialization

------, India, Calcutta - population, 5,000,000

------, USSR, Aral Sea - world’s 4th largest lake

------, China, successful communist revolution leads to improved public health service

------, US 50+% of corn, hybrid

------, Norway’s dominance of modern whaling, superseded by Japan; factory ships, airplanes, sonar

------, Africa, Lake Victoria - Nile perch - 7 ft long/300 # weight - introduced eliminated over ½ fish in lake; supported export industry to Israel

------, Global - OIL becomes the single most important factor in shaping environmental history

------, South and Central American rain forests become cattle ranches to supply US beef
1951, U S detonates H-bomb
1952, Egypt, Nasser seizes power/British out
1953, Chair, Federal Commission to eliminate inefficiency in government
lead to creation of Department of Health, Education and Welfare, 1953
1953, London, DNA shown as double helix
1954, Vietnam, Geneva Accords; French withdraw; North and South
Vietnam created; elections promised but never held due to U S
resistance
1956, U S - National Highway Defense Act
------, Egypt, Nasser nationalizes Suez Canal
Israeli/British/French force attempts to
regain. UN forces invaders out
------, Niger, OIL discovered
1957 U S - smoking shown to promote cancer
------, Europe, European Economic Community est.
------, Russia, Sputnik launched, beginning of
USSR-US space race
1958, Lebanon, civil war - Marionite Christians, Sunni & Shi ite Muslims
US sends troops to restore order
1959 U S-Canada, St. Lawrence Seaway opened
1959, China, famine kills 25 million -30 million
c 1960, Africa - Acquired Immune Deficiency
Syndrome, AIDS 1st jumped from
chimpanzees to human hosts
1960, Global Population, 3.039 billion
22% increase since 1950
------, US, OH, Cleveland - Cuyahoga River
so polluted it frequently catches fire
1961, Berlin - Communists build wall
1962,US, Rachel Carson, Silent Spring
1) Biographical

2) Cultural/Historic

3) Global Ecological

1963, W,DC - March On, 200,000 - MLK, Jr. ‘I have a dream’
-------, W, DC-Moscow, hot-line phone link, avert war
-------, TX, Dallas, President Kennedy shot and killed
        Lyndon B. Johnson becomes President
-------, Betty Friedan, The Feminine Mystique
        1963, US - 1st human heart transplant
-------, Italy, Pope John XXIII dies
-------, Vietnam, 15,000 US military advisers

1964, October 2, d., NYC
1964, MI, 3 civil rights workers- Schwerner, Goodman, Cheney- murdered
        7 convicted by Federal jury
-------, US, Congress passes Tonkin Gulf Resolution
-------, US, Beatles appear on ‘The Ed Sullivan Show’
        1964, US - Glen Canyon Dam, Colorado River,
             dedicated; no significant new projects
             followed due to environmental protests
-------, US, Colorado River controlled by 19 dams;
             irrigated 12,550 sq.km/4,845 sq. m =
             Connecticut or Lebanon;
             15,000,000 people depended on its water
-------, South Africa - Nelson Mandela sentenced to
             life imprison for treason
-------, USSR, 1st 3 man space craft returns
-------, China, explodes 1st atomic bomb
-------, Germany - requires biodegradable detergents
1965, USSR bans leaded gasoline

Readings:
Herbert Hoover, 1874-1964: chronology-documents-bibliographical aids,
    edited by Arnold S. Rice, 1971
Lyons, E., Herbert Hoover: a biography, 1964
McNeill, J. R., Something New Under the Sun: an environmental history of the twentieth-
    century world, 2000
Yergin, D., The Prize: the epic quest for oil, money & power, 1990