

# World History since 1500



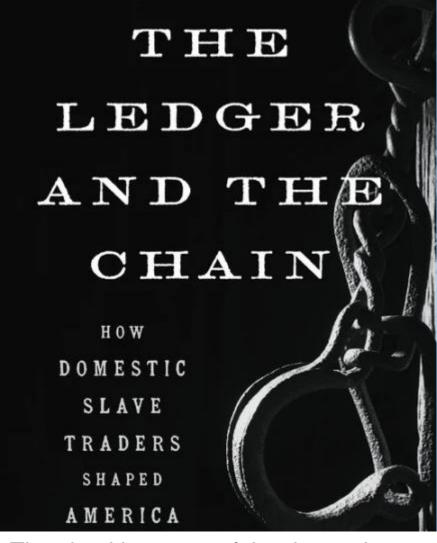
Wayne E. Sirmon
HI 104 – World History



February 23
(Thursday 7:00 pm)
UM Campus
College Woods Center

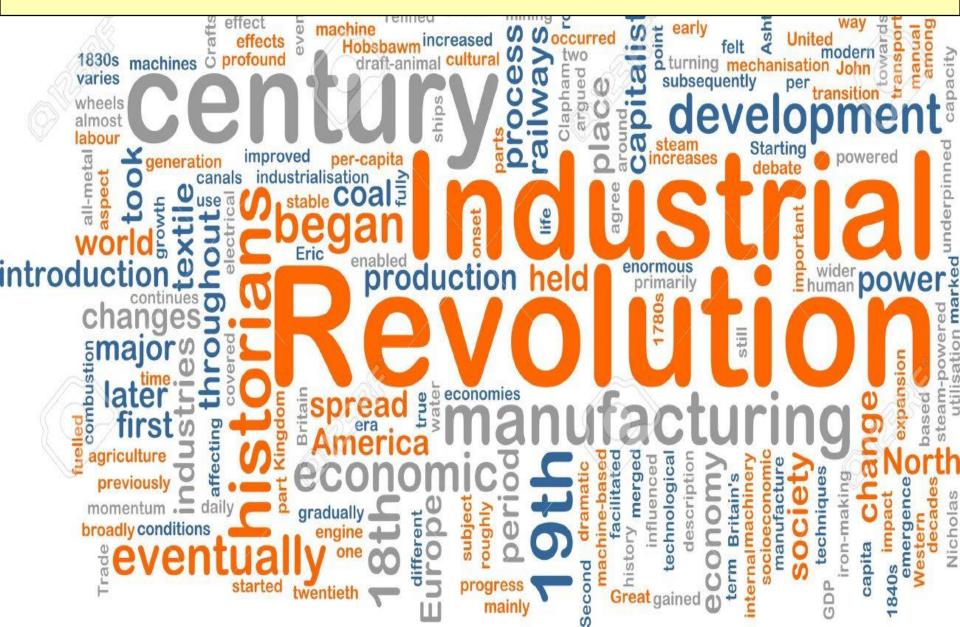


Joshua D. Rothman, PhD. Chairman, History Department University of Alabama

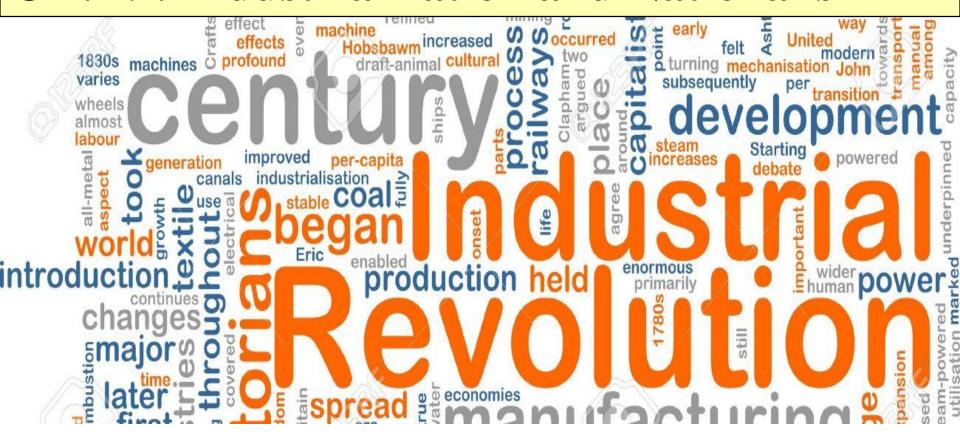


The shocking story of the domestic slave trade. Far from social outcasts, they were rich and widely respected businessmen, and their company sat at the center of capital flows connecting southern fields to northeastern banks.

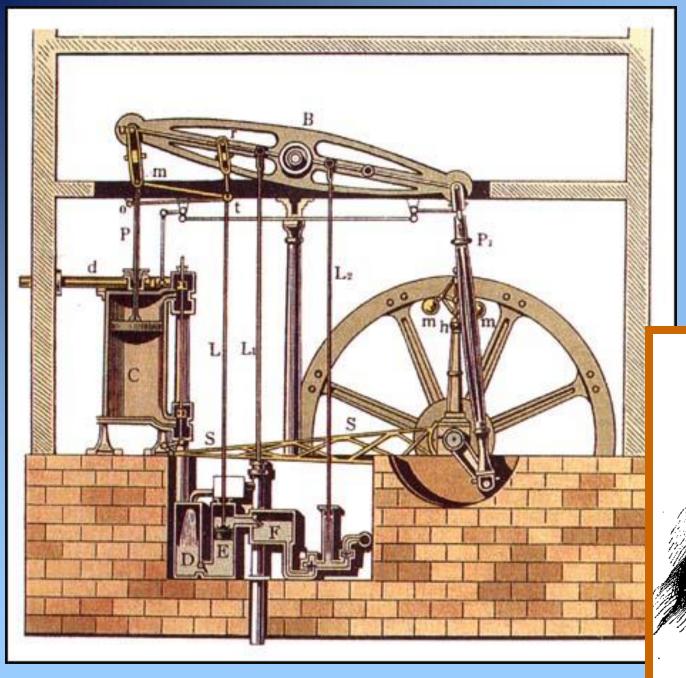
#### CH. 19: Industrialization and Nationalism

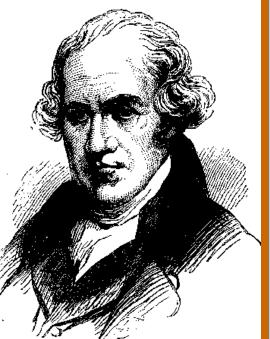


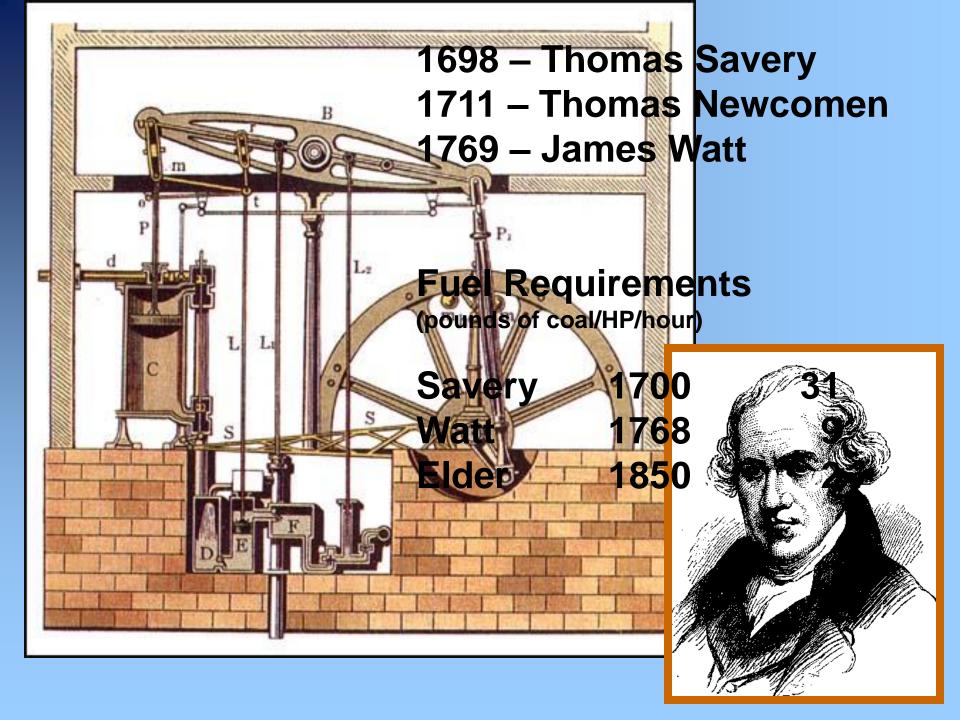
#### CH. 19: Industrialization and Nationalism



The key(s) to the Industrial Revolution?







**British Coal and Iron** 

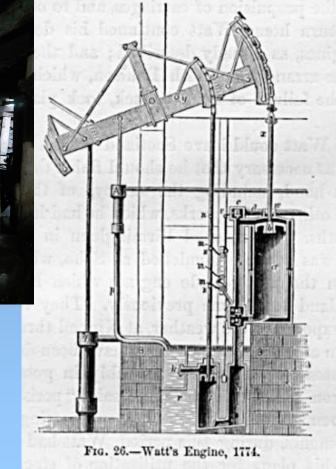




Coal veins below water table

Steam driven water pump (Savery - 1698)

James Watt - more efficient engine



## Industrial Revolution

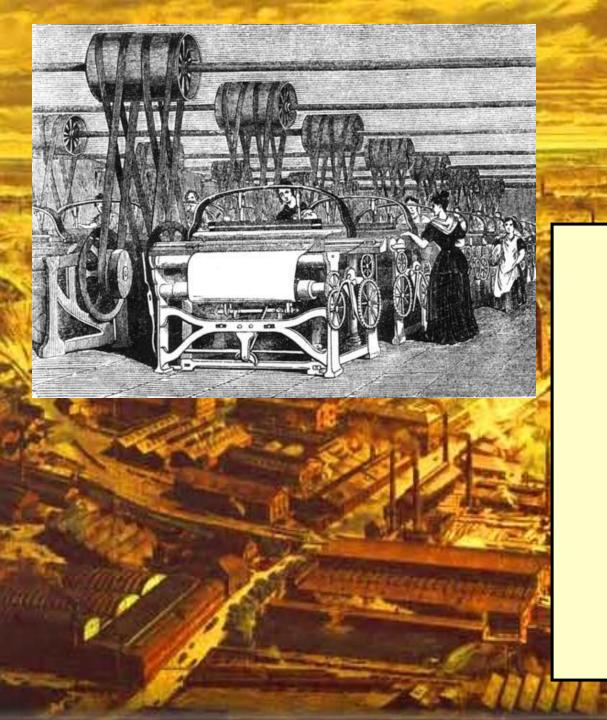
Changing the Way the World Does Business

Metric System .....Standardization

Telegraph ...... Communication

Steam Power ..... Location

Public Health ..... Application of Knowledge



# Cotton Imports to England

(million pounds)

1781 - 6.0

1785 - 18.4

1790 - 31.4

## The Factory & Factory Life

#### Inventions of the Industrial Revolution

Britain's textile industry would be the first to be transformed.
Traditionally, <u>human</u> and <u>animal</u> labor were used to do work.



1733 – John Kay – "Flying Shuttle"

A shuttle sped back and forth on wheels. The flying shuttle, a boat-shaped piece of wood to which yarn was attached, doubled the work a weaver could do in a day.



1764 – James Hargreaves – "Spinning Jenny"

A spinning wheel used to weave yarn. It allowed a spinner to work 8 threads at a time.

## The Factory & Factory Life

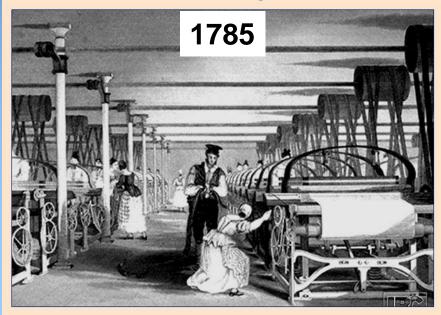
## Richard Arkwright 1769 "Water Frame"

Spinning machine - makes cotton yarn



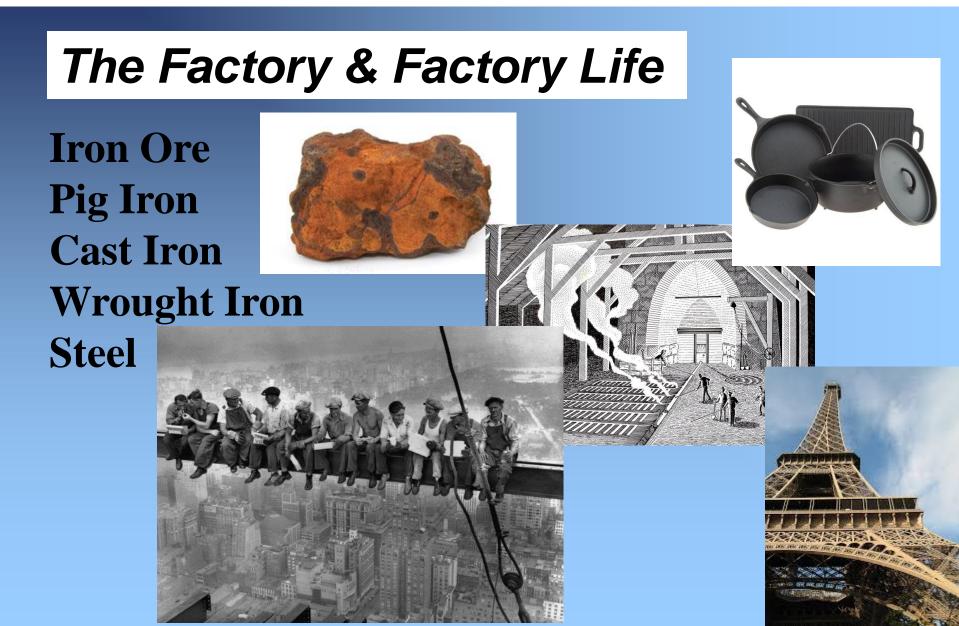
## The Power Loom- by

**Edmund Cartwright** 



Limiting Industrialization to Europe





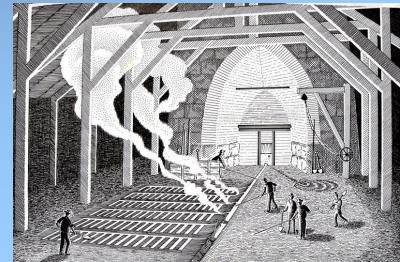
## The Factory & Factory Life

## Iron Ore Pig Iron



The crude impure iron, which is extracted from iron ores, is known as **pig-iron** and it forms the basic material for the manufacture of

cast-iron, wrought iron and steel.



## The Factory & Factory Life

<u>Cast iron</u> is manufactured by remelting pig iron with coke and limestone. The impurities of pig iron are removed to some extent by oxidation. The molten cast iron is led into molds (casts) of required shapes.





Wrought iron is almost pure and it hardly contains carbon more than 0.15 percent. But the process of its manufacture is laborious and tedious. It can be easily forged and welded, is ductile, malleable and tough and is unaffected by saline water.

It is used for rivets, chains, ornamental iron work, water and steam pipes, bolts and nuts, horse shoe bars, hand rails, etc.

## The Factory & Factory Life

**Steel** is an iron alloy with a few tenths of a percent carbon added to improve fracture toughness resistance when compared to other kinds of iron. Many elements may exist or be added.

Corrosion- and oxidation-resistant stainless steels normally require



## The Factory & Factory Life

**Specialization of labor** 

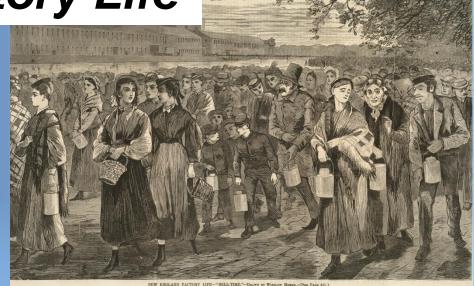
**Efficient organization** 

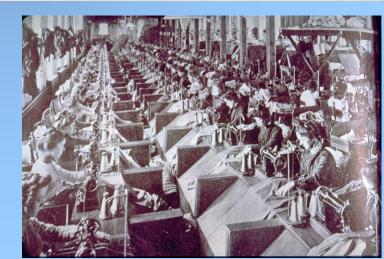
**Power-driven machinery** 

Time clocks, bells and whistles



Age of Worker	Male Wages	Female Wages
under 11	2s 3d.	2s. 4d.
11 - 16	4s. 1d.	4s. 3d.
17 - 21	10s. 2d.	7s. 3d.
22 - 26	17s. 2d.	8s. 5d.
27 - 31	20s. 4d.	8s, 7d,
32 - 36	22s, 8d,	8s. 9d.
37 - 41	21s. 7d.	9s. 8d.
42 - 46	20s. 3d.	9s, 3d,
47 - 51	16s. 7d.	8s. 10d.
52 - 56	16s. 4d.	8s. 4d.
57 - 61	13s. 6d.	6s. 4d.





## **Custom Barriers – Tariffs and Taxes**



## The Structure of Society

**Aristocracies and Peasants** 

**Upper Class** 

The Middle Classes:

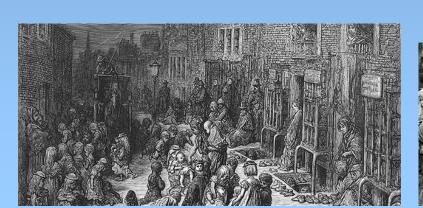
**Upper – bankers, industrialists** 

Middle - merchants, lawyers, doctors

Lower - clerks, teachers, shopkeepers

**Working Class** 

Under Class (poor)







### Family Life in the 19th C.

Urbanization and factory life
Poor housing
unemployment
weakened family ties



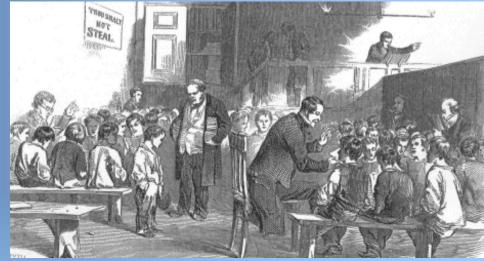


Family Life in the 19th C.

Help for the poor:

William Booth and the Salvation Army – 1878







### Family Life in the 19th C.

Help for the poor:

William Booth and the Salvation Army – 1878



#### GENERAL WILLIAM BOOTH ENTERS INTO HEAVEN

(To be sung to the tune of THE BLOOD OF THE LAMB with indicated instruments.)

Booth led boldly with his big bass drum.

Are you washed in the blood of the Lamb?

The saints smiled gravely, and they said, "He's come."

Are you washed in the blood of the Lamb?

Walking lepers followed, rank on rank,

Lurching bravos from the ditches dank,

Drabs from the alleyways and drug-fiends pale —

Minds still passion-ridden, soul-powers frail!

Vermin-eaten saints with mouldy breath,

Unwashed legions with the ways of death —

Are you washed in the blood of the Lamb?

#### The Irish Famine 1845-1852

1 million deaths

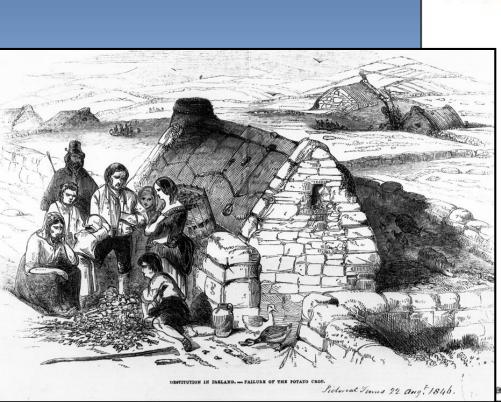
2 million emigrate

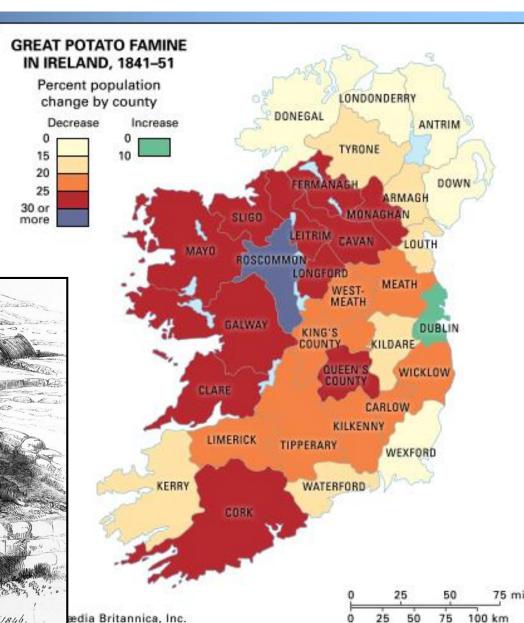


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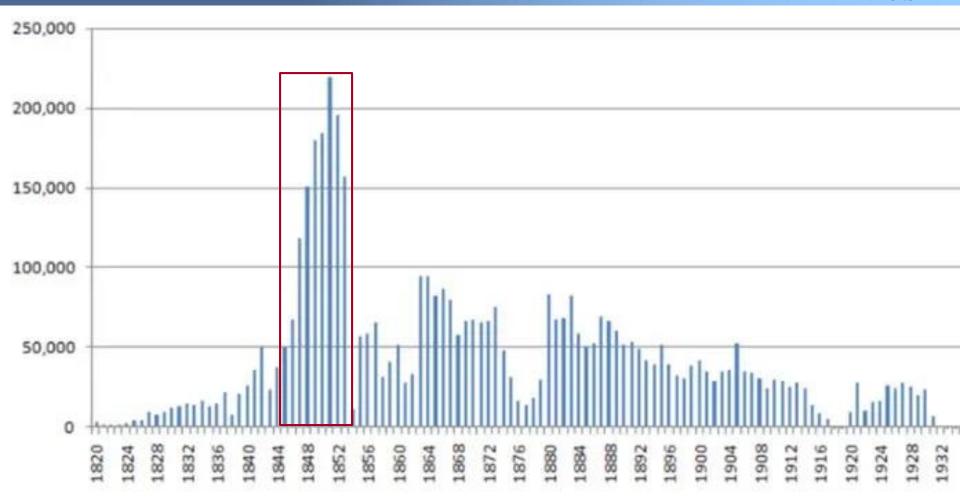
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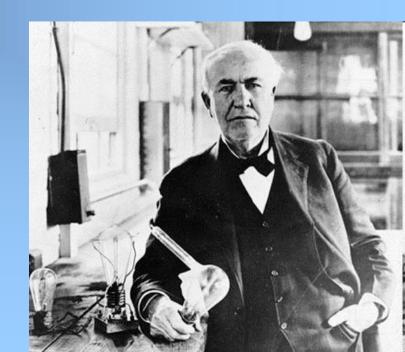
## Irish Immigration to the US

Between 1820 and 1975, 4.7 million Irish settled in America. Between 1845 and 1855 1.5 million Irish arrived in the US.



## A Second Industrial Revolution driven by electricity

"Better living ...
though Chemistry"
Bessemer (1855) steel
Nobel (1867) Dynamite
Bell (1876) telephone

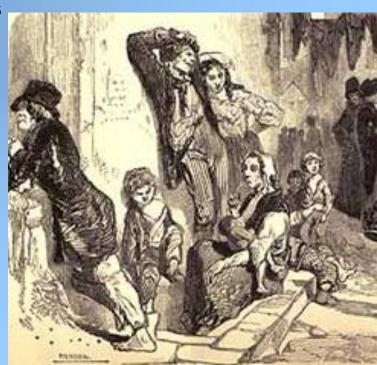


## The Changing Population

**Demographic Growth – more food = more babies** 

**Urbanization** – more cities = more problems

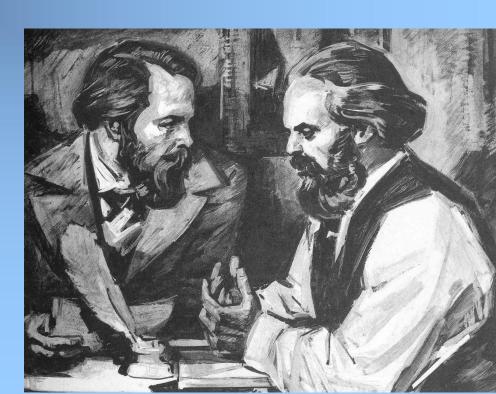
**Differential Fertility – more \$ = few babies** 



## Socialism (but not utopian) and Karl Marx

**Karl Marx – lawyer and economist** 

Friedrich Engels – wealthy industrialist



## Karl Marx

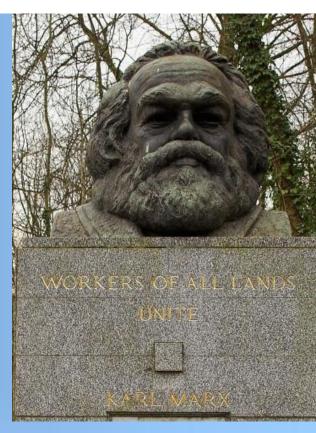
Communist Manifesto (1848) Das Kapital (1867)

Religion "opiate of the people"

**Labor Theory of Value** 

#### **Proletarian Revolution**

To overcome the <u>fetters of private property</u> the working class must seize political power internationally through a social revolution and expropriate the capitalist classes around the world and place the productive capacities of society into collective ownership. Classes would be abolished and the basis for all forms of inequality between humankind would dissolve.



## Revolutions of 1830s

France - July Monarchy 1830
June Rebellion 1832 (Les Misérables)

Belgium (Aug.)— Catholic, French speaking, liberals

Spain – 1833 – 5 years, liberal victory

Texas – 1836 -

## Revolutions of 1848

**The Spring of Nations** 



France – Italy – German States – Austria – Denmark – Hungary – Poland - Brazil

Reforms w/o revolution: Belgium, Netherlands

No revolution in Great Britain and Russia

## Revolutions of 1848



#### NEXT...

## CH. 19: Crimea then and now Formation of Italy and Germany

