CHAPTER 3

Industry Comes of Age

I. The Iron Colt Becomes an Iron Horse

- Industrial development of the United States:
 - Railroads
 - Outburst of railroad construction was crucial
 - 1865 there were 35,000 miles of steam railways
 - 1900 there was 192,556 and much west of the Mississippi (see Figure 24.1)
 - Transcontinental railroads building:
 - Was costly and required government subsidies
 - The construction of railway systems promised greater national unity and economic growth.

I. The Iron Colt Becomes an Iron Horse (cont.)

- Arguments from military and postal needs impressed Congress:
 - To advance liberal loans to two favored cross-continent companies in 1862
 - Adding enormous donations for acreage paralleling the tracks
 - Washington rewarded the railroads with 155,504,994 acres, and western states contributed 49 million—for a total of an area larger than Texas (see Map 24.1).
 - Land grants were made to railroads in broad belts along the proposed route
 - Within these belts railroads could chose alternate mile-square in checkerboard fashion.

I. The Iron Colt Becomes an Iron Horse (cont.)

- Until determination of precise routes for tracks, the railroads withheld all the land from other uses
- President Cleveland ended the foot-dragging practice in 1887:
 - By throwing open to settlement the still-unclaimed public portion of the land-grant areas.
- Government benefits:
 - Long-term preferential rates for postal service and military traffic
 - Granting land was a "cheap" way to subsidize a much-desired transportation system:
 - Avoided new taxes for direct cash grants.

I. The Iron Colt Becomes an Iron Horse (cont.)

- The railroads could turn the land into gold by using it as collateral for loans from private bankers or by selling it
- Average price of \$3 per acre.
- Critics overlooked that the land had relatively modest value until the railroads had ribboned it with steel.
- Frontier villages along the route flourished into cities
 - Those that were bypassed became "ghost towns"
 - Ambitious towns customarily held out monetary incentives to the builders:
 - Sometimes blackmailed them into contributing more generously.

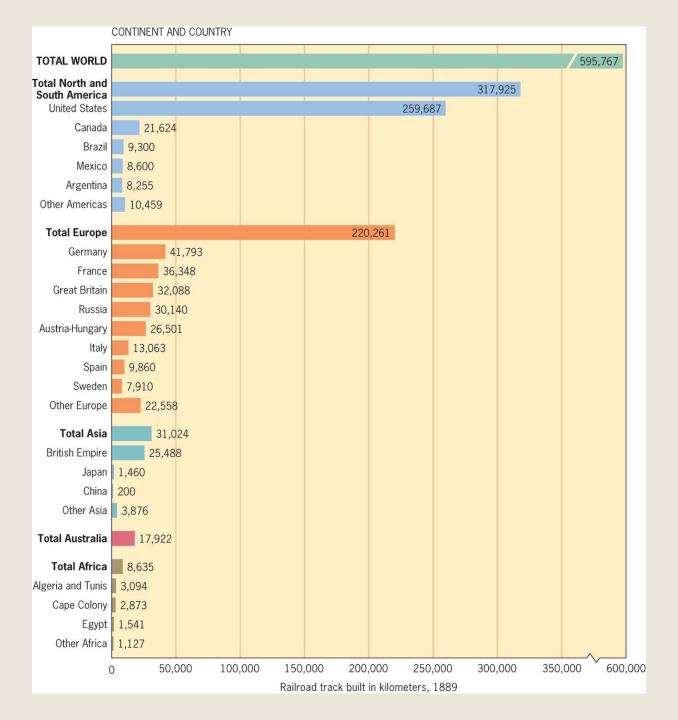


Figure 24-1 p513

- In 1862 Congress started the long-awaited line:
 - Argument for action was the urgency of bolstering the Union
 - By binding the Pacific—especially gold-rich California
 - more security with the rest of the Republic.
 - The Union Pacific Railroad:
 - Note the word Union: to thrust westward from Omaha
 - For each mile of track constructed:
 - The company was granted 20 square miles of land

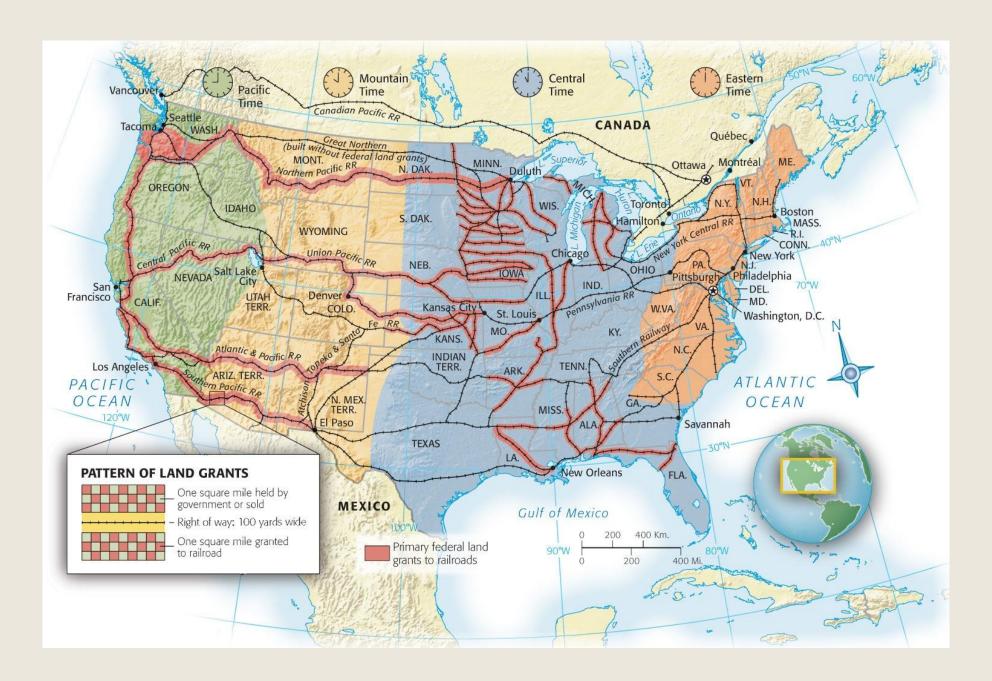
- Alternating in 640-acre sections on either side of the track
- For each mile, the builders were given generous federal loans from \$16,000 on flat prairie land to \$48,000 for mountainous country
- The laying of rails began in earnest after the Civil War.
- "groundhog" promoters made haste.
- Credit Mobilier:
 - One construction company that reaped fabulous profits
 - Pocketed \$73 million for \$50 million worth of breakneck construction,
 - Spending small change to bribe congressmen to look the other way.

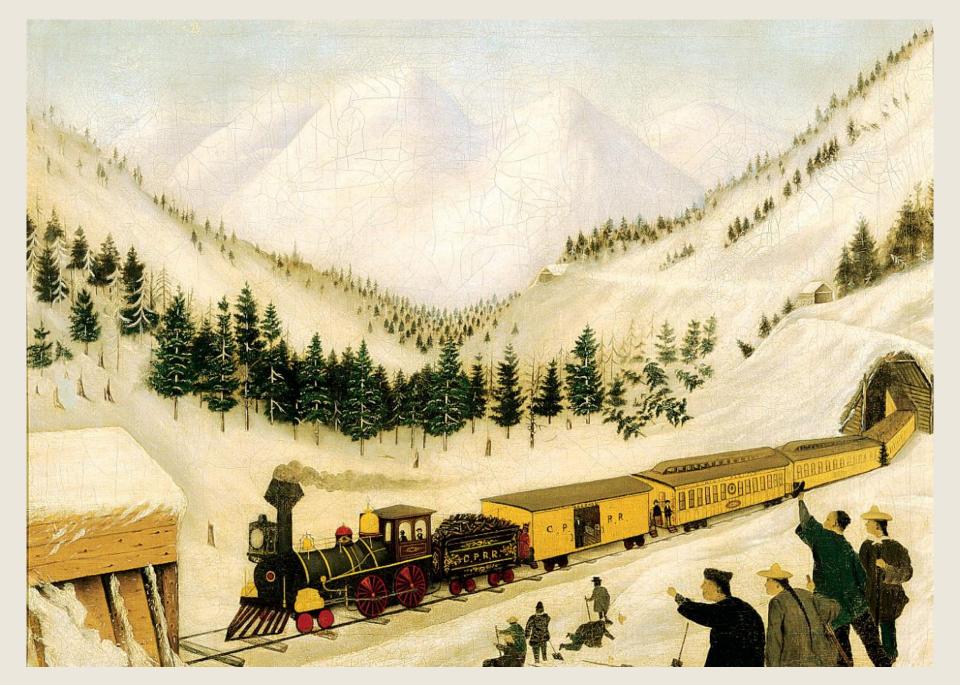
- Construction work:
 - Sweaty construction gangs, Irish "Paddies" (Patricks) worked at a frantic pace
 - When hostile Indians, whose land was seized, would attack, the workers would seize their rifles
 - Scores of people lost their lives
 - At the end of the tracks, workers tried to find relaxation and conviviality in their tented towns.

- Central Pacific Railroad:
 - The line pushed eastward from boomtown Sacramento, through the towering snowclogging Sierra Nevada
 - Four far-seeing men—Big Four—were the chief financial backers of the enterprise:
 - Enterprising ex-governor Leland Stanford of California, who used his political connections
 - Collis P. Huntington, an adept lobbyist
 - They operated two construction companies, pocketed tens of millions in profits, kept their hands clean from bribes.

- Granted the same princely subsidies as the Union Pacific
- Had the same incentive to haste
- Had ten thousand Chinese laborers:
 - Sweat from dawn to dusk
 - Proved to be cheap, efficient, and expendable
- Over the Sierra Nevada only a few inches a day tunneling through the solid rock
- While the sledgehammering westward groups cross the open plains.
- "Wedding of the rails" consummated near Ogden, Utah, 1869 with a colorful ceremony.
- In all, the Union Pacific built 1,086 miles, the Central Pacific 689 miles.

- Results of the railroad construction:
 - One of America's most impressive peacetime undertakings
 - Welded the West Coast more firmly to the Union
 - Facilitated a flourishing trade with Asia
 - Penetrated the arid barriers of the deserts, paving the way for the phenomenal growth of the Great West.







III. Binding the Country with Railroad Ties

- Four other trans-continental lines were completed:
 - None secured monetary loads from the government
 - All of them except the Great Northern received generous grants of land.
 - The Northern Pacific—stretched from Lake Superior to Puget Sound, finished in 1883
 - The Atchison, Topeka, and Santa Fe—stretched from the southern deserts to California, finished in 1884

III. Binding the Country with Railroad Ties (cont.)

- The Southern Pacific ribbonned from New Orleans to San Francisco, consolidated in 1884
- The Great Northern ran from Duluth to Seattle, hammered home in 1893:
 - The creation of far-visioned Canadian American James J. Hill, probably the greatest railroad builder
 - His enterprise was so soundly organized that it rode through later financial storms with flying colors.
- Sometimes rails were laid "from nowhere to nothing"
- There were endless bankruptcies, mergers, and reorganizations.

IV. Railroad Consolidation and Mechanization

- Western lines was facilitated by welding and expanding the older eastern networks
 - Notably the New York Central:
 - Leader was "Commodore" Cornelius Vanderbilt
 - Offering superior railway service at lower rate, Vanderbilt amassed a fortune of \$100 million.



V. Revolution by Railways

- The railroads intimately touched countless phases of American life:
 - The first time the sprawling nation became united in a physical sense, bound with ribs of iron and steel:
 - America's biggest industry:
 - Employing more people than any other industry
 - Gobbling up nearly 20% of investment dollars from foreign and domestic investors:
 - Spurred the amazing economic growth of post-Civil War years.

V. Revolution by Railways (cont.)

- Opened the west with its wealth of resources
- Made America the largest integrated national market in the world
- Generated the largest single source of orders for the adolescent steel industry
- Stimulated mining and agriculture in the West
- Clusters of farm settlements paralleled the railroads
- Railways boon to cities and leading the great city-ward movement of the last decades of the century

V. Revolution by Railways (cont.)

- Stimulated the mighty stream of immigration
- The land also felt the impact of railroad:
 - Especially the broad, ecologically fragile midsection
 - Settlers plowed up the tallgrass prairies and planted well-drained, rectangular cornfields
 - The range-fed cattle rapidly displaced the buffalo, hunted to near-extinction
 - The white pines forest disappeared into lumber to build houses and fences

V. Revolution by Railways (cont.)

- Time itself was bent to the railroad's needs:
 - Until the 1880s each town had its own "local" time
 - On November 18, 1883, the major rail line decreed the continent would be divined in four "time zones"
 - Most communities quickly adopted "standard" time
- Railroads were the maker of millionaires:
 - Colossal wealth was amassed by stock speculators and railroad wreckers.

VI. Wrongdoing in Railroading

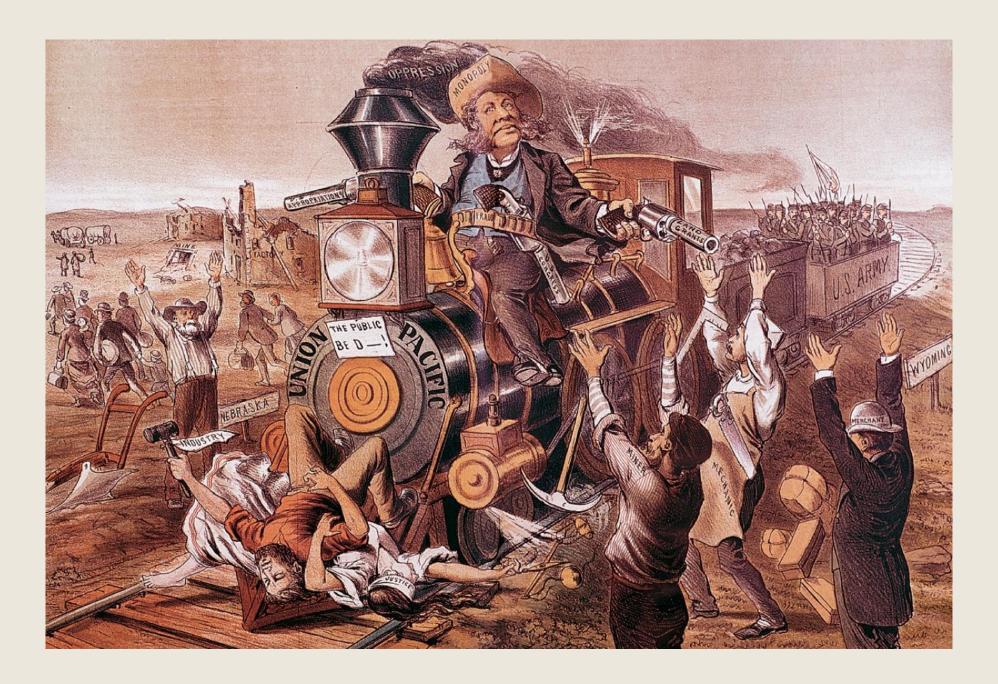
- Corruption lurks when fortunes can materialize overnight:
 - Jay Gould was the most adept of the ringmasters of rapacity
 - For years he boomed and busted the stocks of major railroad companies by means of speculation
 - "Stock watering" making cattle thirsty by feeding them salt and bloating them with water before weighing them in for sale
 - Using the method, railroad stock promoters grossly inflated their claims about a given line's assets and profitability, and sold stocks and bonds far in excess of actual value.

VI. Wrongdoing in Railroading (cont.)

- Railroad managers were forced to charge extortionate rates and wage ruthless competitive battles to pay off financial obligations
- Public interest was trampled by railroad titans who waged their brutal wars
- The railroaders blandly bought and sold people:
 - Bribed judges and legislatures
 - Employed arm-twisting lobbyists
 - Elected their own "creatures" to high offices
 - Showered free passes on journals and politicians in the West
 - Were for a time, virtual industrial monarchs.

VI. Wrongdoing in Railroading (cont.)

- These industrial monarchs:
 - Manipulated a huge national monopoly:
 - Exercised more direct control over people than the president—with no limit to four year terms:
 - Evidentially they left the crude bloodletting cutthroat competition for cooperation to rule the railroads
 - They entered into defensive alliances to protect profits
 - Early form of combination was the "pool":
 - An agreement to divide the business in a given area and share the profits
 - Some granted secret rebates or kickback
 - Slashed their rates on competing lines.



VII. Government Bridles the Iron Horse

- The American people were quick to respond to political injustice, but slow to combat economic injustice:
 - Dedicated to free enterprise and principle that com-petition is the soul of trade
 - They cherished a traditionally keen pride in progress
 - They remember Jefferson's ideas were hostile to government interference with business
 - There shimmered the "American dream": the hope that in a catch-as-catch-can economic system, anyone might become a millionaire.

VII. Government Bridles the Iron Horse (cont.)

- Under pressure from the Grange (Patrons of Husbandry)—organized agrarian groups:
 - Many midwestern legislatures tried to regulate monopoly:
 - In the famed *Wabash, St. Louis & Pacific Railroad Company v. Illinois* case:
 - The Supreme Court decreed individual states had no power to regulate interstate commerce
 - If the mechanical monster were to be corralled, the federal government would have to do it.
 - Stiff-necked Cleveland did not look kindly on effective regulation.

VII. Government Bridles the Iron Horse (cont.)

- Epochal Interstate Commerce Act (1887):
 - It prohibited rebates and pools
 - Required the railroads to publish their rates openly
 - Forbade unfair discrimination against shippers
 - Outlawed charging more for a short haul than a long one over the same line
 - Most important—it set up the Interstate Commerce Commission (ICC) to administer and enforce new legislation.
 - Despite acclaim, the ICC Act emphatically did not represent a popular victory over corporate wealth.

VII. Government Bridles the Iron Horse (cont.)

- What the new (ICC Act) legislation did do was:
 - Provide an orderly forum where competing business interests could resolve their conflicts in peaceable ways
 - The ICC Act tended to stabilize, not revolutionize, the existing business system
 - The Act still ranks as a red-letter law
 - First large-scale attempt by Washington to regulate business in the interest of society at large
 - It heralded the arrival of independent regulatory commissions:
 - Which commit the government to the daunting task of monitoring and guiding the private economy

VIII. Miracles of Mechanization

- Postwar industrial expansion:
 - 1860—the Republic ranked fourth
 - 1894—the Republic ranked first.
 - Why the sudden upsurge:
 - Liquid capita, once scarce, was now abundant
 - The word *millionaire* had not been coined until 1840s
 - 1861 there were only a handful
 - The Civil War profiteering created immense fortunes which were now combined with borrowed foreign capitalists.

- Most of the foreign resources went into private hands not public coffers
- Investors from Britain, followed by France, Germany, the Netherlands and Switzerland:
 - Owned all or part of an American business
 - Other times they simply lent their money to European companies to many investments in the U.S. industry
 - Either way Europeans were content to let Americans run the business—until hard times hit—and they demanded more say over company operations or government economic policies.

- Innovations in transportation fueled growth:
 - Bringing the nation's abundant resources—coal, oil, iron—to the factory door
 - Shipping system through the Great Lakes carried the rich iron deposits in the Mesabi Range, Minnesota to Chicago and Cleveland for refining
 - This became a corner stone of a vast steel empire
 - Copper, bauxite, zinc made similar journeys from mine to manufacture
- The sheer size of American market encouraged innovators to invent massproduction methods:
 - Anyone could make a new product in large quantities, figure how to market it and thrive.

- Industrials continued to refine the pre-Civil War "American System"—using specialized machinery to make interchange-able parts:
 - Resulting in Henry Ford's fully developed moving assembly line for his Model T (see pp. 231-232 and 711-712)
- Captains of industry had a major incentive to invent machines
 - They made it possible to replace expensive skilled labor with unskilled workers
 - Now cheap and plentiful as a result of massive immigration.

- Brilliant ideas gave rise to whole new businesses:
 - Between 1860-1890 some 440,000 patents were issued
 - Business operations were facilitated by machines:
 - The cash register, the stock ticker, typewriter
 - While the refrigerator car, the electric dynamo, and the electric railway speeded urbanization
 - One of the most ingenious inventions was the telephone—Alexander Graham Bell, 1876:
 - Created a gigantic communication network
 - Social impact when the lure of "number please" took women away from the stove to the switchboard

VIII. Miracles of Mechanization (cont.)

- The most versatile inventor—Thomas Alva Edison (1847-1931):
 - His severe deafness enabled him to concentrate without distraction
 - He was a gifted tinkerer and a tireless worker, not a pure scientist
 - Wondrous devices poured out of his "invention factory" in New Jersey—the phonograph, the mimeograph, the dicta-phone, and the moving picture
 - Best known for his perfection in 1879 of the electric lightbulb
 - It turned night into day and transformed human habits
 - People who slept an average of 9 hours a night now slept just a bit more than
 7.





IX. The Trust Titan Emerges

- Most business leaders devised plans to circumvent competition:
 - Andrew Carnegie, the steel king
 - Integrated every phrase of his steel-making operation
 - His miners scratched the ore from the Mesabi Range
 - His ships floated it across the Great Lakes
 - His railroads delivered it to the blast factories at Pittsburgh
 - No other hands had touched it when the metal poured into the waiting ingot molds

IX. The Trust Titan Emerges (cont.)

- He pioneered the creative entrepreneurial tactic of **vertical integration**:
 - Combining into one organization all phases of manufacturing from mining to marketing
 - His goal was to improve efficiency by making supplies more reliable:
 - Controlling the quality of the product at all stages of production, and eliminating middlemen's fees.
- He was a master of the technique of **horizontal integration**:
 - Meant allying with competitors to monopolize a given market

IX. The Trust Titan Emerges (cont.)

- He perfected a device for controlling bothersome rivals—the **trust**:
 - Stockholders in various smaller oil companies assigned their stock to the board of directors of his Standard Oil Company (1870)
 - It then consolidated and concerted the operations of the previously competing enterprises
 - Ruthlessly wielding vast power, Standard Oil soon cornered virtually the entire world of petroleum market
 - He inspired many imitators, and the word trust came to be generally used to describe any large-scale business combination.

IX. The Trust Titan Emerges (cont.)

- J. Pierpont Morgan:
 - Devised other schemes to eliminate "wasteful" competition:
 - The depression of 1890s drove to Morgan many bleeding businesspeople,
 - Wounded by cutthroat competition
 - His prescribed remedy was to consolidate rival enterprises
 - To ensure future harmony he placed officers of his own banking syndicate on their various boards of directors, known as interlocking directorates.

X. The Supremacy of Steel

- "Steel is king":
 - The mighty metal held together new steel civilization—from skyscrapers to coal shuttles:
 - Steel making, notable rails for railroads, typified the dominance of the "heavy industry"—thus making capital goods
 - Steel had become expensive
 - "Commodore" Vanderbilt was forced to import steel rails from Britain
 - Within 20 years the United States had outdistanced all foreign competitors, pouring out 1/3 of the world's supply of steel.

x. The Supremacy of Steel (cont.)

- What wrought the transformation?
 - The Bessemer process:
 - Invented in 1850s; was a method of making cheap steel
 - First, William Kelly, a Kentucky manufacturer, developed the new "air blowing" technique
 - Gradually the Bessemer-Kelly process was accepted, and the two "crazy men" ultimately made possible the present steel civilization.

XI. Carnegie and Other Sultans of Steel

- Andrew Carnegie—kingpin steelmaster:
 - Gifted organizer and administrator:
 - He succeeded by picking high-class associates
 - He eliminated many middlemen
 - His business was a partnership that involved, at its maximum, about forty "Pittsburgh millionaires"
 - By 1900 he was producing ¼ of the nation's Bessemer steel:
 - Partners, pre-income tax days, were dividing profits of \$40 million a year as their take home pay
 - With the "Napoleon of the Smokestacks" himself receiving a cool \$25 million.

XI. Carnegie and Other Sultans of Steel (cont.)

- J. Pierpont Morgan: the financial giant
 - "Jupiter" Morgan made a reputation by:
 - financing the reorganization of railroads, insurance companies, and banks
 - He did not believe that "money power" was danger-ous, except in dangerous hands—and he did not regard his own hands as dangerous.
 - The force of circumstances brought Morgan and Carnegie into collision:
 - By 1900 Carnegie was ready to sell his holdings
 - Morgan meanwhile plunged heavily into the manufacture of steel pipe tubing.

XI. Carnegie and Other Sultans of Steel (cont.)

- Carnegie cleverly threatened to enter the same business if his rival did not receive his price
- Carnegie's agents haggled Morgan for 8 hours until Morgan agreed to buy out Carnegie for over \$400 million
- Carnegie fearing he would die "disgraced" with so much wealth, dedicated the remaining years to giving away his money:
 - Public libraries, pensions for professors, and other philanthropic purposes
 - In all disposing of about \$350 million.

XI. Carnegie and Other Sultans of Steel (cont.)

- Morgan moved rapidly to expand his new industrial empire:
 - He took the Carnegie holdings, added others, "watered" the stock liberally and in 1901 launched the enlarged United States Steel Corporation
 - Capitalized at \$1.4 billion—America's first billion-dollar corporation:
 - A larger sum than the total estimated wealth of the nation in 1800
 - The Industrial Revolution had come into its own.



- The emergence of the oil industry—one of the most striking developments before/after the Civil War:
 - In 1859 the first well in Pennsylvania—Drake's Folly" poured out its liquid "black gold"
 - Kerosene, derived from petroleum, was the first major product of the infant oil industry
 - The oil industry boomed
 - By 1870s kerosene was America's fourth most valuable export.

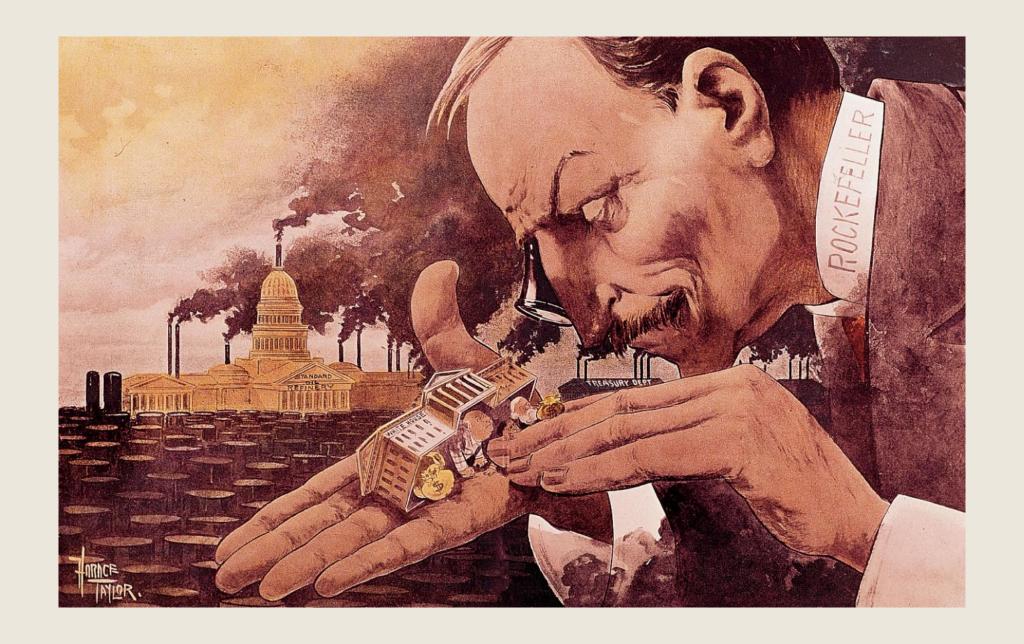
- What technology gives, technology takes away:
 - By 1886, 250,000 of Edison's electric light bulbs were in use; 15 years later, 15 million
 - The new electric industry rendered kerosene obsolete just as kerosene had rendered whale oil obsolete
 - Oil might have remained a modest, shrinking industry, but for the invention of the automobile:
 - In 1900 the gasoline-burning internal combustion engine had surpassed its rivals, steam and electricity, as the superior means of automobile propulsion.
 - The automobile age gave the oil business a new, long-lasting and hugely profitable lease on life.

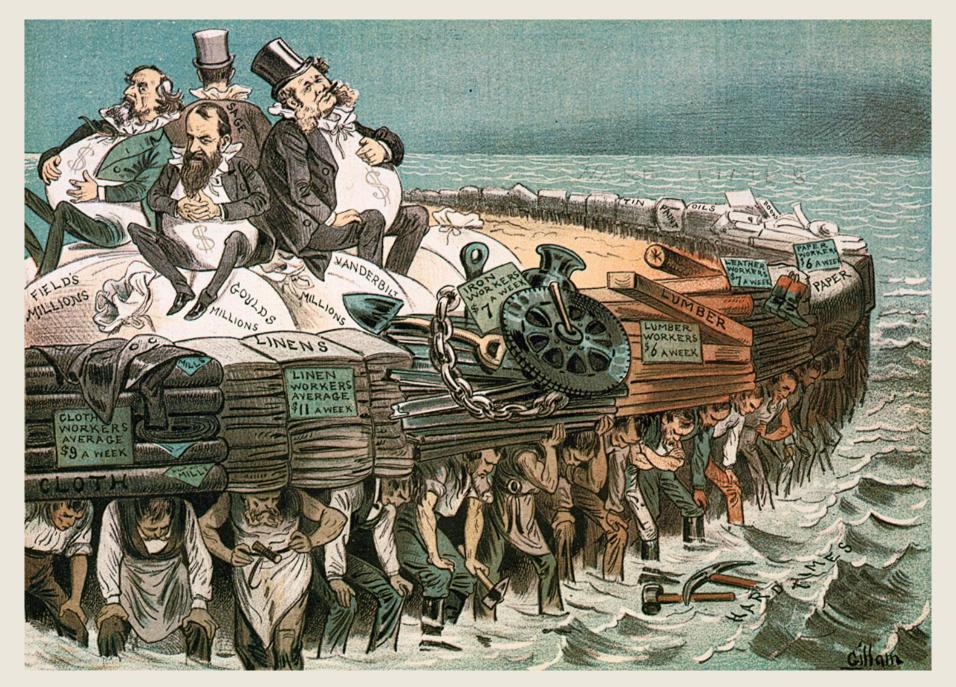
- John D. Rockefeller comes to dominate the oil industry
 - In 1870 he organized the **Standard Oil Company** of Ohio:
 - Nucleus of the great trust formed in 1882
 - Locating his refineries in Cleveland, he sought to eliminate the middlemen and squeeze out competitors
 - Rockefeller flourished in an age of completely free enterprise.

- He operated "just to the windward of the law," and pursued a policy of rule or ruin
- By 1877 he controlled 95 percent of all the oil refiners in the country
- Rockefeller—"Reckafellow," as Carnegie had once called him—showed little mercy:
- Rockefeller's oil monopoly did turn out a superior product at a relatively cheap price
- It achieved important economies by its large-scale methods of production and distribution.
- The efficient use of expensive machinery and consolidation proved more profitable than ruinous price wars.

Other trusts blossomed:

- Sugar trust, the tobacco trust, the leather trust, the harvester trust—which amalgamated 200 competitors
- The meat industry arose on western herds and kings—Gustavus F. Swift and Philip Armour
- These untrustworthy trusts, and the "pirates" who captained them, were disturbing new
- There was a class of "new rich".





XIII. The Gospel of Wealth

- Credited heavenly help:
 - "the good Lord gave me my money"—J.D. Rockefeller
 - Agreed that wealth, entrusted with society's riches, had to prove themselves morally responsible according to the "Gospel of Wealth"—A. Carnegie
 - Most defenders of capitalism relied on the survival-of-the fittest theories of Herbert Spencer and William Graham
 - These Social Darwinists argued that individuals won their stations in life by competing on the basis of their natural talents.

XIII. The Gospel of Wealth (cont.)

- Evolutionary proponents:
 - Spence and Sumner likened somewhat to Charles Darwin who stressed the adaptation of organisms
 - But more to:
 - British laissez-faire economists David Ricardo and Thomas Malthus
 - Spencer, not Darwin, coined the phrase "survival of the fittest"
 - The millionaires are a product of natural selection—Sumner.

XIII. The Gospel of Wealth (cont.)

- Self-justification by the wealthy inevitably involved contempt for the poor
 - Reverend Russell Conwell, Philadelphia, became rich by delivering his lecture "Acres of Diamonds" thousands of times.
 - Plutocracy took its stand on the Constitution:
 - The clause that gave Congress sole jurisdiction over interstate commerce was a godsend to the monopolists
 - Giant trusts sought refuge behind the Fourteenth Amendment.

XIII. The Gospel of Wealth (cont.)

- The courts ingeniously interpreted a corporation to be a legal "person":
- Therefore it cannot be deprived of its property by a state without "due process of law" (see Amendment XIV, para, 1 in the Appendix)
- Giant industrialist sought to incorporate in "easy states," like New Jersey, where the restrictions on big business were mild or nonexistent.

XIV. Government Tackles the Trust Evil

- The masses of the people began to mobilize against monopoly:
 - First tried to control the trusts through state legislatures
 - By failure, they were forced to appeal to Congress:
 - The Sherman Anti-Trust Act (1890):
 - It flatly forbade combinations in restraint of trade, without any distinction between "good" trusts and "bad" trusts
 - Bigness, not badness, was the sin

XIV. Government Tackles the Trust Evil (cont.)

- The law proved ineffective, largely because it contained legal loopholes
- Effective in one respect: contrary to its original intent, it was used to curb labor unions or labor combinations that were deemed to be restraining trade
- Prosecution of trusts under the Sherman Act (1890) was neither vigorous nor successful
- More new trusts were formed in the 1890s under President McKinley than during any other period
- Only after 1914 were the paper jaws added to the Sherman Act
- The iron grip of monopolistic corporations were being threatened.

XIV. Government Tackles the Trust Evil (cont.)

- Revolutionary new principles had been written into the law books by the Sherman Anti-Trust Act of 1890, as well as by the Interstate Commerce Act of 1887.
- Private greed should henceforth be subordinated to public need.





XV. The South in the Age of Industry

- Economic conditions of the South:
 - As late as 1900, the South still produced a smaller percentage of the nation's manufactured goods than it had before the Civil War
 - The plantation system had degenerated into a pattern of absentee landownership
 - White and black sharecroppers tilled the soul for a share of the crop
 - Some became tenants, in bondage to their landlords, who controlled needed credit and supplies.

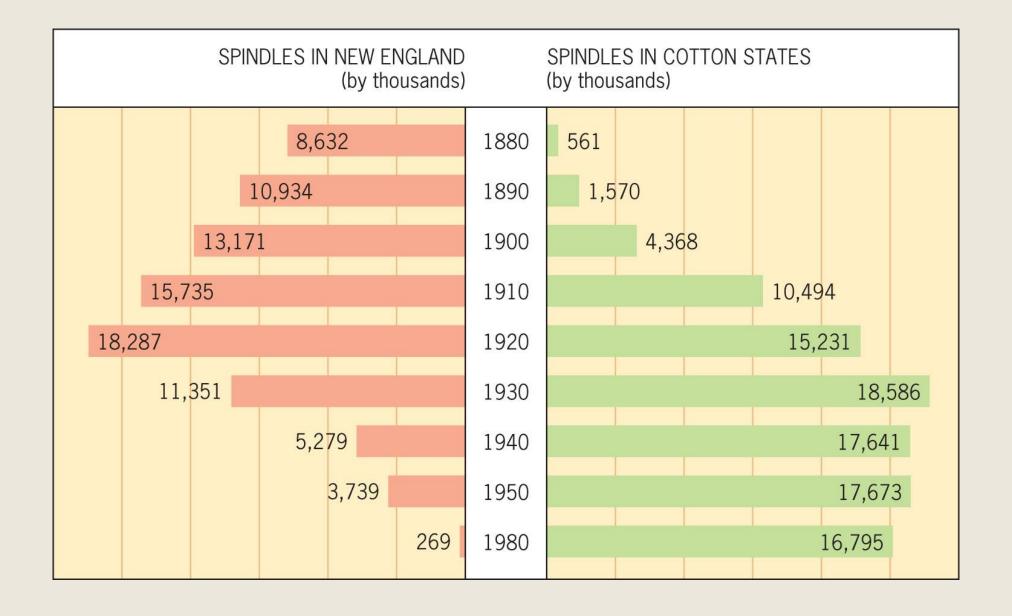
- Southern agriculture:
 - Received a boost when machine-made cigarettes replaced the roll-your-own variety and consumption increased
 - James Buchanan Duke
 - Took advantage of new technology to mass-produce the dainty "coffin nails."
 - In 1890 he absorbed his main competitors into the American Tobacco Company
 - Showed such generosity to Trinity College, Durham, N. Carolina, that the trustees gratefully changed its to Duke University.

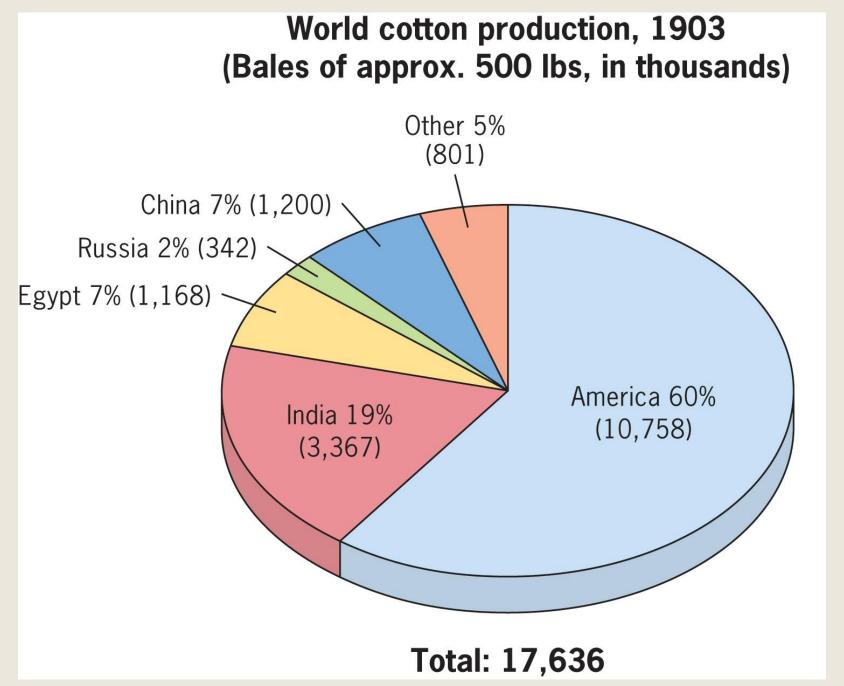
- The south remained overwhelmingly rural
- "New South" booster was Henry W. Grady:
 - Editor of the Atlanta Constitution
 - He tirelessly exhorted the ex-Confederates to become "Georgia Yankees" and outplay the North at the commercial and industrial game
- Formidable obstacles lay in the path of southern industrialization:
 - The paper barrier of regional rate-setting systems imposed by the northerndominated railroad interests

- Railroads gave preferential rates to manufactured goods moving southward from the North
- But in the opposite direction they discriminated in favor of southern raw materials
- Net affect—keep the South in servitude to the Northeast.
- Example—the "Pittsburgh plus" pricing system in the steel industry.
- In manufacturing cotton textiles, the South fared better (see Figure 24.2 and Figure 24.3).
- The textile mills proved to be a mixed blessing to the economically blighted South.
- Cheap labor was the South's major attraction for potential investors, and keeping labor cheap became almost a religion among southern industrialists.

- The mills took root in the chronically depressed Piedmont region of southern Appalachia
- White rural southerners sought employment in company mill towns
 - Entire families—"hillbillies" or "lintheads" worked from dawn to dusk
 - Were paid half the rate of their northern counterparts
 - Often received their compensation in the form of credit at a company store, to which they were habitually in debt
 - Many saw employment in the mills as a salvation.







XVI. The Impact of the New Industrial Revolution on America

- Economic miracles:
 - The standard of living rose sharply
 - Well-fed American workers enjoyed more physical comforts
 - Urban centers mushroomed as the insatiable factories demanded more American labor and increased immigration for the new jobs (see Map 24.2)
 - Federal authority was now committed to decades of corporation curbing and "trust-busting"
 - The very concept of time was revolutionized
 - Not by the clock of nature but the factory whistle.

XVI. The Impact of the New Industrial Revolution of America

- Most affected group were the women
 - Propelled into industry by new inventions, they discovered new economic and social opportunities
 - The "Gibson Girl" created by Charles Dana Gibson showed an image of an independent and athletic "new woman"
 - Most women workers toiled neither for independence nor for glamour, but out of economic necessity
 - They faced long hours and dangerous working conditions as did their mates and brothers
 - They earned less, as wages for "women's jobs" were usually set below those for men's

XVI. The Impact of the New Industrial Revolution in America

- The clattering machine age accentuated class division:
 - "industrial buccaneers" flaunted bloated fortunes
 - Their rags-to-riches spouses displayed glittering diamonds
 - Such extravagances evoked bitter criticism
 - Some of it was envious.
 - But much arose from socialists and other radicals, some recent European immigrants.
 - The existence of an oligarchy of money was amply demonstrated by the fact that in 1900 about one-tenth of the people owned nine-tenths of the nation's wealth.

XVI. The Impact of the New Industrial Revolution in America

- A nation of famers and independent farmers were becoming a nation of wageearners
 - In 1860 half of all workers were self-employed
 - By century's end, two of every three working Americans depended on wage
 - With dependence of wages came the vulnerability to swings of economy and the whims of the employer
 - The fear of unemployment was never distant
 - Reformers struggled to introduce a measure of security—job and wage protection, provision for temporary unemployment—into the lives of the working class.

XVI. The Impact of the New Industrial Revolution in America

- Strong pressures from foreign trade developed
 - International trade became cheaper, faster, and easier
 - The flag follows trade, and empire tends to follow the flag—a harsh lesson that America was soon to learn.







XVII. In Unions There Is Strength

- Workers did not share proportionately with their employers:
 - The workers:
 - Were becoming a lever-puller in a giant mechanism
 - Individual originality and creativity were stifled
 - Less value was placed on manual labor
 - Now the factory hand was employed by a corporation –depersonalized, bodiless, soulless and often conscienceless
 - The directors knew the worker not, and in fairness to their stockholders, they were not inclined to engage in large-scale private philanthropy.

XVII. In Unions There Is Strength (cont.)

- New machines displaced employees
 - In the long run more jobs were created
 - A glutted market severely handicapped wage earners
 - Individual workers were powerless to battle single-handedly against giant industry:
 - Forced to organize and fight for basic rights, they found it very difficult
 - The corporation could dispense with the individual worker much more easily than the worker could dispense with the corporation
 - Employers could pool vast wealth through thousands of stockholders

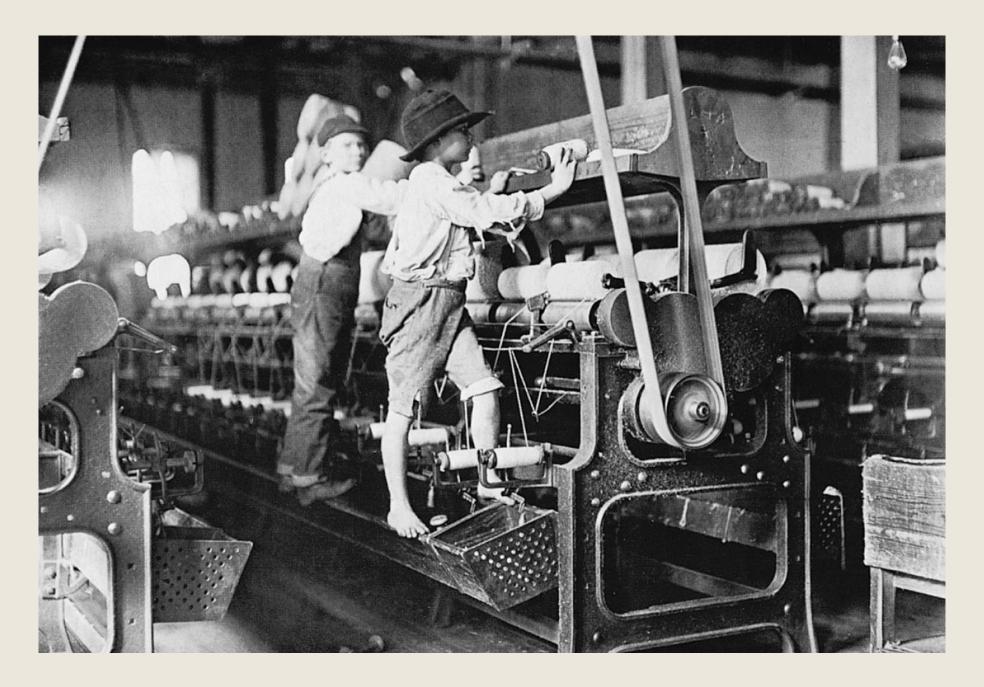
XVI. In Unions There is Strength (cont.)

- Retain high-priced lawyers
- Buy up the local press
- Put pressure on the politicians
- They could import strikebreakers ("scabs") and employ thugs to beat up labor organizers.
- Corporations had other weapons in their arsenals:
 - They could call upon the federal courts to issue injunctions ordering the strikers to cease striking
 - If defiance and disorder ensued, the company could request the state and federal authorities to bring in troops
 - Employers could lock the doors against rebellious workers—a procedure called the "lockout"—and starve them into submission.

XVI. In Unions There is Strength (cont.)

- They could compel them to sign "ironclad oaths" or "yellow-dog contacts" solemn agreements not to join a labor union
- They could put the names of agitators on a "black list" and circulate it among fellow employers
- Often workers sank into perpetual debt to the company stores
- The middle class public, annoyed by recurrent strikes, grew deaf to the outcry of the worker
 - Strikes seemed like a foreign importation—socialistic and hence unpatriotic
 - Big business might combine into trusts to raise prices, but the worker must not combine into unions to raise wages.







XVIII. Labor Limps Along

- Labor unions boosted by the Civil War:
 - Lost of human life put a drain on human resources
 - Put more of a premium on labor
 - The mounting cost of living provided an urgent incentive to unionization
 - By 1872 there were several hundred thousand organized workers
 - 32 national unions, representing crafts as bricklayers, typesetters, and shoemakers.

XVIII. Labor Limps Along (cont.)

- The National Labor Union:
 - Organized in 1866, represented a giant bootstride by workers
 - One of the first national-scale unions to organize:
 - It aimed to unify workers across locales and trades to challenge their ever more powerful bosses
 - It lasted 6 years and attracted the impressive total of some 600,000 members:
 - Including the skilled, unskilled, and farmers
 - It excluded the Chinese and made only nominal efforts to include women and blacks.

XVIII. Labor Limps Along (cont.)

- The Colored National Labor Union:
 - Their support for the Republican Party and the persistent racism of white unionists prevented the two national unions from working together
- The National Labor Union:
 - Agitated for the arbitration of industrial disputes
 - For the eight-hour workday
 - Winning the latter for government workers.

XVIII. Labor Limps Along (cont.)

- The Knights of Labor:
 - Seized the torch dropped by the National Labor Union (see pp. 534-535):
 - Officially known as the Noble and Holy Order of the Knights of Labor
 - Began in 1869 as a secret society, with a private ritual, passwords, and a special handshake
 - Secrecy, which continued until 1881, would forestall possible reprisals by employers
 - They sought to include all workers in "one big union"

XIII. Labor Limps Along (cont.)

- They sought only to bar:
 - "Nonproducers"—liquor dealers, professional gamblers, lawyers, bankers, and stockbrokers.
- They refused to thrust into politics
- Instead they campaigned for economic and social reform:
 - Including producers' cooperatives
 - Codes for safety and health
 - They frowned upon industrial warfare while fostering industrial arbitration
 - They waged a determined campaign for the eight-hour day.

XIII. Labor Limps Along (cont.)

- Under the leadership of Terence V. Powderly:
 - The Knights won a number of strikes for the eight-hour day
 - When the Knights staged a successful strike against Jay Gould's Wabash Railroad in 1885:
 - Membership mushroomed to about three quarters of a million workers.

XIX. Unhorsing the Knights of Labor

- The Knights were riding for a fall:
 - Became involved in a number of May Day strikes in 1886
 - About half of them failed
 - Focal point was Chicago with 80,000 Knights.
 - Haymarket Square episode:
 - Labor disorders had broken out
 - On May 4, 1886 the police advanced on a meeting called to protest alleged brutalities by the authorities
 - Suddenly a dynamite bomb was thrown killing or injuring several dozen people, including police:
 - Hysteria swept the Windy City:
 - Eight anarchists were rounded up
 - Tried because they had preached incendiary doctrines
 - They were charged with conspiracy.

XIX. Unhorsing the Knights of Labor (cont.)

- Five were sentenced to death, one of whom committed suicide, and the other three were given still prison terms.
- Agitation for clemency mounted
- John P. Altgeld was elected governor, he had strong liberal tendencies
 - After Altgeld studied the Haymarket case exhaustively,
 - Pardoned the three survivors
 - Violent abuse was showered on Altgeld by conservatives,
 - Unstinted praise by those who thought the men were innocent
 - Altgeld was defeated for reelection, died a few years later in relative obscurity,
 "The Eagle Forgotten."

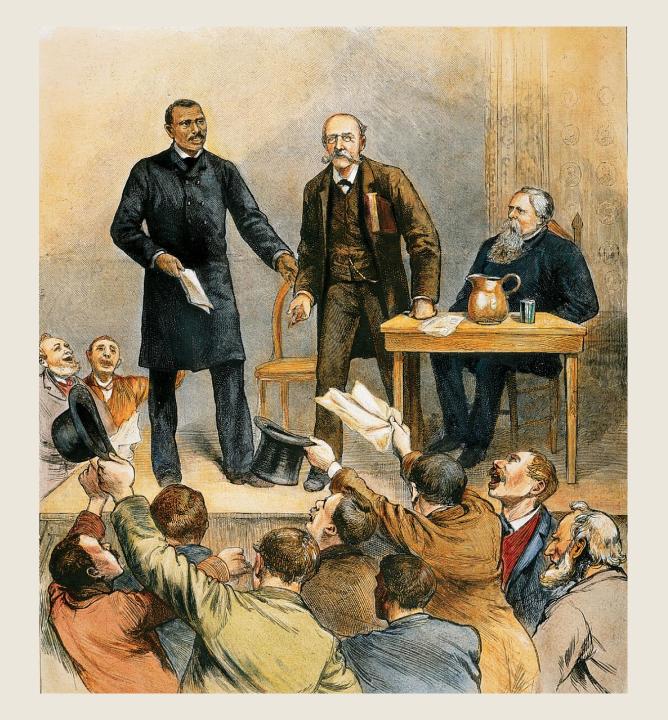
XIX. Unhorsing the Knights of Labor (cont.)

- The Haymarket Square bomb helped blow the props from under the Knights of Labor
 - They had been associated with the anarchists
 - Their strikes met with scant success.
- Another fatal handicap of the Knights was their inclusion of both skilled and unskilled workers:
 - Unskilled labor could easily be replaced by strikebreaking "Scabs"
 - High-class craft unionists couldn't be replaced so readily
 - Hence they enjoyed a superior bargaining position.

XIX. Unhorsing the Knights of Labor (cont.)

- The skilled labor sought refuge in the American Federation of Labor:
 - A federation of exclusively skilled craft unions.
- The desertion of the skilled craft unionists dealt the Knights a body blow:
 - By 1890s they melted down to 100,000 members who gradually fused with other protest groups.







XX. The AF of L to the Fore

- The elitist **American Federation of Labor:** 1886
 - Largely the brainchild of Samuel Gompers
 - He was pressed into overtime service because of his voice
 - He was elected president of AF of L every year except one from 1886 to 1924
 - The American Federation of Labor was—a federation:
 - It consisted of an association of self-governing national unions
 - Each of which kept its independence, with the AF of L unifying overall strategy
 - No individual laborer could join the central organization.

- Gompers adopted a down-to-earth approach:
 - Trying to soft-pedal attempts to engineer sweeping social reform
 - Bitter foe of socialism, he shunned politics for economic strategies and goals
 - Had no quarrel with capitalism:
 - But demanded a fairer share for labor
 - All he wanted, he said, was "more."
 - Promoted what he called a "pure and simple" unionism
 - Sought better wages, hours, and working conditions.

- He was not concerned with the sweet by-and-by, but with the bitter here and now
- One of his major goals was the "trade agreement" authorizing the closed shop—
 - Of all-union labor.
- His chief weapons were the walkout and the boycott.
- The AF of L was established on solid but narrow ground:
 - It fell short of being representative of them
 - Composed of skilled craftsmen—carpenters and bricklayers:
 - It was willing to let unskilled laborers, including women and blacks, fend for themselves.

- It weathered the panic of 1893
- By 1900 a membership of 5000,000
- Critics referred to it, with questionable accuracy, as "the labor trust."
- Labor conditions:
 - Labor disorders continued, peppering a total of over 23,000 strikes 1881-1900
 - Disturbances involved 6,610,000 workers, with a total loss to both employers and employees of \$450 million
 - The strikers lost about half of their strikes and won or compromised the remainder.

- The gravest weakness of organized labor was that it still embraced only a small minority of all working-people—about 3% in 1900.
- Attitude toward labor was changing:
 - The public was conceding the right of workers to organize
 - To bargain collectively and to strike
 - Labor Day was made a holiday by act of Congress 1894
 - Enlightened industrialists saw the wisdom of bargaining with the unions and signing agreements.

- Vast majority of workers continued to fight organized labor
- Nothing was handed to the unions on a silver platter
- Management still held the whip hand
- Time would be taken before labor was to gain a position of relative equality with capital.
- If the age of big business had dawned, the age of big labor was still some distance over the horizon.

