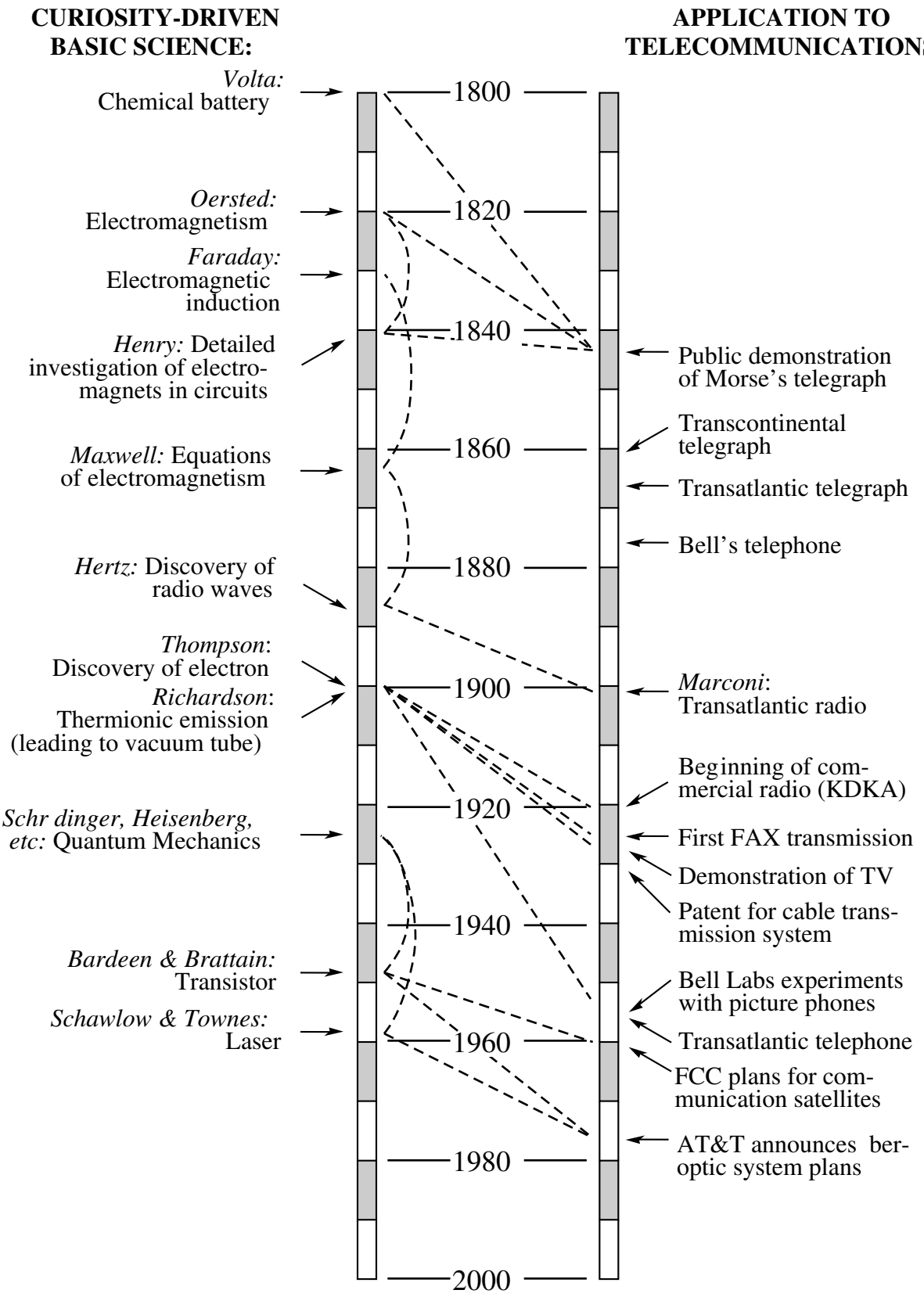
CURIOSITY-DRIVEN BASIC SCIENCE:
APPLICATION TO TELECOMMUNICATIONS:
Volta: Chemical battery
Oersted: Electromagnetism
Faraday: Electromagnetic induction
Henry: Detailed investigation of electro-magnets in circuits
Maxwell: Equations of electromagnetism
Hertz: Discovery of radio waves
Thompson: Discovery of electron
Richardson: Thermionic emission (leading to vacuum tube)
Schr dinger, Heisenberg, etc: Quantum Mechanics
Bardeen & Brattain: Transistor
Schawlow & Townes: Laser
1800
1820
1840
1860
1880
1900
1920
1940
1960
1980
2000
Public demonstration of Morse's telegraph
Transcontinental telegraph
Transatlantic telegraph
Bell's telephone
Marconi: Transatlantic radio
Beginning of com-mercial radio (KDKA)
First FAX transmission
Demonstration of TV
Patent for cable trans-mission system
Bell Labs experiments with picture phones
Transatlantic telephone
FCC plans for com-munication satellites
AT&T announces ber-optic system plans