

# Heat transfer scientists short genealogy

## Convection



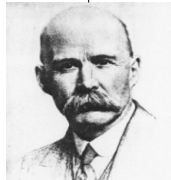
**Newton (1643-1727)**  
Cooling law (convective heat transfer)



**Reynolds (1842-1912)**  
Flow transition regime



**Rayleigh (1842-1919)**  
Natural convection



**Stanton (1865-1931)**  
Fluid flow and friction



**Nusselt (1882-1957)**  
Similarity parameters in heat transfer



**Prandtl (1875-1953)**  
Boundary layer theory



**Colburn (1904-1955)**  
Analogies between heat and momentum transport

## Conduction



**Laplace (1749-1827)**  
Spherical harmonics



**Biot (1774-1862)**  
Analysis of heat conduction



**Fourier (1768-1830)**  
Mathematical theory of heat conduction

## Radiation



**Stefan (1835-1893)**



**Boltzmann (1844-1906)**

Black body radiation power (Stefan-Boltzmann law)



**Planck (1858-1947)**  
Spectral density of thermal radiation (black body)