

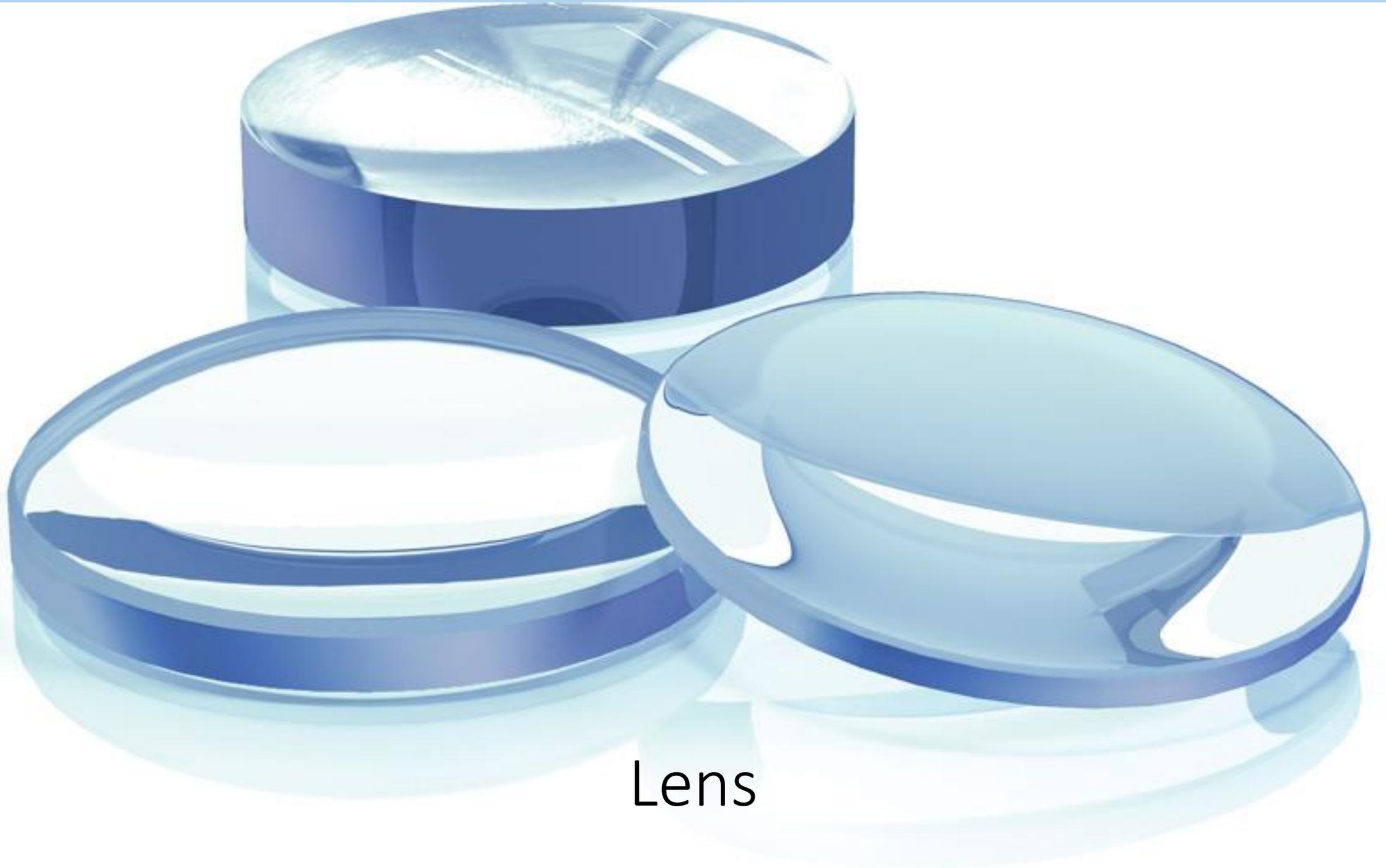
Microscopes

History and Developments

Sarah Kuehn

Biology 4270

April 2nd, 2018

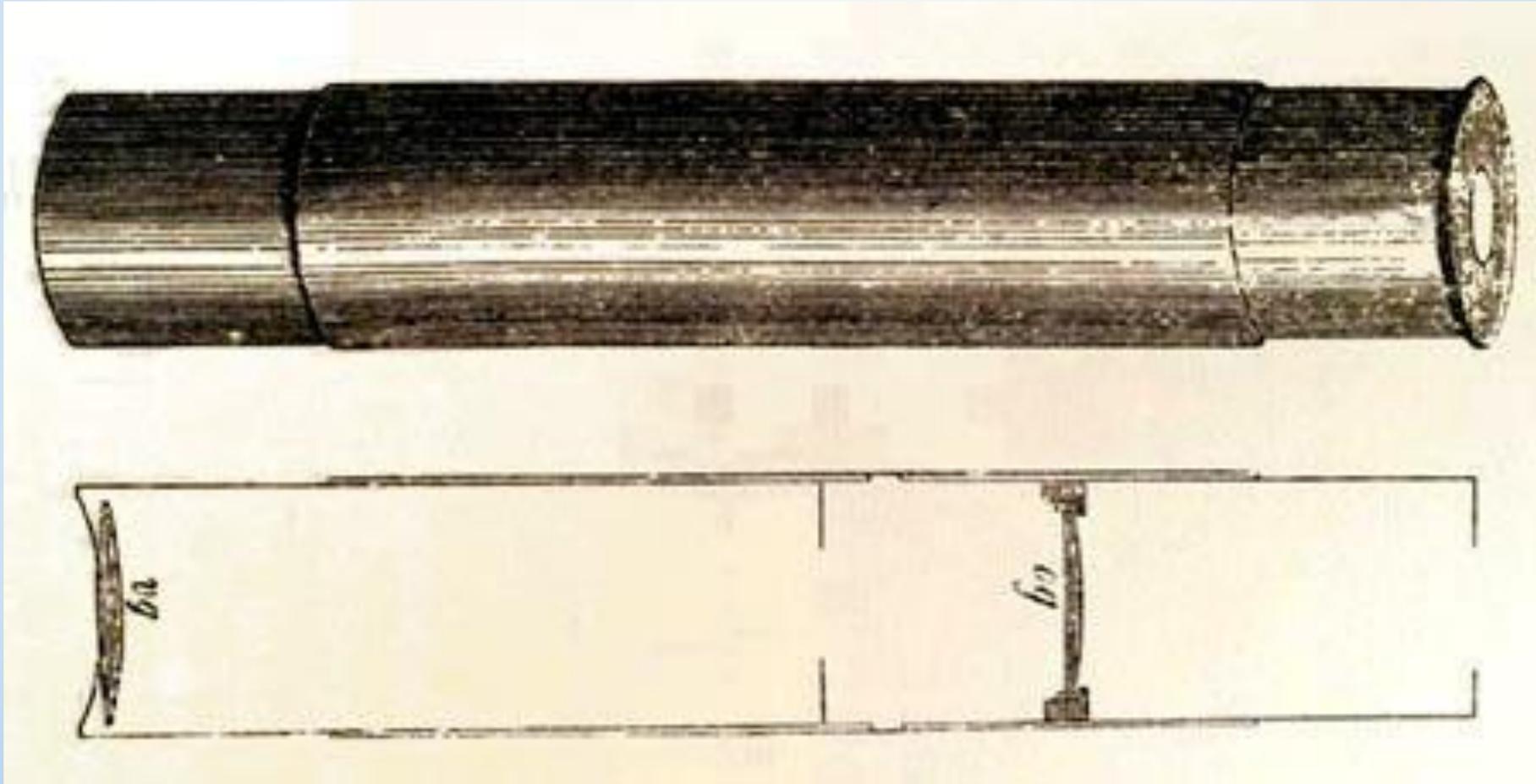


Lens

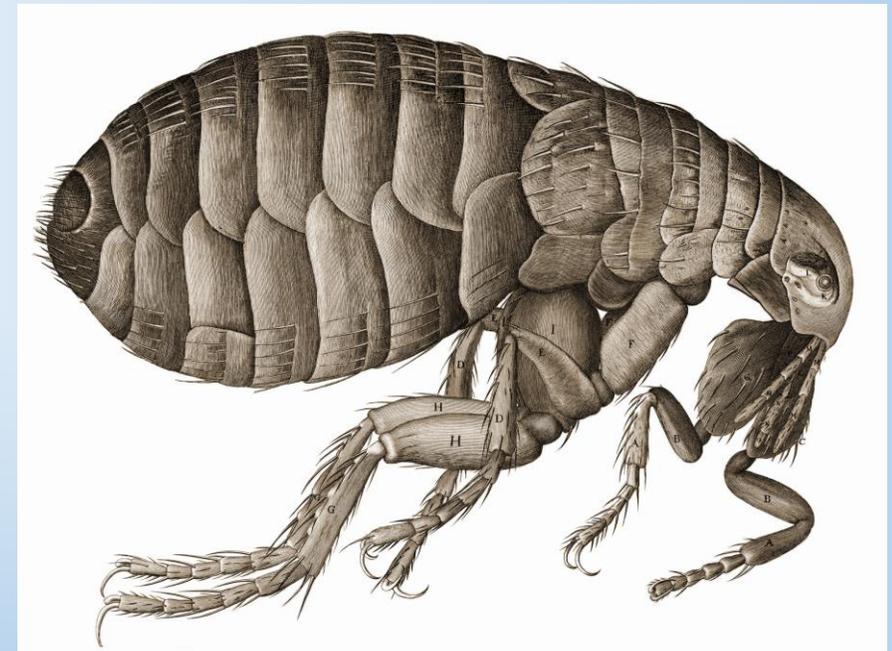
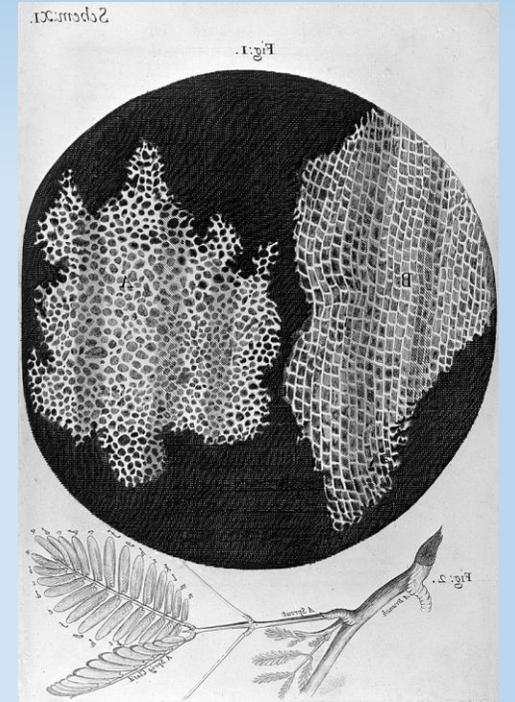
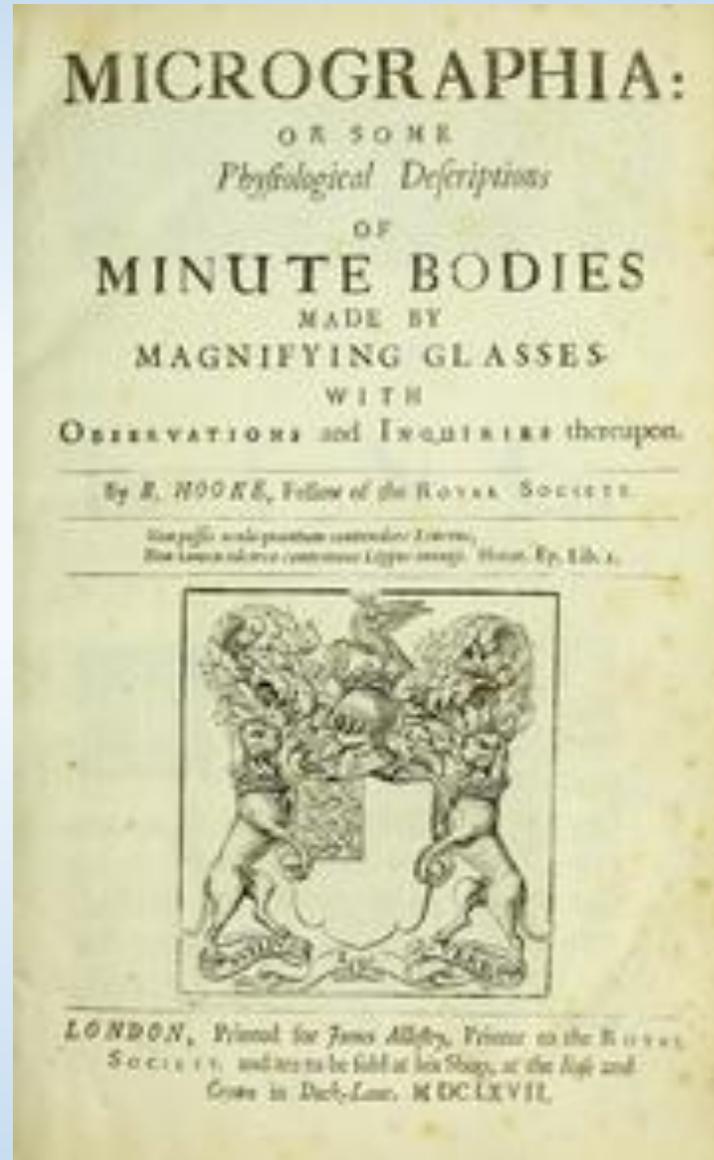


Zacharias Janssen

Jassen Microscope 1595



Robert Hooke 1665



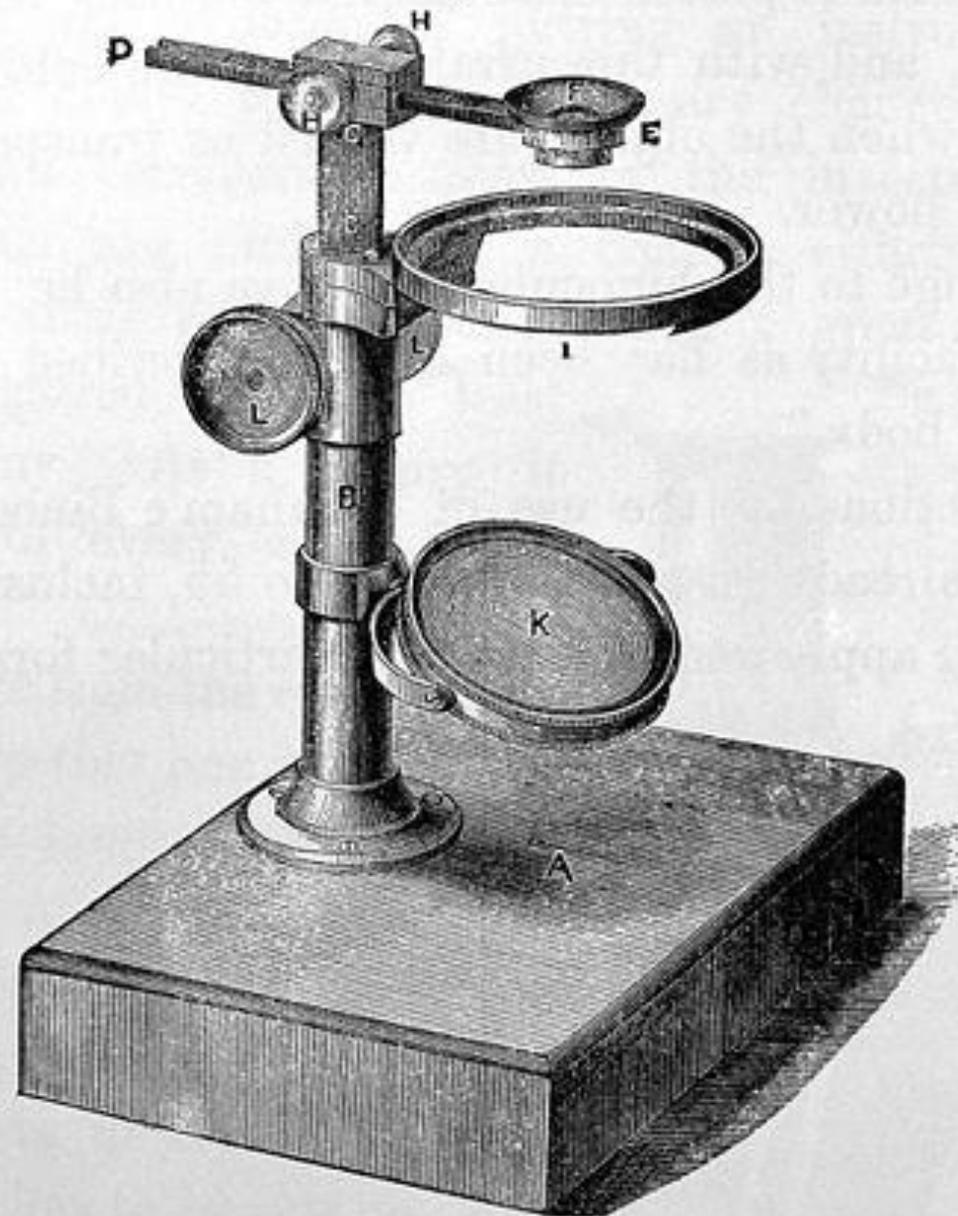


Anton Van Leeuwenhoek

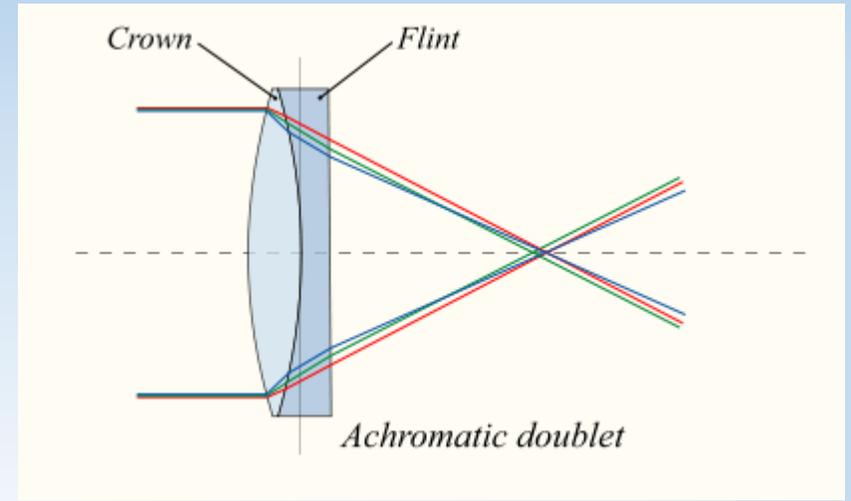
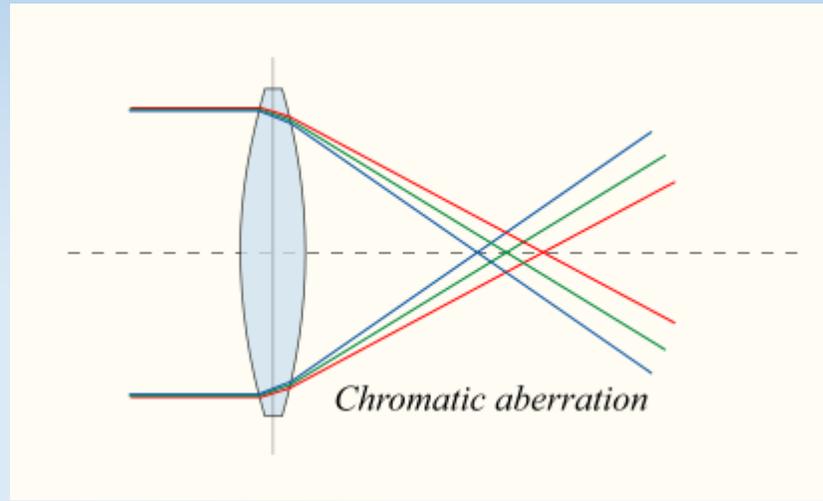
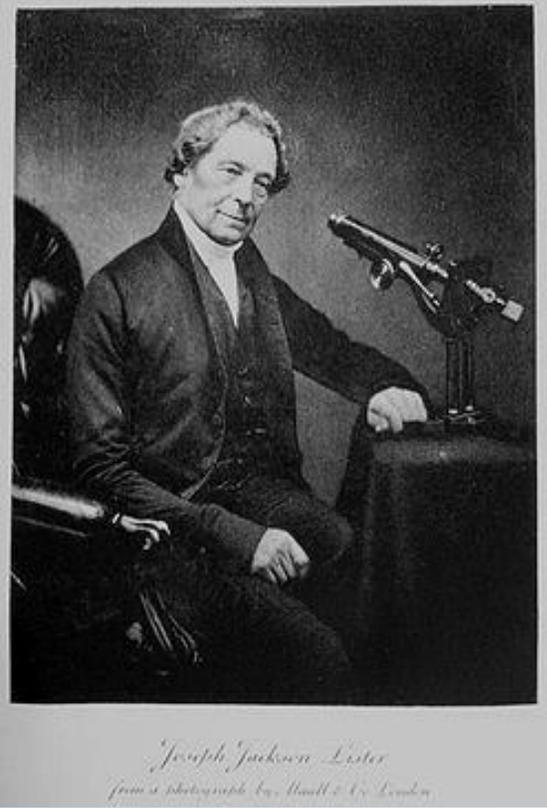
Van Leeuwenhoek Microscope 1674



Fig. 46.

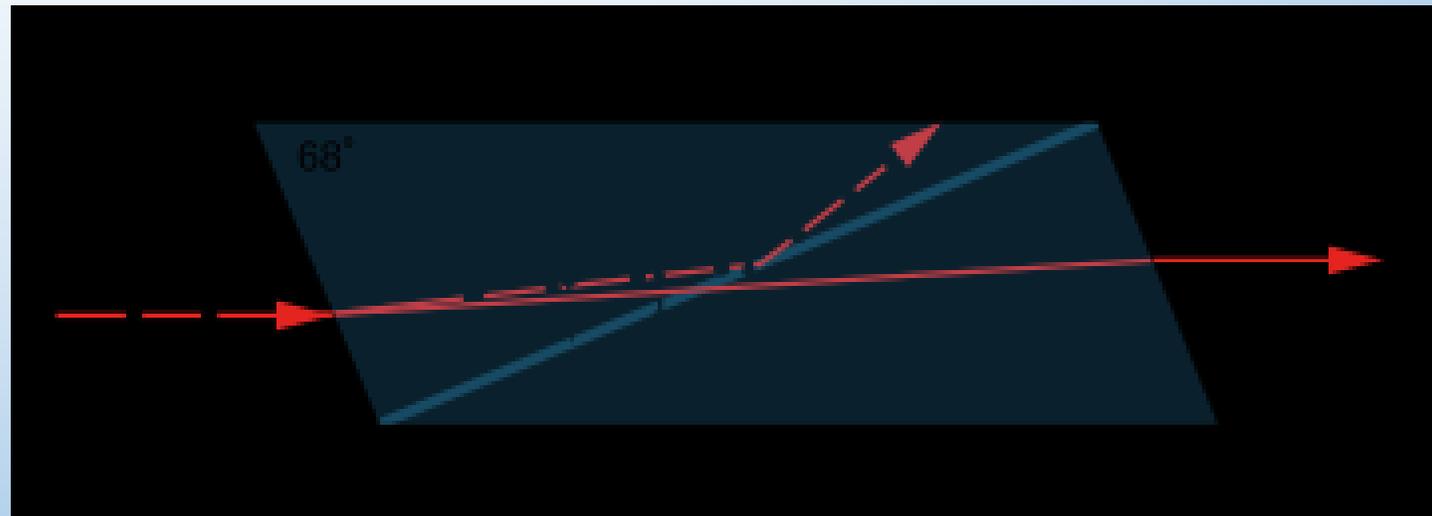


$\frac{1}{3}$ rd size.



Joseph Jackson Lister 1826

William Nicol 1828



1850



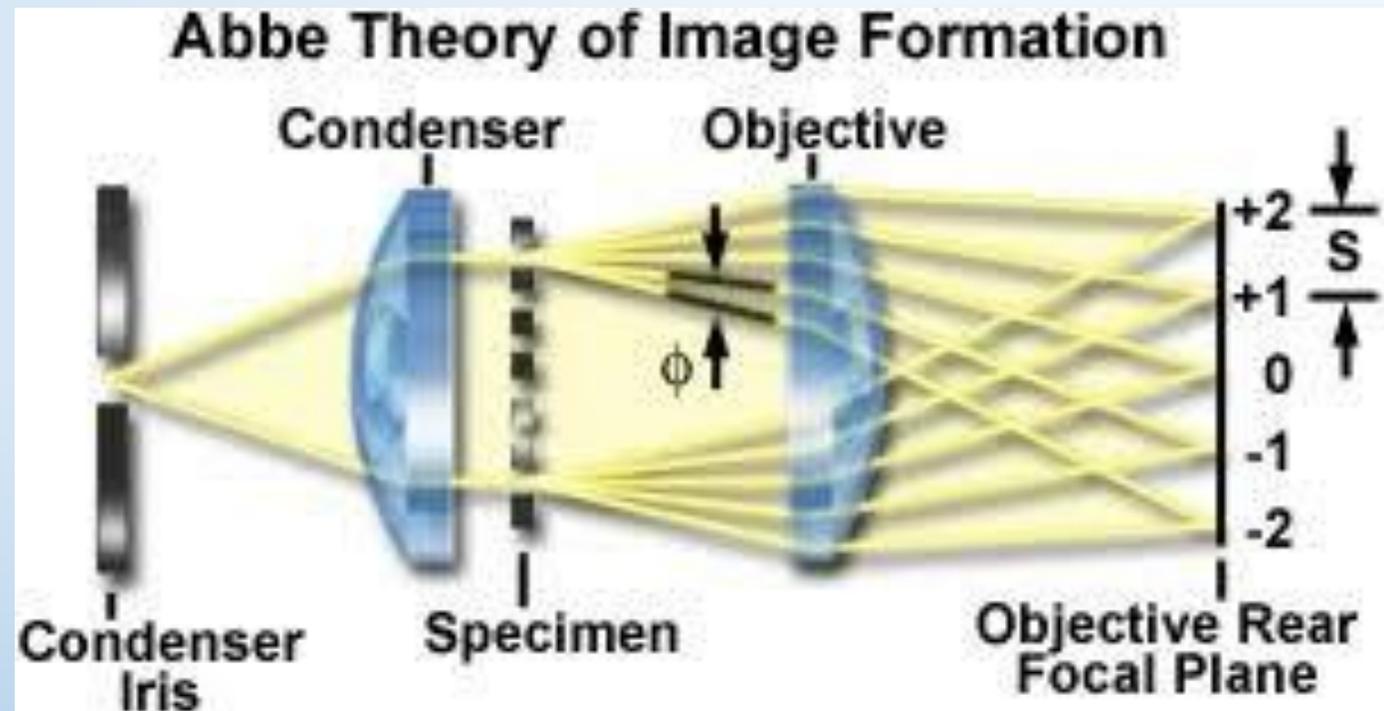
1863



Ernst Abbe



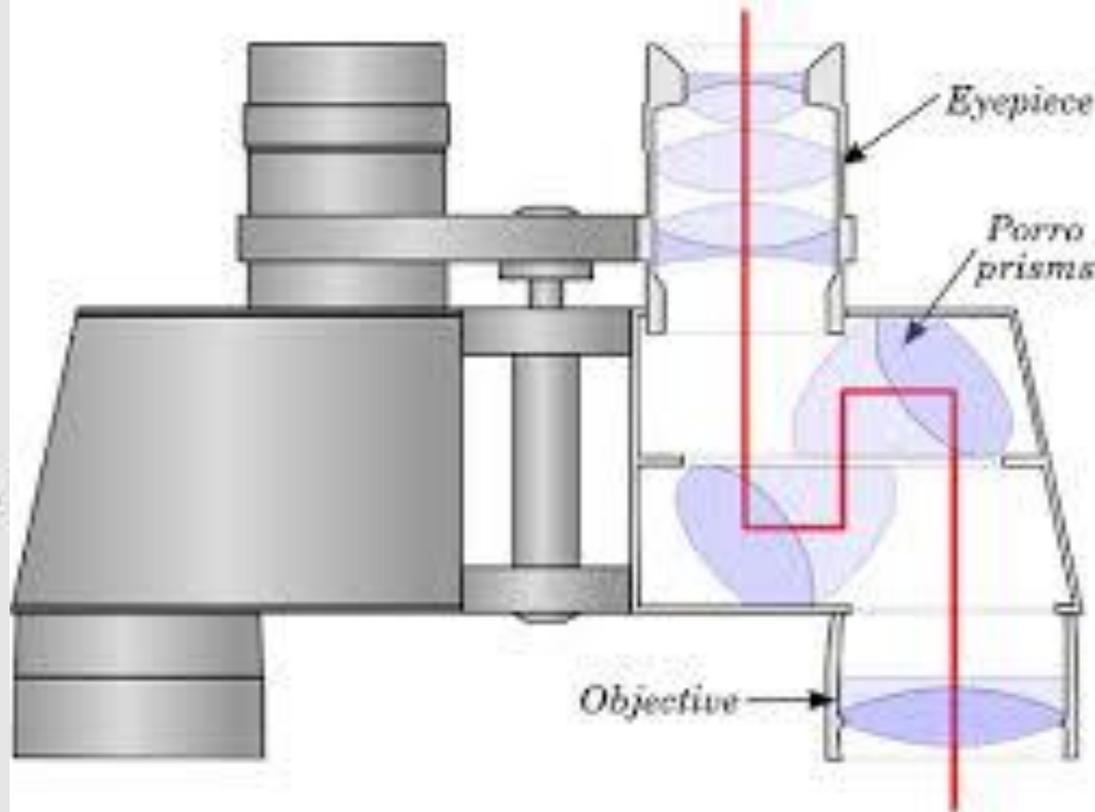
Abbe Sine Condition
1874



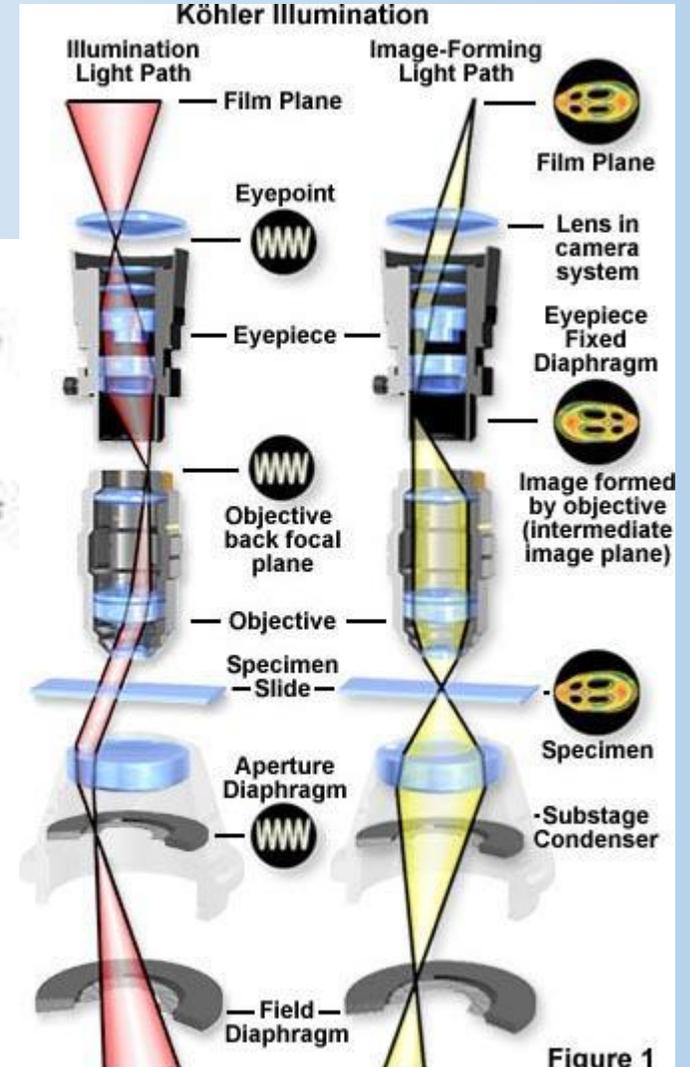
Stereo Microscope 1886



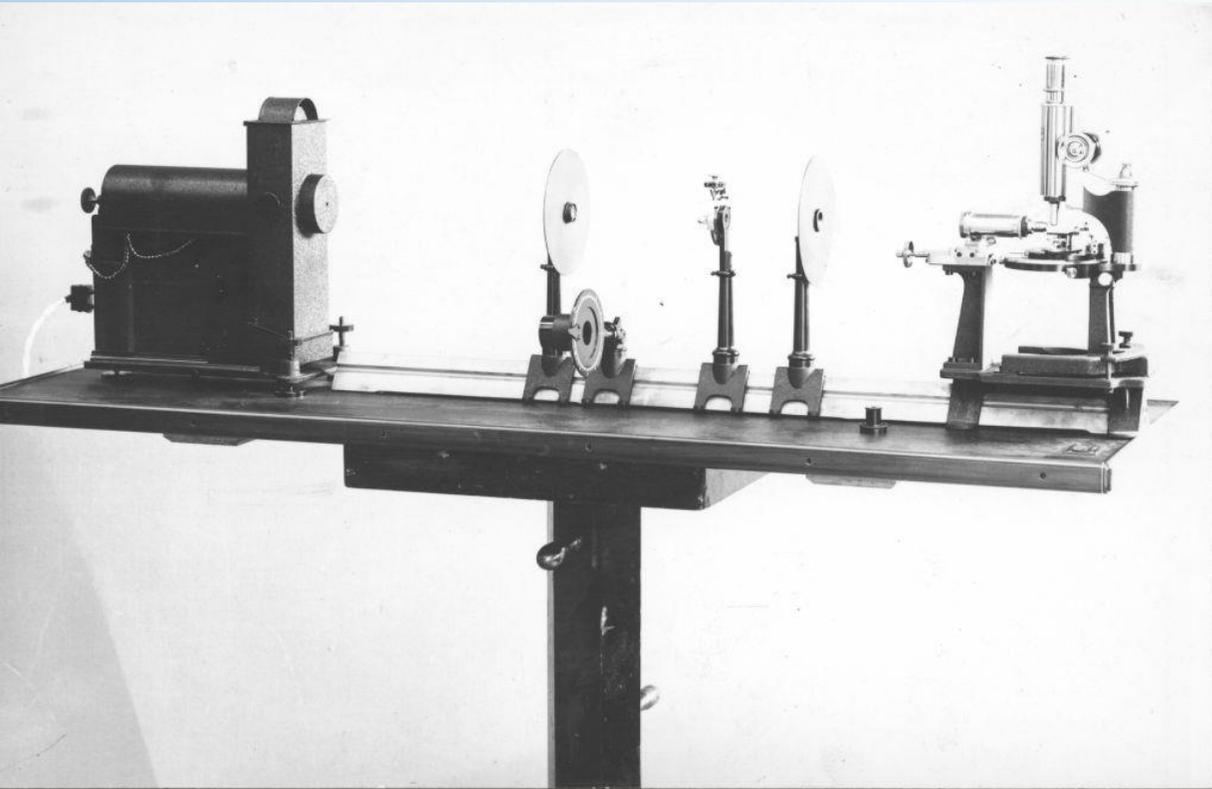
Porro Prism



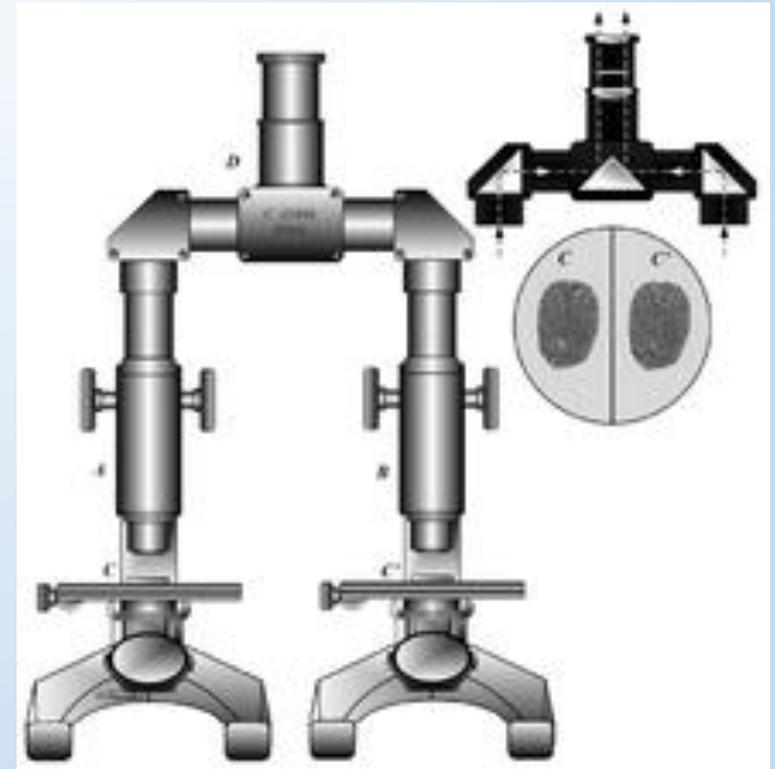
Köhler Illumination 1893



20th CENTURY DEVELOPMENTS



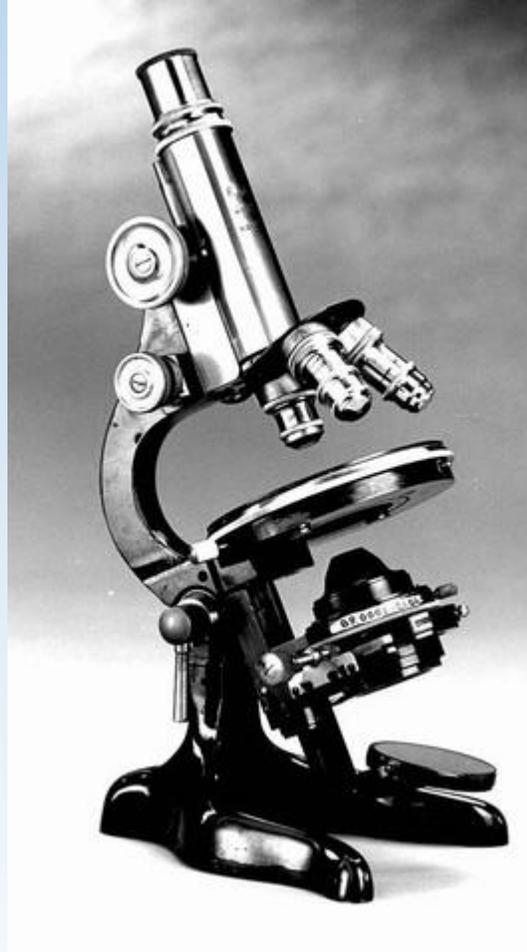
1903



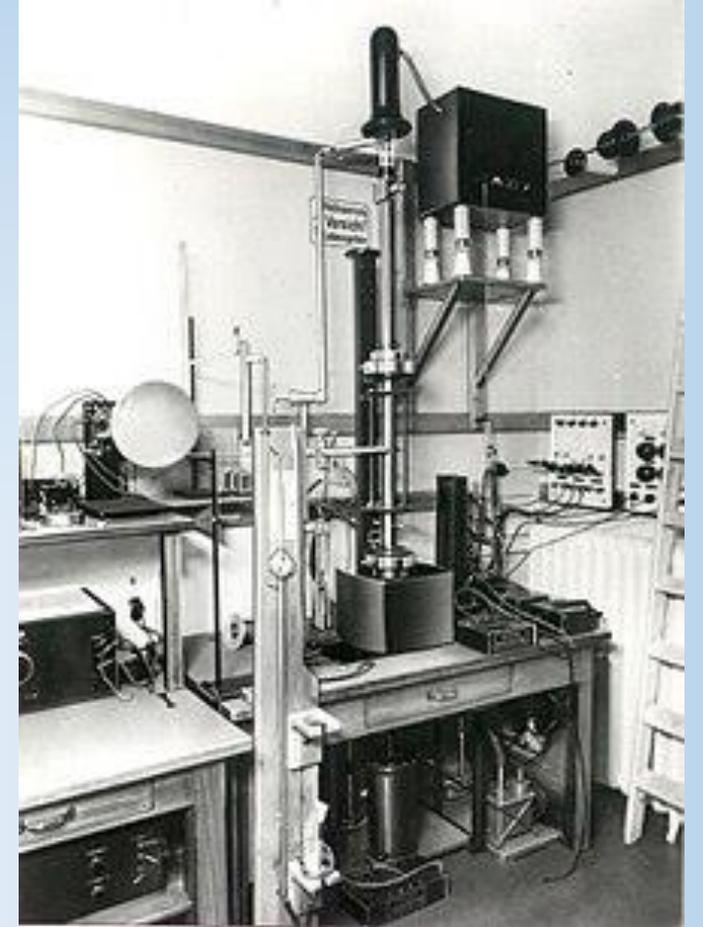
1928



1931



1932



1935

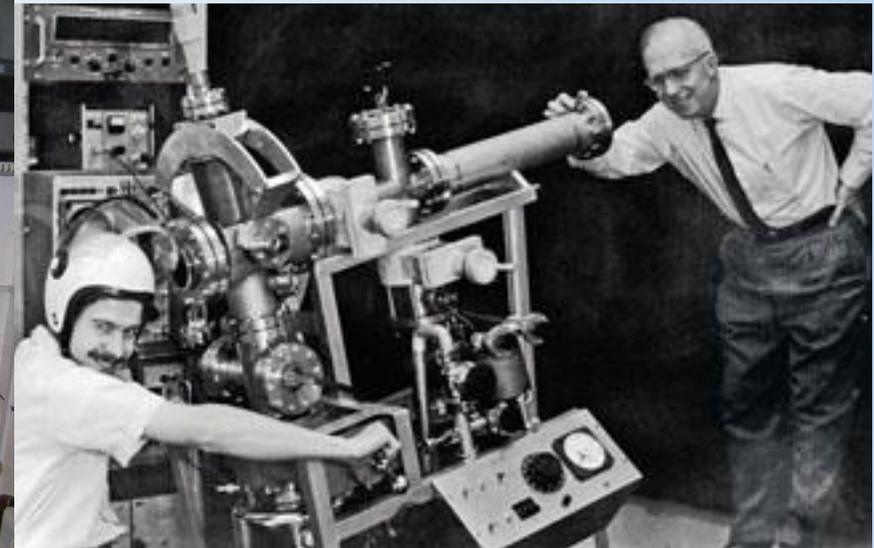
1936

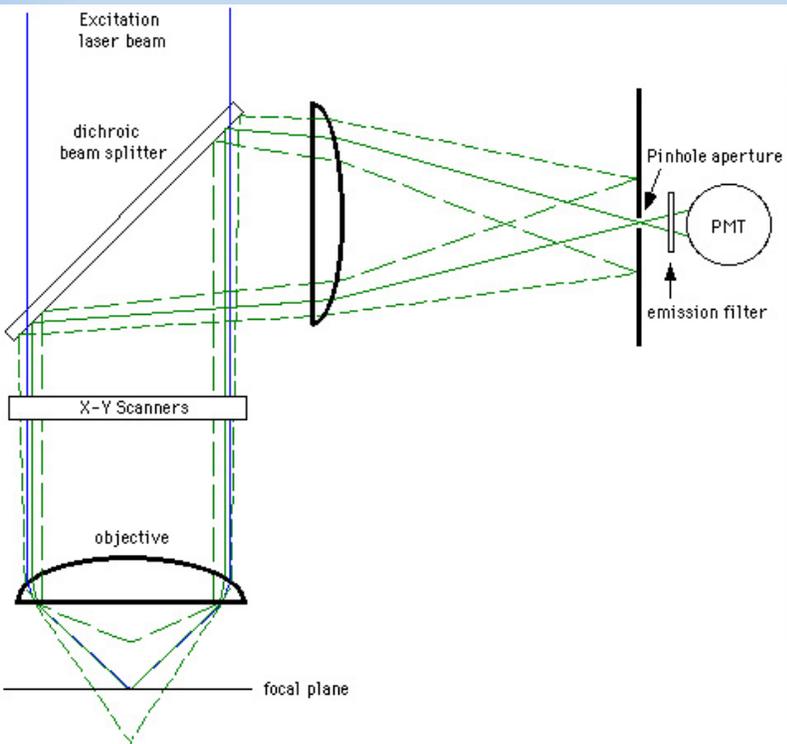


1948



1951





1957

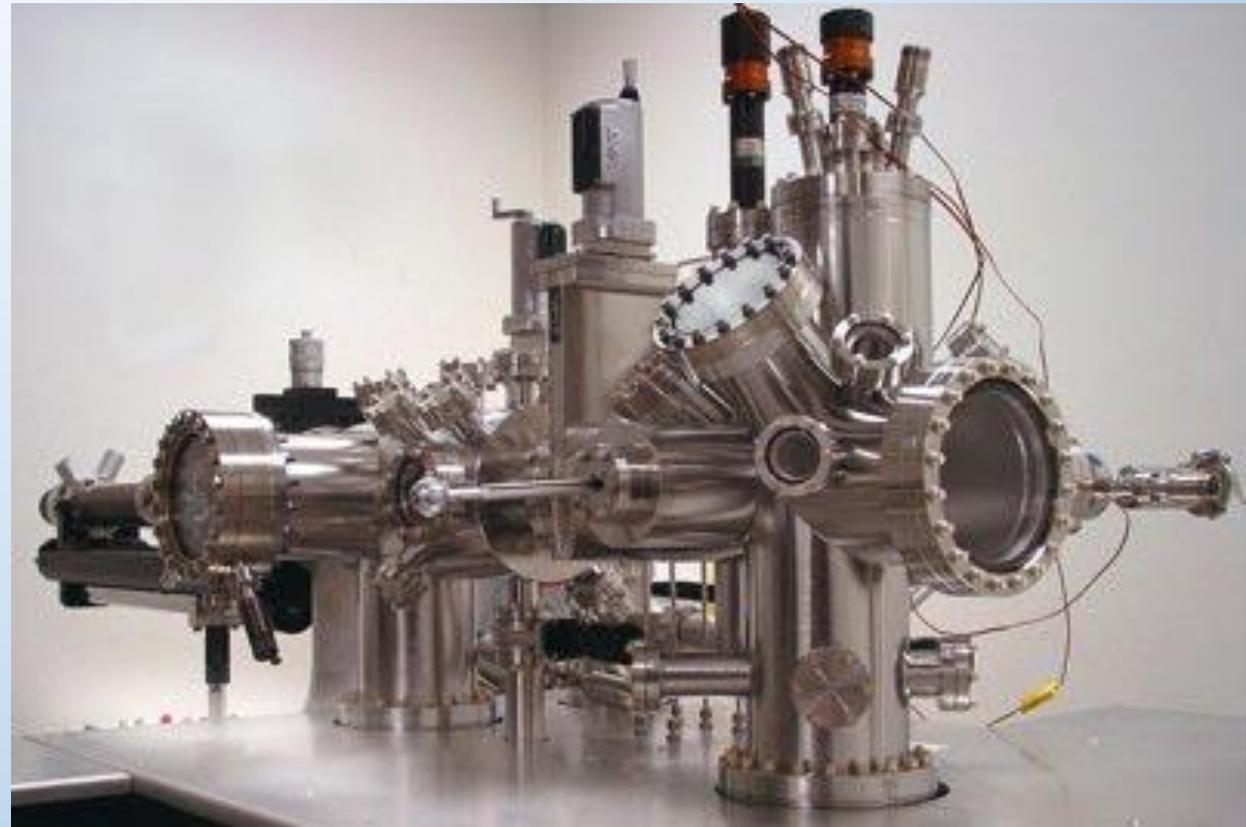
1967

1968

1978



1981

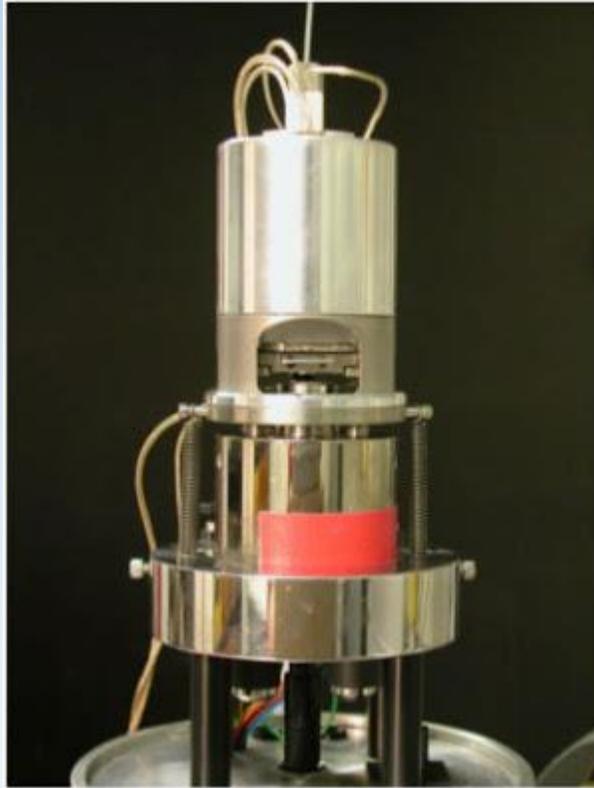


Digital Microscopes 1986





1988



1991



2014

Conclusion

SCIENCE

VS.

TECHNOLOGY

BOTH?