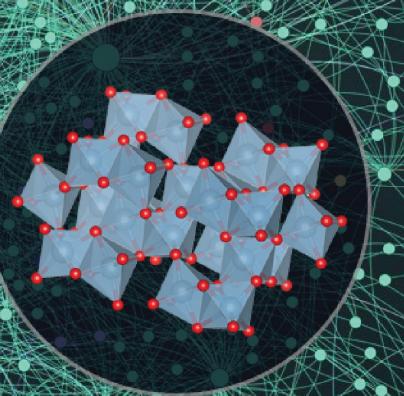
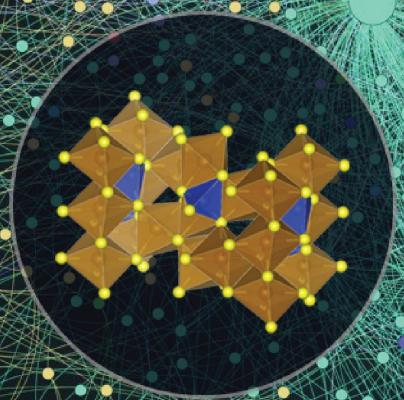
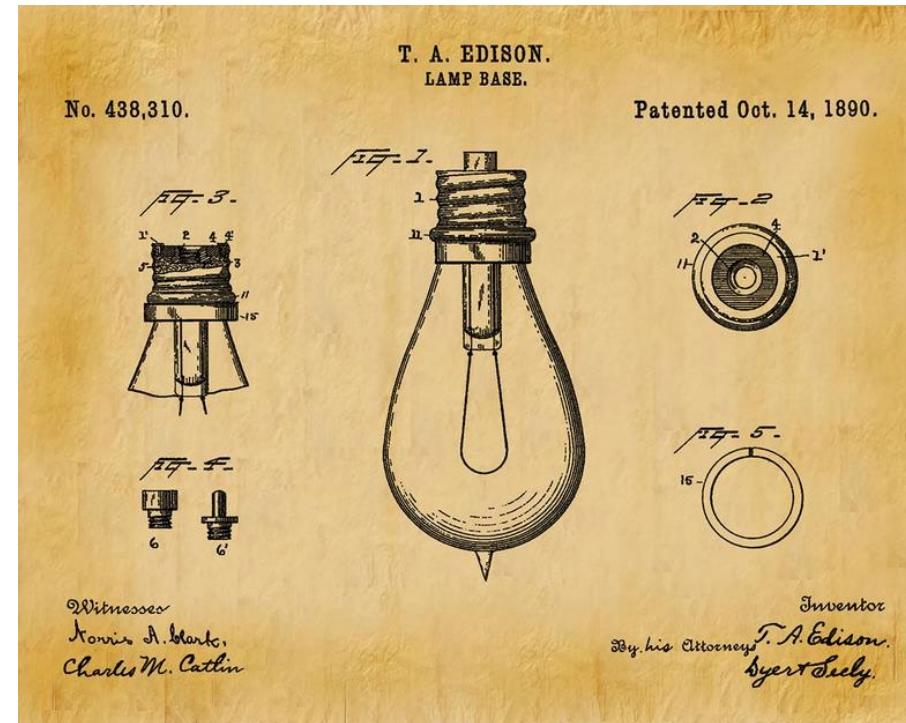
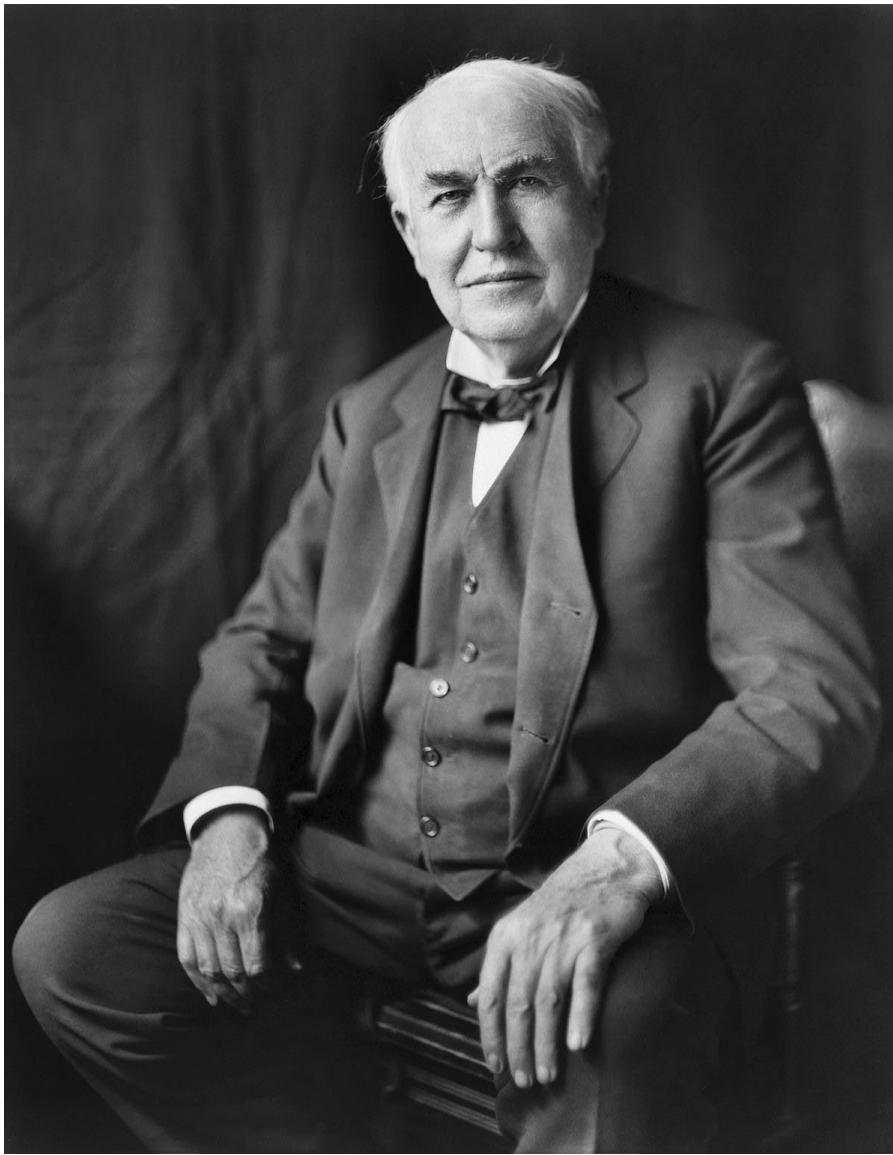


How are materials discovered?



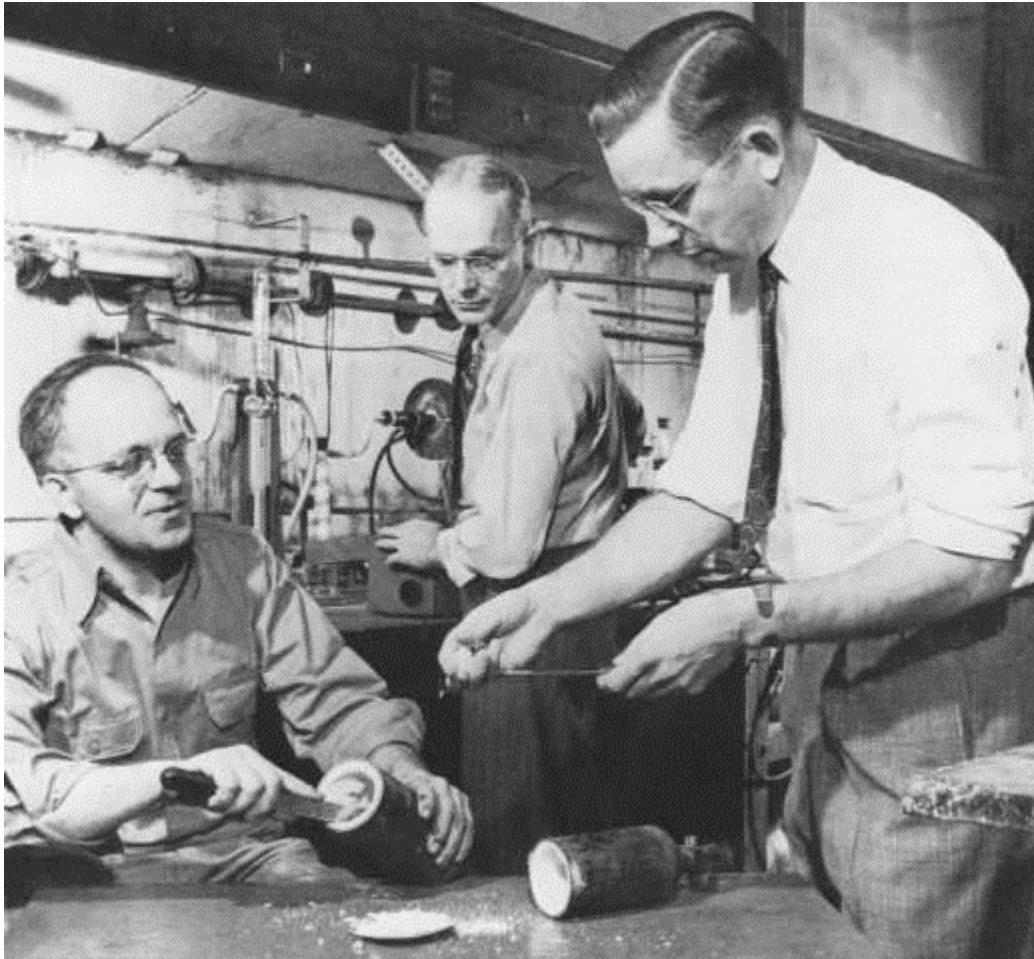


Some discoveries are “1% inspiration, 99% perspiration”





Some require being in the right place at the right time





Some inspiration can come from nature



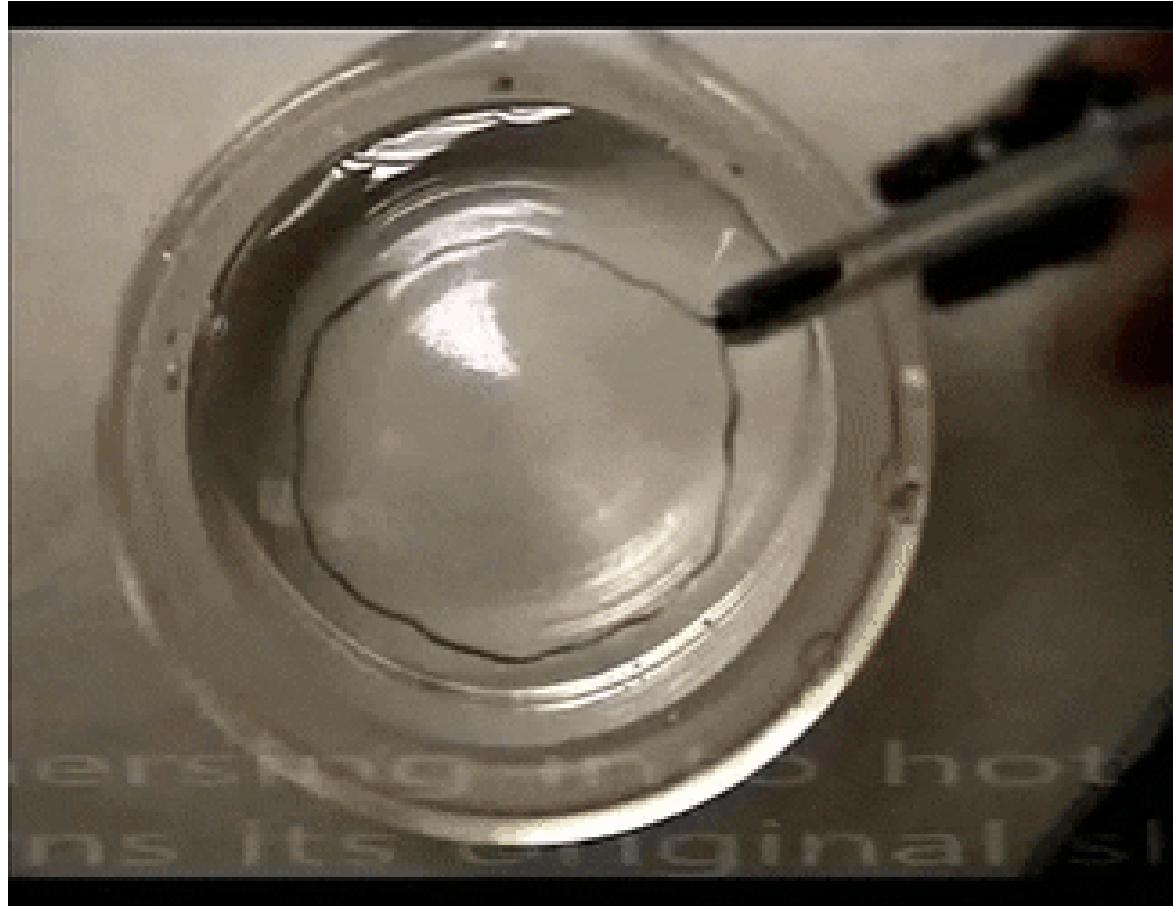


Some discoveries require a keen eye for detail





Some discoveries require a keen eye ear for detail





Some discoveries come from clumsy mistakes



**"The temperature gauge was stuck on 900 degrees,
and I thought I had ruined the furnace ...**

I grabbed some tongs to get it out as fast as I could,
but the glass slipped out of the tongs and fell to the floor.

The thing bounced and didn't break."

Donald Stookey (1915-2014)

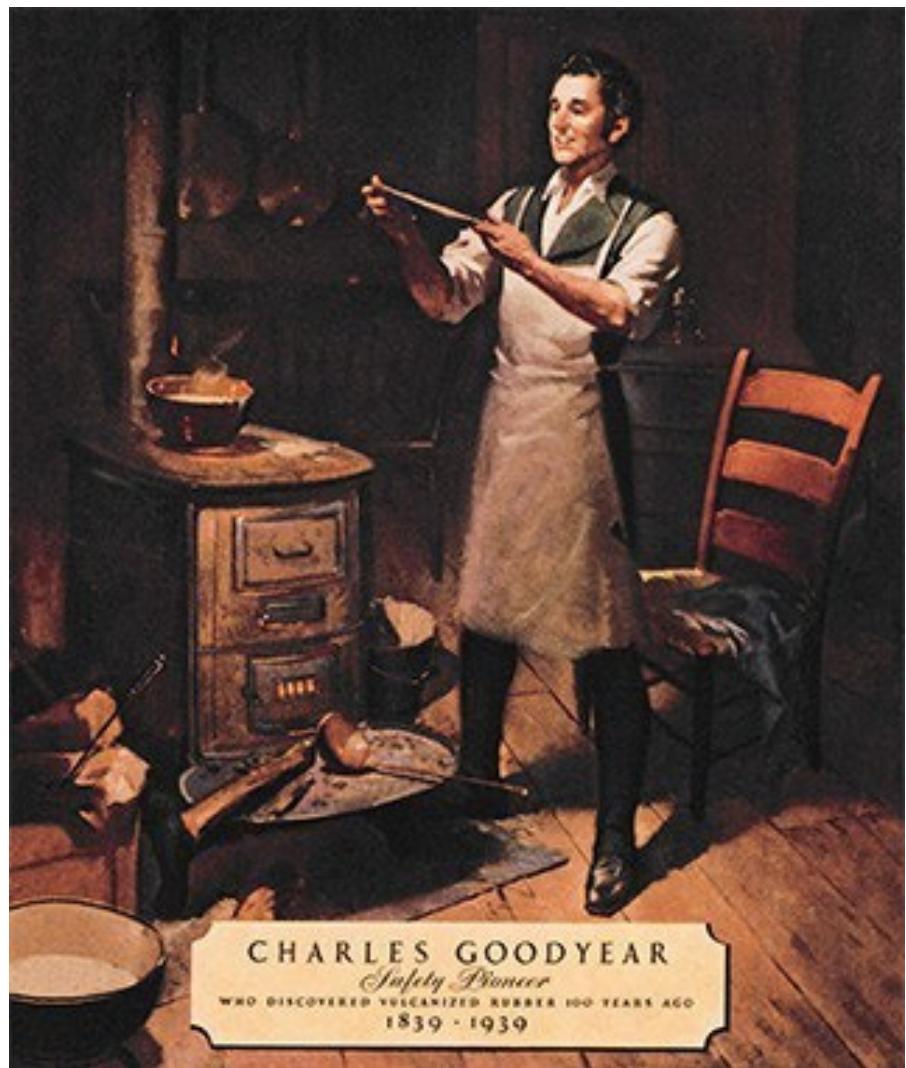


Some discoveries result from totally unsafe lab practices





Some discoveries require mistakes



Machine Learning

vs

Materials Informatics