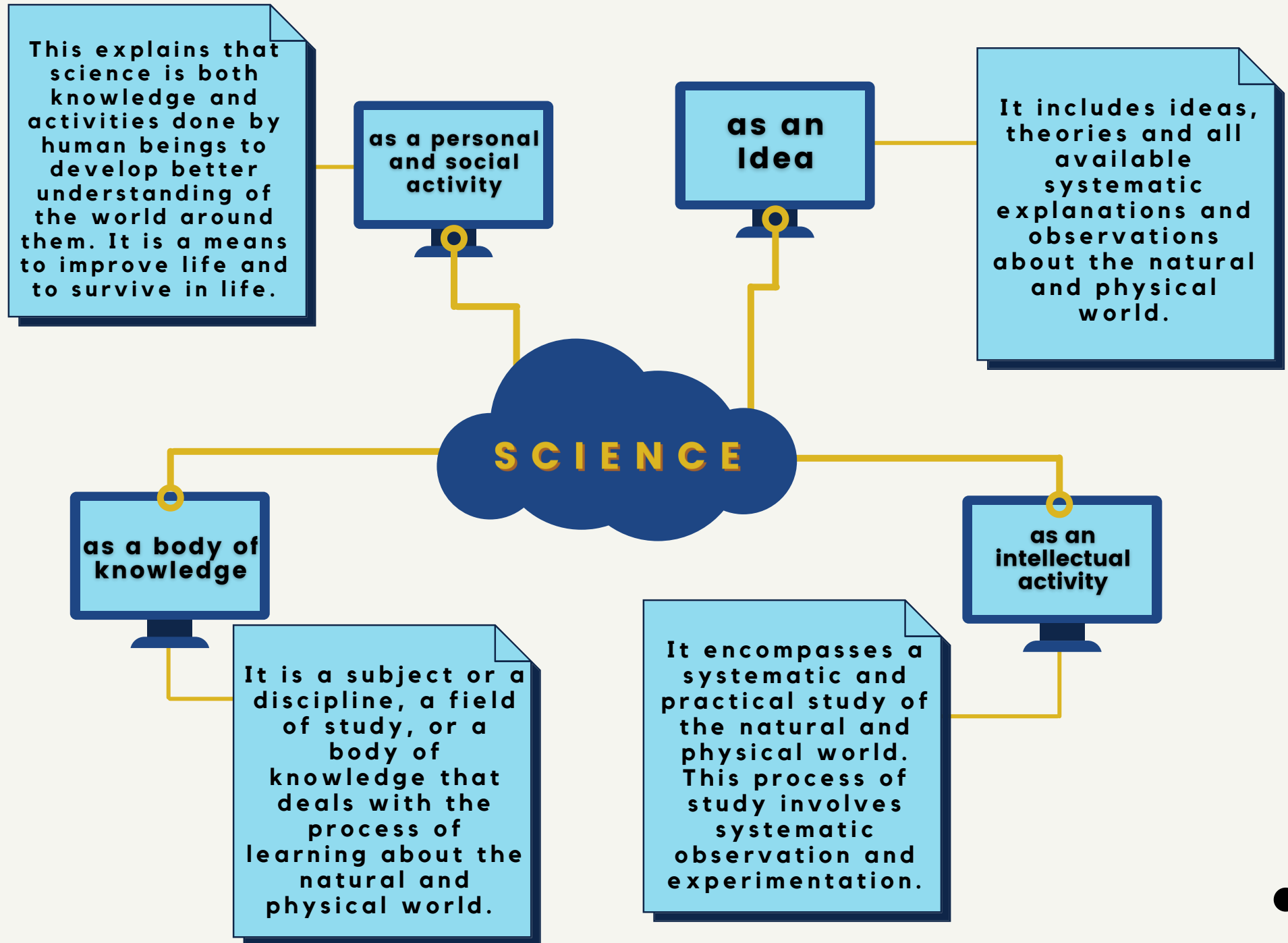


A stylized illustration of a mountain range in yellow, with peaks and ridges. The mountains are positioned behind the main title text, with some peaks appearing to rise above the letters.

# **INTELLECTUAL REVOLUTIONS THAT DEFINED SOCIETY**

SCIENCE, TECHNOLOGY, AND SOCIETY


EARL DAVID Q. ONG / BSCS-I



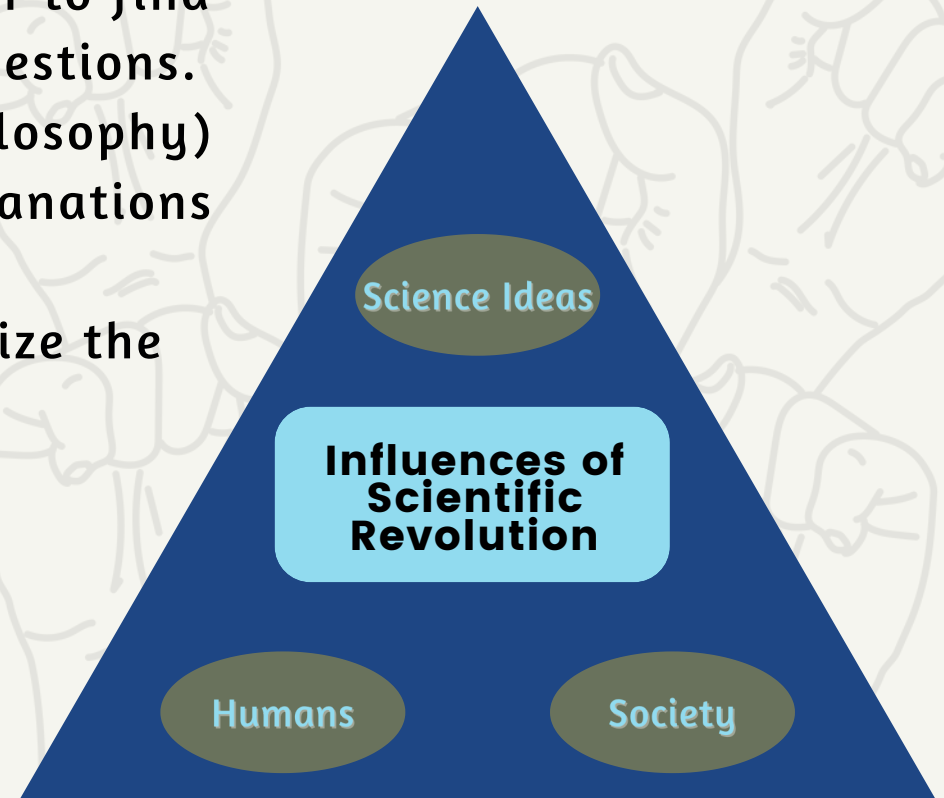
# SCIENTIFIC REVOLUTION

Human beings have embarked in scientific activities to know and understand everything around them.

1. They have persistently observed and studied the natural and physical world in order to find meaning and seek answers to many questions.
2. They have developed noble ideas (philosophy) to provide alternative or possible explanations to certain phenomena.
3. Humans also used religion to rationalize the origins of life and all lifeless forms.



The idea of **Scientific Revolution** is claimed to have started in the early 16th century up to the 18th century in Europe.

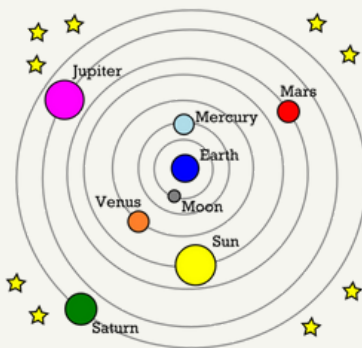


# DESCRIPTIONS OF THE UNIVERSE

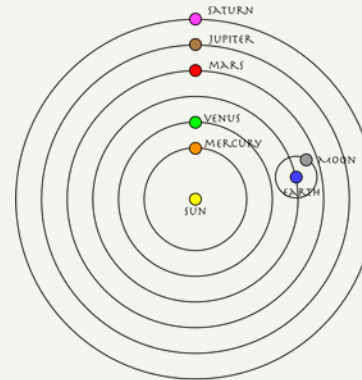
**Nicolaus Copernicus** was a Polish astronomer known as the father of modern astronomy. He was the first modern European scientist to propose that Earth and other planets revolve around the sun, or the **Heliocentric Theory** of the universe.



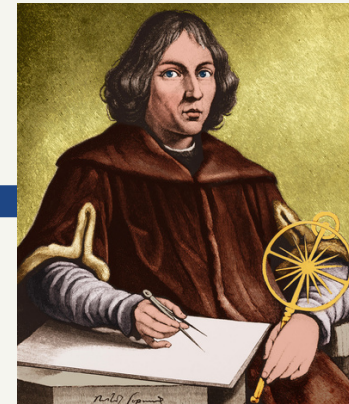
ALEXANDRIAN ASTRONOMER AND  
MATHEMATICIAN **PTOLEMY**



PTOLEMAIC SYSTEM, ALSO CALLED  
GEOCENTRIC SYSTEM OR GEOCENTRIC  
MODEL



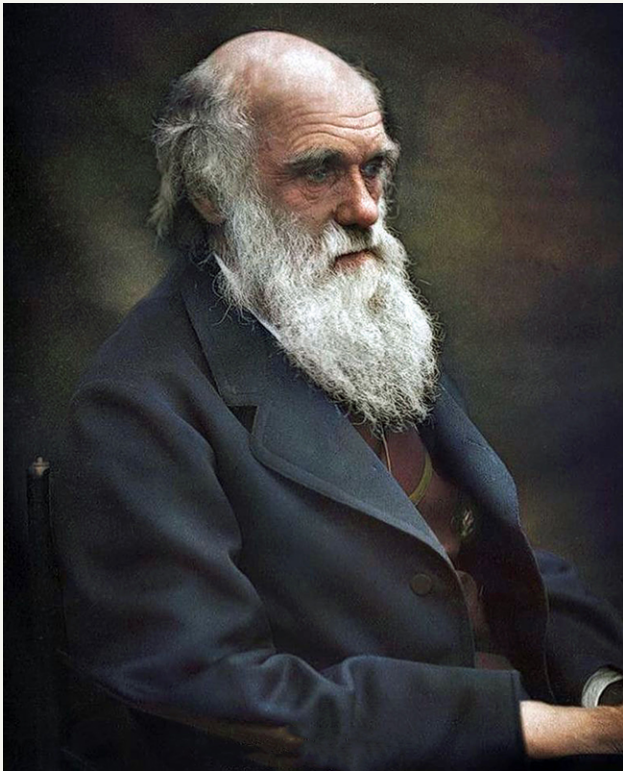
HELIOCENTRIC SYSTEM, AKA COPERNICAN  
HELIOCENTRISM



POLISH ASTRONOMER AND THE FATHER OF  
MODERN ASTRONOMY **NICOLAUS COPERNICUS**

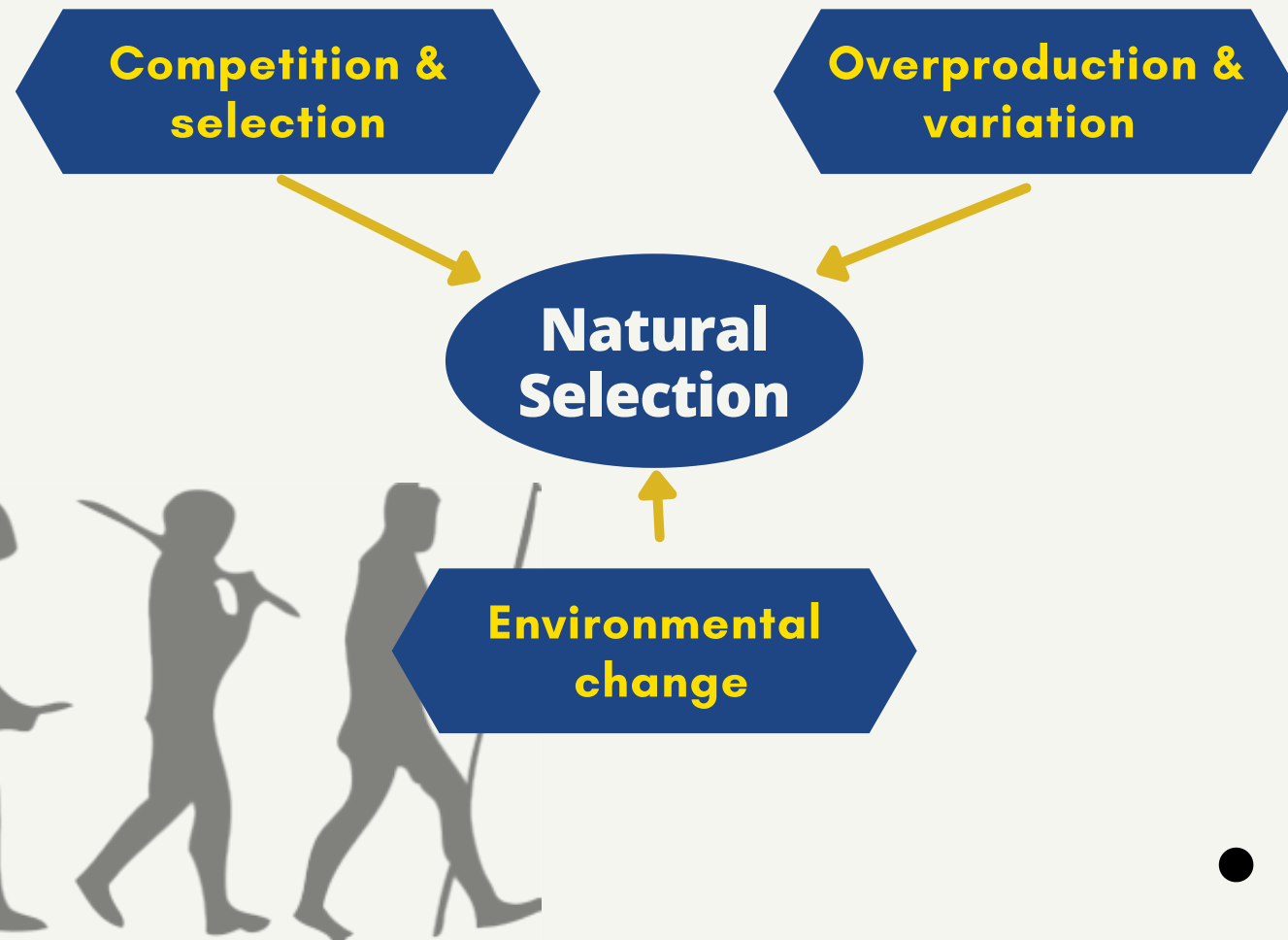
**Ptolemaic system**, also called **geocentric system** or **geocentric model**, mathematical model of the universe formulated by the Alexandrian astronomer and mathematician Ptolemy about 150 CE and recorded by him in his *Almagest* and *Planetary Hypotheses*.

# THEORY OF EVOLUTION



ENGLISH NATURALIST, GEOLOGIST, AND  
BIOLOGIST CHARLES DARWIN

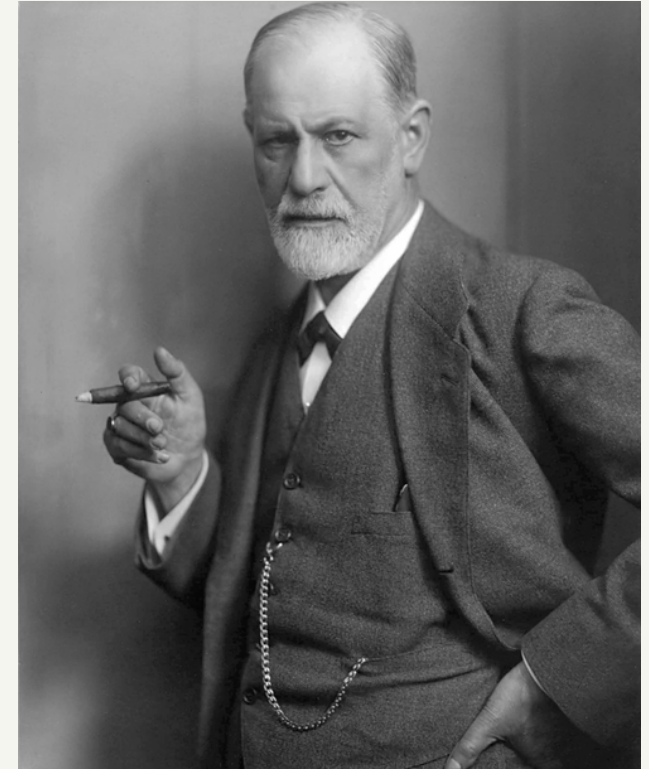
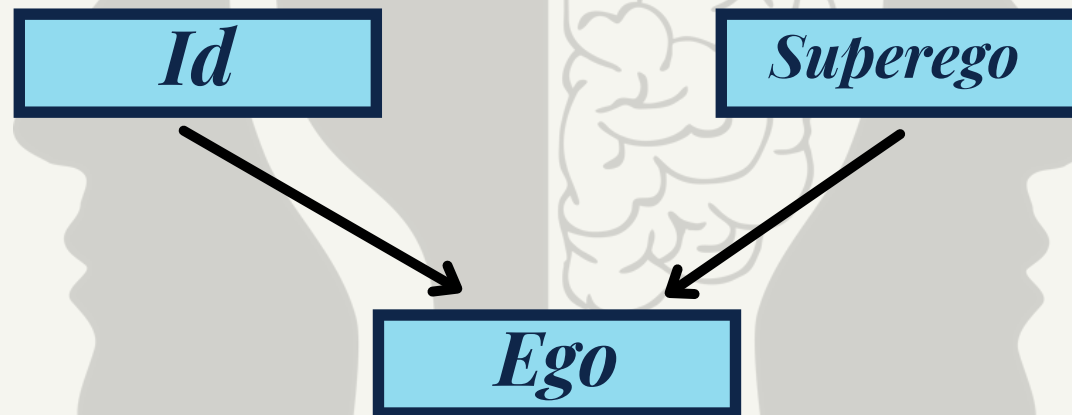
In 1859, Darwin published *On the Origin of Species by Means of Natural Selection*, presenting a strong, logical explanation of descent with modification, evolution by the mechanism of natural selection



# PSYCHOANALYTIC THEORY OF PERSONALITY

This structural theory of personality places great importance on how conflicts among the parts of the mind shape behavior and personality. These conflicts are mostly unconscious. This argues that human behavior is the result of the interactions among three component parts of the mind: id, ego and superego.

## CONFLICTS WITHIN THE MIND



SIGMUND FREUD, AN AUSTRIAN NEUROLOGIST  
AND THE FOUNDER OF PSYCHOANALYSIS

# PSYCHOSEXUAL STAGE OF CHILDREN

During the five psychosexual stages, which are the oral, anal, phallic, latent, and genital stages, the erogenous zone associated with each stage serves as a source of pleasure. The psychosexual energy, or libido, was described as the driving force behind behavior.

## ORAL STAGE

Birth to 2 years  
Pleasure from oral stimulation

## ANAL STAGE

15 months to 3 years  
Primary focus on controlling bladder and bowels

## PHALLIC STAGE

3 to 6 years  
Primary focus is on genitals

## LATENCY STAGE

6 to puberty  
Sexual desires pushed to background

## GENITAL STAGE

Puberty through Adulthood  
Sexual desires renewed - seek relationships w others

