I would like to personally thank you for watching the Origins television program. This show was special, near to the heart of my parents, Russ and Norma Bixler.

I trust that the information in this presentation will be helpful in your study of creation science. Thank you for your prayerful and financial support of Origins... you’re making the television production of this program possible!

Also available now a legacy website dedicated to my parents at russandnormabixler.com.

Paul R. Bixler
Producer/Editor
Now faith is confidence in what we hope for and assurance about what we do not see.

-Hebrews 11:1

Greetings and welcome to the Russ and Norma Bixler legacy website. Our family trusts that your visit today will provide strength, hope and encouragement to you.

RUSSANDNORMABIXLER.COM
TYPES OF GEOLOGICAL DATING

Relative dating—older/younger compared to something else
- No numerical dates
- Mostly fossils and rock positions

Radiometric dating—gives ages in thousands/millions of years
- Uses decay of radioactive materials
- Ex: Carbon-14, Uranium
The geologic timescale was established based on patterns of fossils in stacked rock assemblages.
RELATIVE DATING

• Placing rocks in sequence
• Basic rules:
  • Original horizontality
  • Superposition
  • Cross-cutting relationships

Nico Steno
USING THE RULES TO TRACE ROCKS
SO HOW ARE ROCKS DATED?

The geologic timescale was established based on patterns of fossils in stacked rock assemblages.
Creation Week
Post-Flood world

Present

Flood Rocks
Proterozoic
Paleozoic
Mesozoic
Cenozoic
Deep Geologic History

4.5 Billion Years

Present
Noah's Flood

Deep Geologic History

Proterozoic

Paleozoic

Mesozoic

Cenozoic

Present

4.5 Billion Years
Creation Week

Post-Flood world

Present

Flood Rocks

Proterozoic

Paleozoic

Mesozoic

Cenozoic
SO HOW ARE ROCKS DATED?

Index fossils are widespread fossils with short durations in the rock record

- They define particular time periods (ex.: Cambrian)
- Usually marine invertebrates, plankton, or pollen.
- They are not dependent upon “bottom conditions”
EXAMPLE OF INDEX FOSSILS:

Ammonites
FOSSIL DATING ASSUMPTIONS:

• Fossils are organisms that existed for a certain period of time. The duration of a fossil in the rock record approximates the time it existed on the planet.

• Therefore, this assumption requires that not all fossil organisms existed at the same time.
The names and ordering of geological ages are based on fossils (relative dating).

Dates were assigned later from radiometric techniques (“absolute” ages)
SO WHAT CAN WE SAY?

- The rocks of the world can be placed in relative-time order based on physical features (observed data).
- These relationships can be traced across small and large regions.
The relationships allow us to reconstruct events of the past

- Creation week
- Noah’s Flood
- The post-Flood period
A SNEAK PEAK FROM MY TEXTBOOK…

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DATING ROCKS
RELATIVELY SPEAKING