

Genesis - "In the beginning God created the heaven and the earth." All the other things that He created after that <sup>also</sup> could ~~possibly~~ fit into our ideas and concepts. These, however, are facts. The geologist then has to perhaps speculate, to propose theories as to the how the earth got here in the first place, how the universe which is so rapidly expanding got into that one spot in the first place - those are theories. One theory holds that the earth was produced when a big star passed very close to our sun - part of the sun flew off and spiraled around and gradually cooled down and thus the earth was produced. Another theory says that the earth was produced when this gigantic explosion which started all of these stars expanding as the universe as we know it - and the earth was one of those particles. Again these are theories. But let us separate the theories from the facts. The observations that we have made tend to indicate that the earth, as we know it, is of an age somewhere in the order of 2 billion years. This doesn't say how long man has been here. This doesn't say how long the animals have been here. This doesn't say how long plants have been here. Geologists can make educated guesses of the age of most things, particularly from paleontology or rock formations which have imbedded in them certain of these animals or plants - they can make educated guesses as to how long those things have been around. These are bits of data which indicate to us that the earth has been in existence some 2 billion years since God set it here and set His laws to working. As a chemist, one of the things that fascinates me is that we work like mad in the laboratory and the amount of research that has been published in the last hundred years is fantastic and the rate of increase of publication is tremendous and yet we are only discovering the things that God put in motion 2 billion years ago.

Thank you Dr. Willets. At this time we will take up an offering. We've had some expenses incurred in having this meeting. The men have not only come here

Doctor of Science degree from Philadelphia School of Pharmacy and Science. He is a Doctor of Science in the Biology Department there. He is going to discuss the biological implications. Dr. Speck.

I thought it was very nice of Mr. Jaggard to introduce me after the collection had been