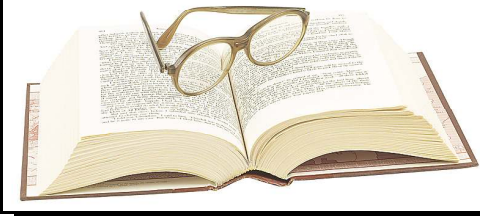


MESSAGES FROM WAYNE'S STUDY



I will give thanks to you because I have been so amazingly and miraculously made. Your works are miraculous, and my soul is fully aware of this.

Psalms 139:14 (GW)

I spent thirty-six years teaching Electronic and Computer Engineering at Cal Poly. Before that I was a Designed Engineer on the Technical Staff of Bell Telephone Labs in New Jersey. As far as “tent making” is concerned, I have always been a design engineer and love to see well designed things. People who I have met that knew I was a Design Engineer always seemed to ask, “How could you, of all people, with your knowledge of engineering and science, believe in such an antiquated thing as Christianity?”

The actuality of the situation is that, as a Design Engineer, I love to look at things others have designed - if they did a good job on them. Paul wrote, *“For the wrath of God is revealed from heaven against all ungodliness and unrighteousness of men, who suppress the truth in unrighteousness, because what may be known of God is manifest in them, for God has shown it to them. For since the creation of the world His invisible attributes are clearly seen, being understood by the things that are made, even His eternal power and Godhead, so that they are without excuse, (Romans 1:18-20 NKJV)”* The physical world is full of God’s great designs.

Have you ever been in one of the places around this area where they grow flowers for seeds. In the Spring, the fields are gorgeous with the various colored flowers. While I am glad for them because of their beauty, it was not for us that God made them so pretty. They are especially alluring to the birds and the bees (and other flying creatures) so they will carry pollen from one plant to another and thus ensure their reproduction. God knew just exactly what would attract a bee to a certain plant and created it thus.

But of all the “Design Engineering” God has done, there is nothing that is as wonderful as what the Psalmist observed above. Why do you have two eyes and why are they placed where they are? First, “video” signals need very wide bandwidths and hence the eyes need to be as close to the brain as possible - they are actually recessed into it. Second, just like you mount a camera on a tripod, God mounted our eyes on a “bipod.” With all the ways we can move our heads, we get the widest possible field of vision. Why two of them? There are several answers to that! First, an engineer learns that reliability requires redundancy. We could get along with one eye - a few people do. So there is the redundancy factor. Even more important, as you drive down the road, how do you manage to stay the right distance behind the car in front of you? With “stereo” vision, our minds can calculate the distance from us that the object is positioned.

The eyes are only part of this design factor. Turn your head on one side - do things look like they are turned on their side? No! Do the same with a camera and the pictures come out sideways. Why? The brain takes into account the orientation of your head and rotates the vision in your mind so that things are right side up. With the eyes so important, they need protection. We have tears to keep them moist. Eyelids to cover them to keep objects (or the light) out. There are even eyebrows designed to keep perspiration off your forehead from dripping into your eyes.



One further note. Did you ever go out at night in the dark and notice that things that were very beautiful in the daylight are just gray objects at night? Why? The retina of your eye has two types of detectors, “rods” which are very sensitive to all colors of light and “cones” that are not nearly as sensitive but are sensitive to different colors. God designed your eyes so you could see His beautiful creation and still be able to see in the faint moonlight. We **ARE amazingly and miraculously made**