Drs. Fine, Hoffman & Packer Chosen to Investigate Carl Zeiss Laser

Mark Packer, MD

We are excited to announce that Carl Zeiss has chosen our practice as one of only four sites in the United States to investigate exciting new technology for vision correction and make it available during clinical research monitored by the Food and Drug Administration. The principles of this new technology stem from ideas that first took root in the science of astronomy.

When astronomers want an accurate image of a distant planet or galaxy they employ fascinating technology known as wavefront science. The term *wavefront* refers to the wave of light as it travels from the object to form the image. The problem is that light coming from a far away star is scattered and distorted or *aberrated* as it travels through earth's atmosphere. These aberrations produce a blurry image. However, astronomers have now learned how to compensate for the aberrations and sharpen the image by using *adaptive optics*.

Adaptive optics relies on a lens which can adapt to and eliminate the aberrations in a wave of light, producing a faithful image of any object. The detailed, awe-inspiring pictures of planets and stars we see today have been enhanced through wavefront science and adaptive optics.

We now have the tools to measure the wavefront aberrations of the human eye, and we will soon begin investigation, here in our office in Eugene, of the Carl Zeiss MEL – 80, an excimer laser designed to eliminate optical aberrations, as

well as to correct near-sightedness, far-sightedness and astigmatism. If you are interested in learning more about wavefront-guided LASIK surgery or finding out if you may be a candidate for inclusion in the study, please contact Tony Reynolds today at 541 687 2110.

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