The American Society of Cataract and Refractive Surgery Symposium, 2004 May 1-5, San Diego, CA

### Early Clinical Trials with the Solid State 213 nm Laser on Standard and Non-Standard Cases

Peter Stewart, MD.

Ian Anderson M.D.

Donald Sanders, MD, PhD.

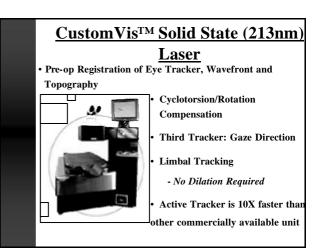
Paul van Saarloos, PhD.

Mukesh Jain, PhD.

William J. Ardrey, PhD.

## Solid State 213 nm Laser System for Customized Refractive Surgery

# Solid State (213nm) Characteristics 213nm is much less sensitive to corneal hydration than 193nm. This should lead to greater predictabilty. For further information on 213nm Characteristics, see poster: 'Laser Wavelengths in Ophthalmology: Critical Review'; Ian Anderson, MD ten, Q., G. Simon, et al. (1993). "Ultraviolet Solid state Laser (213nm) Photorefractive Keratectomy in Vivo Study." Ophthalmology 91: 83-893. state of the Christian R.A., Eidelboom, R.H., Reitholt, F., van Saarloos, P.P. (2001) Absorption of 193 and 213 nm laser wavelengths in continue Christian Schulmshood, 193 and 213 nm laser wavelengths in continue Christian Schulmshood, 193 and 213 nm laser wavelengths in continue Christian Schulmshood, 193 and 213 nm laser wavelengths in continue Christian Schulmshood, 193 and 213 nm laser wavelengths in continue Christian Schulmshood, 193 and 213 nm laser wavelengths in continue Christian Schulmshood, 193 and 213 nm laser wavelengths in continue Christian Schulmshood, 193 and 213 nm laser wavelengths in continue Christian Schulmshood, 193 and 213 nm laser wavelengths in continue Christian Schulmshood, 193 and 213 nm laser wavelengths in continue Christian Schulmshood, 193 and 213 nm laser wavelengths in continue Christian Schulmshood, 193 and 213 nm laser wavelengths in continue Christian Schulmshood, 193 and 213 nm laser wavelengths in continue Christian Schulmshood, 193 and 213 nm laser wavelengths in continue Christian Schulmshood, 193 and 213 nm laser wavelengths in continue Christian Schulmshood, 193 and 213 nm laser wavelengths in continue Christian Schulmshood, 193 and 213 nm laser wavelengths in continue Christian Schulmshood, 193 and 213 nm laser wavelengths in continue Christian Schulmshood, 193 and 213 nm laser wavelengths in continue Christian Schulmshood, 193 and 213 nm laser wavelengths in continue Christian Schulmshood, 193 and 213 nm laser wavelengths in continue Christian Schulmshood, 193 and 213 nm laser wavelengths in continue Christian Schulmshood, 193 and 213 nm laser wavelen

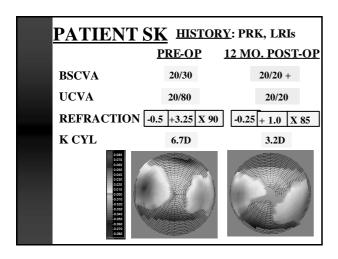


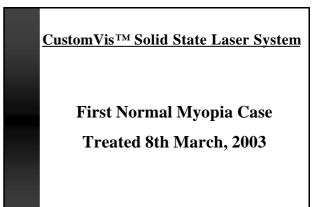
## **CustomVis Laser**

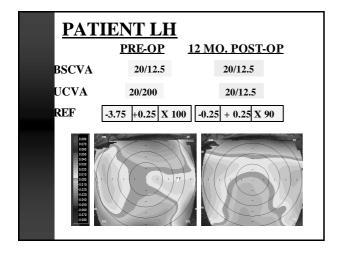
First complex patients treated with the CustomVis solid state laser reveal very exciting and promising results

Anderson, I., Sanders, D. R., van Saarloos, P.P., & Ardrey, W. J. Treatment of Irregular Astigmatism with a 213nm Solid State Diode Pumped Nd:YAG Ablative Laser. Journal of Cataract and Refractive Surgery. (In press) CustomVis<sup>TM</sup> Solid State Laser System

Irregular Astigmatism Case
Treated 15th September, 2002





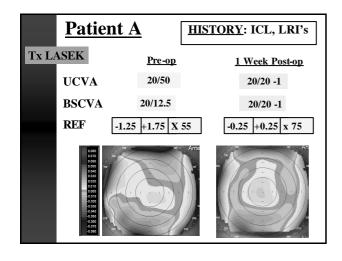


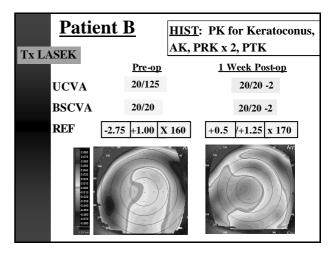
Histories, Pre-Op and 1 week postop data of complex refractive cases (LASEK).

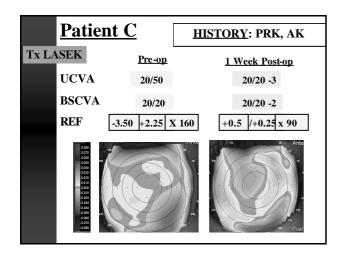
Recently treated (04/17/04) with the CustomVis™ Solid State Laser System.

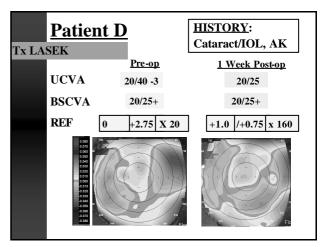
Investigator: Dr Ian Anderson, MD

Western Australia









## **Summary**

- These difficult cases showcase the array of refractive disorders that can be treated with the CustomVis Laser.
- Promising results are shown for 1 week post-op
- Further post-operative results will be presented at ESCRS, Paris in September

### **CustomVis Solid State Laser**

- Next Generation Technology
- Preliminary Results
- Installed and in process at international sites:
  - Australia (Perth),
  - Germany (Munich)
  - Spain (Barcelona).