

# 3<sup>rd</sup> International Conference and Exhibition on **Cosmetology & Trichology**

July 21-23, 2014 Hampton Inn Tropicana, Las Vegas, USA

## **Improving the face of cosmetic medicine: An automatic three-dimensional facial analysis system for facial rejuvenation**

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Technical imaging in medicine is of the highest importance in patient management. With assistance of X-rays, MR, CT and Thallium scans for example, our colleagues assess and diagnose illness and monitor the results of patient interventions. Accurate imaging to assess and monitor the results of cosmetic medicine has not been paralleled by the advances of technical imaging used in other areas of medicine. The assessment of progress of patients in cosmetic medicine continues to be largely limited to variable and qualitative 2D photography. This presentation demonstrates the use of engineering-quality polygonal best-fit 3D video scanning to firstly assess the patient and secondly to produce a single 3D picture that has been melded from the before and after images to quantitatively demonstrate the results of intervention. In addition, this presentation will highlight research into the impact of cosmetic medicine upon dynamic facial expression changes. .

### **Biography**

Michael K Molton graduated from the University of Western Australia in 1993 and began working in cosmetic medicine in 1995 when the field was in its infancy. He is a co-founder of the Cosmetic Physicians Society of Australasia formed in 1998. In 2004, he co-authored the landmark paper "Correlates of dysmorphic concern in people seeking cosmetic enhancement". Presently, he is the Joint Investigator with Winthrop Professor Mohammed Bennamoun, School of Computer Science and Software Engineering of the University of Western Australia.

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