

THE VISCOELASTIC NATURE OF BONE

And its reflection in implantology

An evening presentation by Dr. Robert Ulrichsen

Thursday May 7th, 2009

THE VISCOELASTIC NATURE OF BONE AND ITS REFLECTION IN IMPLANTOLOGY

Course Objectives:

- Bone biophysics of viscoelasticity.
- Computer and classical modelling of implant vibration and resonant frequencies as a reflection of bone density variation during osseointegration
- Our clinical research of impulse mediated dynamic characteristics of implants during healing and their correspondence to theory
- Ideas on time of implant placement and the accepted physiology of bone remodelling and correlation of these ideas to our experimental results.
- Review of the various Implant Stability Measuring Systems with particular emphasis on the Osstell[®] Mentor.

It is well accepted in the literature that following the bone growth post implantation is best done by measuring the implant's resonant frequency. This provides a quantitative record of bone density rise with osseointegration and gives the clinician a guide for when it is safe to load the implant. A commercially available instrument to do these measurements is the Osstell[®] Mentor.

THURSDAY MAY 7th, 6:00 – 9:00 pm (Dinner will be served at 6:00 p.m. course will commence at 6:30)

TUITION: \$99.00

LOCATION: Sudbury Regional Cancer Center, 4th floor Board Room

Parking available on the roof top across the street from the Travelway Hotel.

DR. ROBERT ULRICHSEN DDS, BSc, MSc

MSc research thesis: "The Biophysics of the Vibrational Characteristics of the Bone/Implant Interface During Osseointegration". Recently published in: International Association Dental Research, same title poster presentation IADR Toronto Symposium 2008.

Local Community Involvement: Sudbury Dental Society emergency services coordinator; Sudbury Regional Hospital dental services coordinator and past chief of dental services; Provider and coordinator of dental services of Sudbury Regional Hospital complex continuing care.

Sponsored by:



**For registration or for any questions please
contact Dr. Debbie Saunders at:**

Tel. 705 523-7334 Fax 705 523-7354