Advances in the Restoration of the Single Tooth Implant and Fixed and Removable Implant Prostheses Using Milled Titanium Framework

with Dr. Robert Humphries

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The basis for successful implant treatment involves thorough diagnoses and treatment planning as well as close integration of the restorative, surgical, and laboratory teams. Many advances have been made over the past 20 years regarding implant therapy. In the past decade, advanced computer technology has allowed the development of the most precise dental implant-abutment system to date.

Patient-specific abutments are designed and manufactured to each patient’s and clinician’s specifications. By using abutments specifically designed for each individual patient, optimal esthetic and functional results can be achieved on a consistent basis. The integration of abutments during the healing cycle for temporization will also be discussed. The benefits of using these anatomically correct abutments will be presented through the presentation of patients and clinical techniques.

At the conclusion of the seminar, participants will be able to:

- Understand the importance of diagnosis and treatment planning
- Develop abutments in the esthetic zone and posterior areas
- Design properties of patient-specific abutments
- Integrate patient-specific abutments into your implant practice and the use of duplicate abutments
- Diagnose whether to use a fixed, detachable or removable prosthesis.
- Classify maxillary and mandibular atrophy
- Evaluate occlusal vertical requirements and selection of a fixed or removable prosthesis
- Discuss other variables (esthetics, phonetics, hygiene, patient dexterity)
- Know the components used in both prostheses

Dr. Robert Humphries earned his Bachelor of Science degree at the University of Michigan before receiving his Doctor of Dental Surgery degree in 1985. He then graduated with a Master of Science degree in Prosthodontics in 1988, also, from the University of Michigan School of Dentistry. During his studies in the prosthodontics graduate program, he also taught at the School of Dentistry in the graduate and undergraduate clinics, as well as, in the pre-clinical levels in both Periodontics and Prosthodontics. Dr. Humphries has practiced dentistry for 31 years, 28 years practicing the specialty of prosthodontics. He has given numerous presentations to groups on the local and state levels on topics relating to prosthodontics and dental implant procedures.

Dr. Humphries has served on the Board of Directors and acted as President for the Kalamazoo Valley District Dental Society in the past, as well as, serving on numerous committees. He has also been active in the Michigan Society of Prosthodontists and is currently the Co-Chair of the American College of Prosthodontists Education Foundation. Immediate Past President of the Michigan Section of the American College of Prosthodontists and has served as a delegate during their national meetings. Dr. Humphries is a member of many local and national dental organizations.