3D SUMMIT
ON DIGITAL DENTISTRY

The Scottsdale Center For Dentistry

...The most comprehensive seminar on 3D digital dentistry.

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The Dental Company
Schedule

THURSDAY

12:30 - 5:00 pm  Golf Tournament ~ TPC Stadium Course
3:00 - 7:00 pm  Registration & Check-In at the Fairmont Princess Hotel
6:00 - 8:00 pm  Welcome Reception at the Fairmont Princess Hotel

FRIDAY

7:30 - 8:30 am  Breakfast at the Scottsdale Center for Dentistry
8:30 – 9:00 am  Welcome & Introduction to 3D Digital Dentistry Summit
9:00 – 10:00 am  3D Radiography ~ Current Technology & Future Directions
10:00 – 10:15 am  Refreshment Break
10:15 – 11:15 am  Patient Case Introduction ~ Diagnosis and Site Assessment
11:15 – 12:15 pm  Reducing Prosthetic and Restorative Uncertainty With Implant Planning
12:15 – 1:15 pm  Lunch
1:15 – 2:15 pm  3D Orthodontic Planning Applications - Now & Into the Future
2:15 – 3:15 pm  Improving Oral Surgery Outcomes Using 3D Imaging
3:15 – 3:30 pm  Refreshment Break
3:30 – 4:30 pm  Critical Considerations for using Implant Planning Software & Surgical Guides
4:30 – 5:30 pm  Patient Case Cont. ~ Implant Planning, Surgical Guide Process and CEREC Planning for Surgery
6:00 – 8:00 pm  Reception & Dinner at the Scottsdale Center for Dentistry

SATURDAY

7:30 – 8:30 am  Breakfast at the Scottsdale Center for Dentistry
8:30 – 9:30 am  Complementary 3D Planning and Diagnostic Tools – Now and in the Future
9:30 – 10:45 am  Patient Case Cont. ~ Anterior Implant Surgery & Prosthetic Placement
10:45 – 11:00 am  Refreshment Break
11:00 – 12:15 pm  Morning Breakout Session (1)
12:15 – 1:00 pm  Lunch
1:00 – 2:15 pm  Afternoon Breakout Session (2)
2:15 – 2:30 pm  Refreshment Break
2:30 – 3:30 pm  Afternoon Breakout Session (3)
3:30 – 4:00 pm  Wrap Up Session in the Scottsdale Center Auditorium
**Program - FRIDAY**

3D Radiography - Current Technology and Future Directions  
Dr. Don Tyndall | Friday 9:00 - 10:00 am  
Gain an understanding of 3D imaging and its potential as the new standard of care in dental diagnostics and treatment planning. The benefits and applications of 3D imaging will be discussed as they relate to improvements in patient care, as evidenced by real patient cases. You will learn how this technology is driving change in implantology, endodontics, periodontics, oral maxillofacial surgery, orthodontics, cosmetic, and general dentistry.

Patient Case Introduction -  
Diagnosis and Site Assessment  
Dr. Don Tyndall, Dr. Jay Reznick & Dr. Sameer Puri | Friday 10:15 - 11:15 am  
An anterior prosthetic implant patient will be scanned using the GALILEOS 3D conebeam system. The patient will be wearing an acrylic scanning stent with integrated fiduciary markers. The scan will be read for diagnosis and the planned implant area bone graft will be evaluated.

Reducing Prosthetic and Restorative Uncertainty with Implant Planning  
Dr. Lyndon Cooper & Dr. Ingeborg DeKok | Friday 11:15 - 12:15 pm  
Achieve better outcomes using the latest prosthetic applications in implant treatments. This lecture will cover patient selection criteria, surgical planning considerations, and the latest technological advancements in prosthetics, giving immediate benefit to your everyday practice.

3D Orthodontic Planning Applications - Now & Into the Future  
Dr. Chung How Kau & Dr. Andre Mol | Friday 1:15 - 2:15 pm  
The long awaited incorporation of the third dimension to our radiographic records is now a reality. There is still room for improvement, however CBCT technology appears to be here to stay. The future in orthodontic imaging seems exciting as we discover new frontiers, and as the paradigm in orthodontics shifts from landmarks, lines, distances and angles to surfaces, areas and volumes. This lecture will summarize the current state of 3D orthodontic imaging and analysis and how we might continue to evolve this functionality in the future.

Improving Oral Surgery Outcomes Using 3D Imaging  
Dr. Eric Dierks | Friday 2:15 - 3:15 pm  
Achieve greater surgical precision and reduced operating time with the successful integration of 3D imaging tools in maxillofacial surgery. This in-depth discussion of the intricate maxillofacial anatomy will cover orthognathic, craniofacial, traumatic, and oncologic cases explaining technologies ranging from straightforward to complex.

Critical Considerations for Using Implant Planning Software and Surgical Guides  
Dr. Richard Mecall | Friday 3:30 - 4:30 pm  
This lecture will help you identify those common dental and surgical anatomic findings best evaluated and managed with 3D imaging. Discuss basic treatment pathways and universal algorithms to simplify your implant treatment planning. Review software usage in analyzing prosthetic and surgical CT information in 2D and 3D, for implant placement, stereo lithographic surgical guide and anatomic model ordering, and same day implants and restorations.

Patient Case Continued –  
Implant Planning, Surgical Guide Process and CEREC Planning for Surgery  
Dr. Jay Reznick, Dr. Sameer Puri & Dr. Armen Mirzayan | Friday 4:30 - 5:30 pm  
The patient scan is used to mark the location of the nerve canal and plan the implant location, which allows for the surgical guide process to occur. The surgical guide is then reviewed with the plaster model. The abutment shape is considered and then the CEREC scan and surgery are planned.

*All Friday sessions will be in the main auditorium.*
Complementary 3D Planning and Diagnostic Tools - Now and In the Future
Dr. James Mah | Saturday 8:30 - 9:30 am
Select cases will be presented to demonstrate the functionality and use of 3-D visualization software planning and simulation tools. An emphasis will be placed on the differences between research theories and the tools that have the most promise in practical clinical applications. The lecture will also summarize the work being done to create virtual craniofacial patients upon which diagnosis, treatment planning and simulations can be performed.

Patient Case Continued –
Anterior Implant Surgery and Prosthetic Placement
Dr. Jay Reznick, Dr. Sameer Puri, & Dr. Armen Mirzayan | Saturday 9:30 - 10:45 am
The implant is placed accurately using the SiCAT surgical guide and the abutment is attached. The CEREC intra-oral scan, aesthetic and occlusal design, and milling process is completed. The provisional CEREC prosthetic is completed and placed on the abutment.

BREAK OUT SESSIONS

SESSION 1

1-A: Radiological Responsibility and Current 3D Research Summary
Dr. Don Tyndall and Dr. André Mol | 11:00 - 12:15 pm | AUDITORIUM
This session will identify resources in diagnosis, treatment planning, and clinical responsibilities. Referral protocols, the use of oral and maxillofacial radiologists, and the potential liabilities associated with 3D imaging by non-specialists will be discussed. This lecture will also summarize the current 3D research studies concisely and provide you with the latest information so that you can best plan for future 3D applications for your practice.

1-E: GALILEOS Implant and Materialise - Simplant 3D Implant Planning Patient Case Examples
Dr. Richard Mecall and Jochen Kusch | 11:00 - 12:15 pm | EAST BOARDROOM
This breakout session will allow you to see patient cases in which 3D imaging is being used to assist with implant and treatment planning. The speakers will cover a range of patients with different needs. They will also cover more detail on the specific processes associated with computer assisted implant planning and surgical guide usage.

1-L: Introduction to CEREC 3D Technology and its Use in Achieving Optimum Aesthetics
Dr. Sameer Puri and Dr. Armen Mirzayan | 11:00 - 12:15 pm | LAB
Take advantage by learning about one of most innovative technologies in restorative dentistry. Review the concepts of how CEREC assists with occlusal fit, strength, and aesthetics, giving complete patient satisfaction. The CEREC concept has become one of the biggest advancements in modern dentistry, and this lecture will introduce its basic application to those who have not had the opportunity to learn about it yet.

1-M: 3D Orthodontic Applications and Hounsfeld Units Correlation Study Results
Dr. James Mah and Dr. Peter Mah | 11:00 - 12:15 pm | MANJI BOARDROOM
Discover and learn the breadth and depth of orthodontic imaging applications currently available. Explore the potential for future applications such as Dr. Peter Mah’s study correlating cone beam images to traditional CT images. Learn how Hounsfeld units might be derived for tissue hardness and density measurements for use in 3D conebeam diagnosis and treatment planning.
2-A: Business Modeling for Oral Maxillofacial Imaging Centers  
Dr. Brian Smith and Dr. Robert Morrison | 1:00 - 2:15 pm | AUDITORIUM

Be a part of the 3-D Imaging Center revolution. Explore the best business practices for digital dentistry as related by two experts who are successfully integrating it into their practice. Learn to market, profit, network, and implement this technology into your practice whether you own a 3D imaging machine, or utilize outside imaging centers. Learn about marketing plans, referral sources, staffing considerations, financing options, and how to build a successful imaging center business model.

2-E: Online Oral Surgery Training Resources and Nobel Guide Integration  
Dr. Jay Reznick | 1:00 - 2:15 pm | EAST BOARDROOM

Harness the many resources available to assist you in learning the latest surgical techniques. In this session you will learn about online oral surgery training resources. You will see an overview of the NobelGuide™ system and how it can be used in conjunction with 3D imaging to provide foundational knowledge for surgical planning and surgical guides for treatment.

2-L: Digital Restorations Through CEREC Connect  
Michael Kulwieck, CDT | 1:00 - 2:15 pm | LAB

The new capabilities of CEREC connect and In-Lab will be presented. These new capabilities enhance the available services for CEREC Chairside Doctors by linking them to any CEREC In-Lab equipped lab. New communication technology provides lab design access and possibilities that were virtually unimaginable until the recent introduction.

3-A: Piezotome Surgery Units for Sinus Lifts and Bone Grafts - “Hands-on”  
Chris Totty | 2:30-3:30 pm | AUDITORIUM

New ultrasonic surgical unit which cuts hard tissue without damaging soft tissue will be introduced. The session will include the opportunity to try a hands-on demonstration of the unit. Participants will learn how the unit stays at a constant operating temperature reducing risk and discomfort and will see how it also helps streamline procedures by allowing easy tip changeovers during procedures.

3-E: Occlusion and Equilibration Modeling  
Dr. Bob Lamb and Jochen Kusch | 2:30-3:30 pm | EAST BOARDROOM

This lecture will summarize the Slavicek method for occlusal modeling and analysis. You will learn how 3D Imaging and movement simulation technologies could be used to assist with modern gnathology and occlusal treatment planning.

3-M: Practical 3D Orthodontic Applications for Dentistry  
Dr. Chung How Kau and Dr. Carlos Navarro | 2:30-3:30 pm | MANJI BOARDROOM

Explore the digital age of orthodontics with cone beam CT / 3D surface imaging and discuss the range of issues associated with applying this technology in a busy orthodontic practice. The speakers will cover how 3D imaging helps every day with clinical diagnosis, treatment planning, and patient education.
Speakers

Dr. Lyndon Cooper
Professor of Prosthodontics and Research at the University of North Carolina at Chapel Hill School of Dentistry, and Director of the Basic Science Laboratory at the school’s Dental Research Center. He has researched extensively on bone cell development and immediate loading of dental implants. He has published numerous articles on prosthodontics and implantology.

Dr. Ingeborg J. De Kok
Assistant Professor in Prosthodontics at the University of North Carolina, School of Dentistry. Dr. De Kok completed her DDS training at Central University of Venezuela in 1997 and received her Prosthodontics Certificate and MS Degree in Oral Biology at UNC in 2002. She completed a fellowship in Implant Dentistry at UNC as well in 2003. Her major research interests include adult stem-cell bone regeneration.

Dr. Eric Dierks
Graduate of both the dental and the medical schools of the University of Louisville. He completed his residency in OMS at the Medical Center of Delaware, and his residency in ENT was done at the University of Texas in Dallas. He is a member of the Head and Neck Surgical Associates in Portland, Oregon and emphasizes head and neck tumor surgery, craniomaxillofacial trauma.

Dr. Chung How Kau
Associate Professor of Orthodontics at the University of Texas At Houston. He serves on the editorial review board for the American Journal of Orthodontics and Dento-facial Orthopaedics.

Dr. Bob Lamb
Received his D.D.S. in 1967 from the University of California in San Francisco and his M.S.D. and certificate in Periodontics in 1972 from the University of Washington. Dr. Lamb has published in periodontal textbooks and various dental journals and lectures extensively both nationally and internationally while maintaining a private practice limited to periodontics and implantology in Foster City, California.

Dr. James Mah
Associate Clinical Professor at USC, Director of the Redmond Imaging Center and Craniofacial Virtual Reality Laboratory, and Editor of The Journal of Clinical Orthodontics.

Dr. Peter Mah
Graduate of the University of Manitoba in 1995 and has practiced general dentistry for about 10 years before returning to graduate school to pursue the specialty of Oral and Maxillofacial Radiology.

Dr. Rick Mecall
Diplomate of the American Board of Periodontology and is a contributing author to three text books, Dental Applications of Computed Tomography, Computer Guided Implantology, and Implant Therapy. Dr. Mecall helped develop a Universal Computer Guided Implant Treatment Algorithm, enabling any dentist to use SimPlant and easily plan surgical and restorative implant treatment.
Dr. Brian Smith
Started Austin Cone Beam Imaging in July of 2007. He is co-founder of DentaMedX which develops and services 3-D DICOM protocols and configurations for integrating 3D imaging and networking into dental cone beam computerized tomography hardware and software applications using a proprietary VPN platform with advanced PACS for set up and maintenance of multi user file sharing and IT support.

Dr. Don Tyndall
Chair of Scientific Affairs Committee of the American Association of Oral Maxillofacial Radiologists. He is a professor in the Department of Diagnostic Sciences and General Dentistry at the University of North Carolina at Chapel Hill.

Dr. Armen Mirzayan
Holds a certificate of General Practice Residency completion from The Queen’s Medical Center in Honolulu, Hawaii. He has also been a CEREC operator since 2001 and is a certified CEREC trainer, teaching advanced courses in the Los Angeles area. He is a co-owner of CERECdoctors.com, an online training site for CEREC users covering basic to advanced topics.

Dr. Robert Morrison
Spent ten years in the United States Navy as a dentist and during this time he completed a post doctoral residency in Comprehensive Dentistry and was then assigned to London, England. He has lectured on various aspects of dentistry and has specialized in treating children and autism patients.

Dr. Sameer Puri
Maintains a full time private practice emphasizing comprehensive dentistry in Tarzana, CA. Immediately after graduating from dental school, Dr. Puri completed an Advanced Education in General Dentistry residency from the University of Tennessee. Dr. Puri is a regular contributor to the message boards of Dentaltown and has published clinical articles in several leading journals.

Dr. André Mol
Received his D.D.S. degree from the University of Utrecht and a Ph.D. degree in Oral Radiology from the Vrije Universiteit Amsterdam, The Netherlands. Currently, Dr. Mol is an Assistant Professor in the Department of Diagnostic Sciences and General Dentistry of the University of North Carolina at Chapel Hill. Dr. Mol serves as the Associate Editor for Dentomaxillofacial Radiology.

Dr. Carlos Navarro
President of Navarro Orthodontix, a group of private practice partners in Texas limited to orthodontics. He is an active member of the College of Diplomates of the American Board of Orthodontics and the Roth Williams International Society. He has been in the dental profession for more than 30 years.

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