Wednesday, September 28, 2011

8:00-12:30 CONGRESS REGISTRATION

12:30-12:55 Dr. Tom Colquitt - Opening remarks.

1:00-2:30 Dr. Bob Winter – Scottsdale, Arizona
Dr. Pat Allen – Dallas, Texas

The interdependence of periodontics and prosthodontics

This presentation will cover interdisciplinary treatment of complex cases. Periodontal and prosthetic procedures will be illustrated with discussion of timing and sequencing of steps to achieve superior results. Course attendees will learn: (1) the importance of the soft tissue component in the esthetic analysis; (2) indications and technique for functional and esthetic crown lengthening; (3) sequencing of restorative and periodontal surgical procedures; and (4) enhancement of esthetics in implant patients.

..................... BREAK (30 minutes) .................

3:00-5:00 Drs. Winter & Allen – Presentation continued.

Thursday, September 29, 2011

8:00-8:55 Dr. Carl Wirth – Wesley Chapel, Florida

Esthetics needs function – The missing link

Today, esthetics takes center stage and most our patients want “tooth colored restorations”. Unfortunately, with the advent of esthetic or cosmetic dental practices, there is often a serious disconnect between the physiology of mandibular function, occlusal form, and so-called esthetic or cosmetic dentistry. Gnathology has always been concerned with mandibular function and occlusion, but esthetics was always considered during treatment. Today, gnathology and esthetic dentistry must join forces and combine the best of both worlds for the future of dentistry. The following will be addressed: (1) the relationship between physiologic mandibular function, occlusal form, and esthetics; (2) unique cranial reference planes used to establish the esthetics of maxillary teeth; (3) properly aligned maxillary teeth, with natural tooth morphology, will always have the functional matrix for the fitting of mandibular teeth; (4) posterior cusp tips should never have occlusal contact when intercuspated, i.e., cusp tip to base of fossa occlusion is malocclusion; (5) all posterior teeth normally contact on the crests of cusp ridges, marginal ridges, and triangular ridges, this is physiologic; and (6) teeth that look like teeth usually work.
9:00-9:55
Dr. Michael Sesemann – Omaha, Nebraska

Examination, diagnosis, treatment planning & treatment of the esthetically challenging case

Today’s dental patient arrives at our office with an unprecedented motivation for esthetic dentistry. This lecture will explore an array of techniques that will help provide proven systems for predictable success when designing and completing a case with esthetic challenges. When providing high-level esthetics, it is paramount that the dentist, laboratory technician, and patient work in a concerted, tri-partisan effort to accurately identify all esthetic objectives, to select an appropriate material for a given situation and to integrate proper techniques that will predictably and enjoyably achieve the desired result. Systematic methods to achieve these objectives through the diagnostic and treatment phases will be presented.

…………… BREAK (30 minutes) …………………..

10:30-11:55
Dr. John Burgess – Birmingham, Alabama

Adhesive restorations – Clinical update

Beginning with a brief overview of adhesives this discussion will focus on common problems associated with anterior and posterior composite resins. Proper placement techniques, developing improved contact areas, reducing thermal sensitivity and providing life like tooth colored restorations will be addressed. In particular self adhesive flowable materials and low shrinkage composites will be detailed and indications for use examined. The discussion will then turn to ceramic systems, when to bond or cement the restoration and what the longevity of all ceramic systems really is. Full contour zirconia restorations will be examined in detail focusing on enamel wear with these systems. Improving success and clinical predictability with all ceramic restorations by improving preparations, materials & shade selections will be considered.

12:00-12:55
Dr. Baldwin Marchack – Pasadena, California

The future of zirconia restorations for natural teeth and implants: The controversies continue

Questions regarding the long-term survival of restorations utilizing zirconia as a substitute for metals continue to spark controversial debates. Studies reporting high failure rates due to veneering-porcelain fractures have postulated numerous causes for the results observed. This presentation will evaluate various failure modes and discuss whether the possibility exists to design and fabricate restorations for teeth and implants that are functional and practical with acceptable esthetics and predictability.

1:00-1:55 LUNCH WITH EXHIBITORS
2:00-5:00  **TABLE CLINICS**

Dr. Craig Anderson  (Santa Monica, California) – *Using a single moving camera to determine hinge axis*

Dr. Heath Balch  (Memphis, Tennessee) – *Methods for structural reinforcement of mandibular complete dentures*

Dr. Caroline Corrigan  (San Antonio, Texas) – *Enhanced jaw relation records: Incorporating available dental implants*

Dr. Sarra Cushen  (Wilford Hall AFB, Texas) – *Articulation schemes for the edentulous maxillary arch opposing the restored mandibular arch*

Dr. Bel Guillory  (Wilford Hall AFB, Texas) – *Digital technology and teledentistry: The promise of improved outcomes in the reconstruction of wounded warriors and maxillofacial patients*

Dr. Derek Hopkins  (Victoria, British Columbia, Canada) – *A technique to facilitate fabrication of direct provisional restorations for organized occlusion*

Dr. Chris Jones  (Wilford Hall AFB, Texas) – *Is there an increased incidence of obstructive sleep apnea in patients with moderate to severe wear due to sleep bruxism?*

Dr. Weiqiang Loke  (San Antonio, Texas) – *Implant-supported full arch provisional restoration as an orthotic device for splint therapy*

Dr. Jim Metz  (Columbus, Ohio) – *Screening and titration protocol for sleep related breathing disorders*

Dr. Patrick Miklos  (Wilford Hall AFB, Texas) – *Resolution before diagnosis*

Dr. Roxanna Nicoll  (San Antonio, Texas) – *CAD/CAM concepts applied to complete denture fabrication*

Mr. David Prestipino  (Strasburg, Virginia) – *Cemented implant restorations – Concerns and solutions*

Dr. Rand Redfern  (Colorado Springs, Colorado) – *Stage 0 bisphosphonate related/induced osteonecrosis of the jaw/TMJ*

Dr. Yves Smith  (San Antonio, Texas) – *Integration of a digital device into an oral appliance for obstructive sleep apnea to objectively evaluate patient compliance*

Dr. Al Sutton  (Wilford Hall AFB, Texas) – *Digital aids in the modern prosthodontic practice*

Dr. Carl Wirth  (Wesley Chapel, Florida) – *Esthetics needs function – The cranial related esthetic and functional reference position*

6:00-10:00  **GROUP DINNER**

---

**Friday, September 30, 2011**

7:30-8:00  International Academy of Gnathology, American section, business meeting (members only)

8:15-8:50  **Dr. Pat Mattie**  – San Antonio, Texas

*Gnathology is alive and well: Systematic approach to control of esthetic form, revisited*

This presentation will navigate the audience through theoretical and practical aspects of full mouth dental rehabilitation, including esthetic analysis, diagnostic mounting, diagnostic waxing/set-up, overlay esthetic try-in, preparations, provisionalization, and fabrication of definitive restorations. Jack Preston's historically important publication on this subject (JPD, 1976) will be revisited and conceptually updated to incorporate modern prosthodontic practices and patients, and to illustrate navigation of complicated dental rehabilitation patients. The material reviewed here lends well to both essay and table clinic presentation formats.
Implant dentistry represents an ever-expanding segment of contemporary restorative service. Unfortunately, the use of implants in conjunction with removable partial denture service has been largely overlooked. This presentation highlights critical considerations for the successful incorporation of implants into removable partial denture therapy. It includes discussions of biomechanics, classification, and design.

.................. BREAK (20 minutes) ..................

Large fixed prosthodontic procedures, that involve an arch or more, are one of the biggest challenges in dentistry. It is stressful for the restorative dentist, the laboratory, and for the patient. Wouldn’t it be nice if there was a recipe that, if followed, would guarantee a restoration with no surprises? In this presentation we will look at a number of large cases, beginning from the point of an approved treatment plan, and discuss how to get to completion of the case with predictability. We will talk about provisionals vs. prototypes, record taking, and how to communicate to the laboratory. Upon attending this presentation, one should: (1) know what aspects of the prototype are most important and need to be accurate; (2) be able to get proper inter-occlusal records that also communicate vertical dimension; (3) have a "list of ingredients" detailing for your technician what you envision; (4) know why cross-mounted casts are essential; and (4) learn a few tricks that facilitate thinking outside the box when communication with the lab.

This presentation will involve a detailed discussion of some commonly misinterpreted occlusal concepts. It will cover aspects of TMD therapy, diagnosis & treatment of complex restorative cases, controversies in occlusal equilibration, and an "adjustment free" denture technique.

UNscheduled afternoon and evening – Optional activities; sign-up during registration.
8:00-8:55

Dr. Barry Glassman – Allentown, Pennsylvania

*Functional diagnosis of the TMJs using joint vibration analysis*

Joint vibration analysis is based in sound joint principles and can be a tremendous asset in evaluating joints. Instrumentation in general has been associated with specific treatment philosophies. The real value of JVA is in diagnosis allowing the individual practitioner to decide treatment based upon that specific diagnosis leading to important diagnostically driven therapy. What is JVA and how is it different from sonography? How reliable is JVA? Does JVA replace imaging? How does JVA guide treatment concepts? What is the relationship between joint vibration and occlusal concepts? These are just some of the major issues that will be addressed.

9:00-9:55

Dr. Mariano Rocabado – Santiago, Chile

*The craniovertebral centric relation concept, synovial TMJs, and occlusal prevention*

A radiographic study of the craniocervical relations in patients between 8 and 12 years of age under orthodontic treatment has demonstrated that 65.1% are already symptomatic. Joint and or muscular pathology is not a problem of age as degenerative process can be present at any age, without pain, usually undiagnosed. The major pathological findings are related to abnormal relationships between occiput, atlas, and axis, with loss of craniovertebral centric relation. This biomechanical abnormal relation can induce an abnormal pattern of growth and development of the occlusal plane and facial asymmetries. This presentation will introduce practitioners to these concepts from both diagnostic and management perspectives.

……….. BREAK (30 minutes) ……………………………………………………………………………………………………………………………………………………

10:30-11:25

Dr. Larry Wolford – Dallas, Texas

*Examination, diagnosis and treatment of retrognathic mandibles with TMJ derangements*

This presentation will address the examination, diagnosis and surgical treatment of retrognathic mandibles with TMJ derangements in the Class II malocclusion patient. The presentation will include protocols and techniques to provide a stable occlusion post surgery. Additionally, discussion of when TMJ surgery is a necessary adjunct to providing this stability will be provided.
11:30-11:55  Dr. Brian Broadwell – San Antonio, Texas

*Shattered glass: Facial morphology's role in restorative material longevity*

This presentation will cover the following topics: (1) the quantification of facial morphology, (2) clinical relevance of FMA evaluation, (3) correlation between facial morphology and material success with particular emphasis on zirconia, lithium disilicate and leucite-reinforced ceramic as compared to manufacturer's recommendations, and (4) the use of a patient profile photograph in place of a lateral ceph to evaluate facial morphology.

12:00-12:25  Dr. Darin Ward – Calgary, Alberta, Canada

*The axis horizontal plane (AHP) for consistent diagnosis & treatment planning*

This presentation will highlight how to efficiently and effectively utilize the horizon with patients in their natural head posture (NHP) as the arbitrary third point of reference to correlate records, including photographic, radiographic, and articulated models (hinge axis and/or arbitrary). This technique can be efficiently applied to comprehensive interdisciplinary diagnosis and treatment planning in order to maintain consistent orientation of records for more effective communication between general practitioners, specialists, and patients.

12:30-1:25  LUNCH WITH EXHIBITORS

1:30-2:55  Dr. Jim Metz – Columbus, Ohio  
Dr. Jeff Rouse – San Antonio, Texas

*The new face of dental sleep medicine: Correlation of bruxism and obstructive sleep apnea*

This presentation provides a review of the current scientific literature on sleep disturbances and their impact on tooth wear and oral muscle pain. The popular opinion that malocclusion promotes bruxism appears to be incorrect. Airway disturbances during sleep seem to be the link. Upper airway resistance has been linked to TMD, chronic fatigue and bruxism. Obstructive sleep apnea related bruxers will classically do more damaging to their teeth and have greater health risks. The Bruxism TRIAD of sleep bruxism, GERD, and apnea will be explored. Attendees should learn: (1) the three categories of sleep disturbance and their unique signs and symptoms; (2) to recognize the Bruxism Triad patient during a dental examination; and (3) treatment alternatives to resolve bruxism and establish airway.

………………… BREAK (30 minutes) ………………………………………………………………………………………………………………………………………………….
Obstructive sleep apnea (OSA) affects an estimated 18 million Americans and 80 to 90% remain undiagnosed and untreated. Dentistry can significantly contribute to the treatment of patients with OSA by means of oral appliances and home monitoring techniques. The evidence base supporting the use of oral appliances and the treatment implications for oral appliances in dental practice will be discussed, as well as current “state of the art” research findings.

God only knows where Dr. Cronin is going to take us, but it should be both interesting and entertaining to see what an experienced educator has to say on the matter!
Reserve Speakers

Reserve

Dr. Lane Ochi – Beverly Hills, California

*Understanding Color and Shade Matching in Dentistry*

Color is an integral part of esthetic dentistry. If the color of a restoration is off, the mistake can be glaringly evident and the result is an unhappy patient. Most dental schools do not do an adequate job in teaching color theory. Color theory is a language that conceptually and perceptually describes the elements of color and their interactions. Unfortunately, understanding color is tricky. Slight variances in shade play with our eyes, our minds, and, ultimately, our dentistry. The illumination in the dental treatment room, optical illusions, color blindness, and fatigue are among the dental professional’s ongoing obstacles to successful shade matching. This presentation will attempt to enlighten the dentist and ceramist on the dimensions of color, the effect of metamerism and other phenomenon. Fluent in the language of color, we can sharpen our perception of color, better understand existing color dynamics, make better predictions, and communicate more clearly about color. A review of these concepts as rules and guidelines will be presented in a manner that can be utilized to resolve complex esthetic problems.

Reserve

Dr. Jeff Brucia – San Francisco, California

*Restorative Materials Update 2011*

Restorative care demands continuous learning in the areas of material science and restorative technique. It is estimated that more than 80% of restorative failures are due to clinical error. The continuous evolution in adhesive materials and techniques combined with the ever-increasing demands for aesthetic restorations has made tooth colored adhesive dentistry a quality option for every treatment plan. The numerous choices in materials has confused the clinician as to what is best indicated in a given situation. This lecture course provides a comprehensive discussion of the ever-changing world of dentinal adhesives.

Reserve

Dr. Markus V. Troeltzsch – Ansbach, Germany

*Stomatognathic Etiologies of Headache and their Treatment*

Headache, especially tension-type headache, is an entity that is predominantly treated by neurologists. Due to the high prevalence of up to 20% among the population and the often vexing influence on the patients suffering, there is high demand for treatment. A study conducted by our scientific group showed that both oromandibular factors and even dental factors might be of major importance in the etiology of this disease. Whether or not a dental approach may help alleviate the burden of headaches is still in scientific discussion. Attendees will learn: (1) epidemiologic factors and pathology of headache, (2) the warning signs for possible fatal headache disease, such as tumors, aneurysm and stroke, (3) diagnostic tools for the distinction of the different types of headache defined by the International Headache Society, and (4) A revised medical and dental approach to tension-type headache including recent scientific results and success rates.