# THE AMERICAN ACADEMY OF FIXED PROSTHODONTICS



# Technologies and Strategies

61<sup>ST</sup> ANNUAL SCIENTIFIC SESSION Friday, February 24, 2012 Saturday, February 25, 2012

> CHICAGO MARRIOTT DOWNTOWN 7<sup>TH</sup> FLOOR BALLROOMS I, II, III

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#### TENTATIVE 2013 MEETING DATE February 22-23, 2013

The American Academy of Fixed Prosthodontics provides programs for its members that support its mission to foster excellence in the field of fixed prosthodontics, including promoting excellence in patient care and enhancing the professional lives of its members.

Continuing education programs are planned, developed, and managed by the AAFP Program Chair in consultation with the Continuing Dental Education Compliance Committee; the programs are in accordance with the Academy's mission and goals and the content includes the results of responses obtained from the written comments provided by course participants on the evaluation form.



Continuing Education Recognition Program

ADA CERP is a service of the American Dental Association to assist dental professionals in identifying quality providers of continuing dental education. ADA CERP does not approve or endorse individual courses or instructions, nor does it imply acceptance of credit hours by boards of dentistry.

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12.5 hours credit for this course

# THE AMERICAN ACADEMY OF FIXED PROSTHODONTICS MISSION AND GOALS

The mission of The American Academy of Fixed Prosthodontics is to foster excellence in the field of fixed prosthodontics, implants, and esthetic dentistry through mutual study, participation, and cooperation.

The Academy shall:

- 1. Provide for educational enrichment of those with a recognized commitment and dedication to the field of fixed prosthodontics, implants, and esthetic dentistry.
- 2. Represent the discipline of fixed prosthodontics at all levels of the dental profession.
- 3. Promote excellence in patient care.
- 4. Promote excellence in teaching.
- 5. Encourage and support research in fixed prosthodontics.
- 6. Promote camaraderie and fellowship among the members of the Academy.

Authored by: Dr. Stephen D. Campbell

# ASTRATECH

#### **2012 PLATINUM SPONSOR**



# 2012 SILVER SPONSOR



#### THE ORIGIN AND HERITAGE OF THE AMERICAN ACADEMY OF FIXED PROSTHODONTICS

The American Academy of Fixed Prosthodontics, originally The American Academy of Crown and Bridge Prosthodontics and renamed in 1991, has been and will continue to be the leading national voice of fixed prosthodontics. Its membership is composed of educators, clinical practitioners, and researchers of this important discipline of dentistry.

The purpose of this organization is to pursue, by mutual study and cooperation, activities reflecting a high and ethical standard of practice, as well as teaching and research, in the art and science of crown and bridge prosthodontics.

The Academy originated in 1950 in Chicago, Illinois. The three men who deserve credit for its concept and preliminary planning are: Dr. Stanley D. Tylman, Dr. Claude R. Baker, and Dr. George H. Moulton. These men of vision rallied other important leaders in the crown and bridge field to actively support their cause. Together, they planned an organizational meeting that took place at the Stevens Hotel on February 5, 1951. Those present at that meeting were: Drs. Stanley D. Tylman, Arthur O. Klaffenbach, Robert P. Dressel, Alver Selberg, Charles E. Peterka, Earl A. Nelson, Claude R. Baker, and George H. Moulton. Dr. Baker was chosen as temporary chairman and Dr. Moulton as temporary secretary.

The next meeting took place in French Lick, Indiana on March 19, 1951, where the tentative constitution and bylaws were presented for final approval. Charter members were initiated into the Academy on February 2, 1952, in Chicago, making this the first annual meeting of The Academy of Crown and Bridge Prosthodontics. We have continued to grow and expand our national and international membership to our present total of nearly 600 active and life members in 24 different countries.

Members of today have a proud heritage in the Academy. We continue to dedicate ourselves to the pursuit of knowledge, truth, and competency in research, in teaching, and in the clinical practice of crown and bridge prosthodontics.

Authored by: Dr. Jesse T. Bullard

* Claude R. Baker	.1952-53
* Robert P. Dressel	1954
* E. David Shooshan	1955
* Earl Allen Nelson	1956
* L. Walter Brown, Jr	1957
* George H. Moulton	1958
* Francis B. Vedder	1959
* Stanley D. Tylman	1960
* William H. Hagen	1961
* Everett Carl Brooks	1962
* Ernest B. Nuttall	1963
* Fred Norman Bazola	1964
* John D. Adams	1965
* Robert Conley Zeisz	1966
* Willis Edward Corry	1967
* Joseph E. Ewing	1968
* E. Edward Kraus	1969
Raymond M. Contino	1970
* Douglas H. Yock	1971
* Philip Williams	1972
* Douglas M. Lyon	1973
Kenneth A. Morrison	1974
* Robert Sheldon Stein	1975
* John M. Schlick	1976
* Charles L. Ziegler	1976
Charles J. King	1977
* Samuel E. Guyer	1978
* Roland W. Dykema	1979
* Wade H. Hagerman, Jr	1980
Robert D. Jeronimus	1981
* Lloyd L. Miller	1982

\* John H. Emmert......1983 \* Alfred C. Macaluso......1984 Ernest B. Mingledorff......1985 Herbert Ptack......1986 \* Ralph A. Yuodelis.....1987 \* William D. Culpepper......1988 Ronald G. Granger.....1989 Maurice H. Martel......1990 Ronald D. Woodv......1991 Albert J. Kazis......1992 \* William L. Neguette......1993 Dale L. Timberlake......1994 Jesse T. Bullard......1995 Harvey L. Colman......1996 Gerald J. Ziebert.....1997 Richard D. Wilson.....1998 Denny M. Smith.....1999 Davis A. Garlapo......2000 Stephen D. Campbell......2001 Richard R. Cavanaugh......2002 John T. Goodman......2003 William W. Nagy......2004 Peter S. Lund......2005 H. Philip Pierpont......2006 Jane D. Brewer......2007 Martin F. Land......2008 John R. Agar......2009 Kent L. Knoernschild......2010 Stephen F. Rosenstiel...........2011 J. Robert Kelly.....2012

\* Deceased



# DR. J. ROBERT KELLY President, 2011-2012

Welcome to the finest assembly in the world of folks having an interest in fixed prosthodontics! We are especially proud of and grateful for the continued participation of so many quest doctors. It is for you, along with our members, that the Academy assembles such outstanding programs. Guest doctors are the lifeblood of this annual meeting and we do welcome your presence and participation. It is wonderful to see so many of you year after year. If there is anything the Academy can do to make your experience more rewarding, I want to hear about it personally! Program Chairs Goodacre and Holloway have invited an exceptional group of experts to address Emerging Technologies and Strategies. We will all benefit from being exposed to their ideas and progressive accomplishments. Our Poster Session continues to grow and to attract top students from around the world - please take time to meet them, learn of their research, and assess the strength of our future. Tylman Research awardees are included as Poster Session presenters this year, so look out for them there. Sponsors and exhibitors are an extremely important component of a successful AAFP meeting as well, and you are encouraged to take advantage of their presence.

Our Board of Directors and Officers are engaged in positioning the Academy for the future via a timely internal re-examination of our business model and structure, along with envisioning where we should be into the next decade. While our annual meeting will likely remain unchanged with an emphasis on superb CE content and member/guest fellowship, there are likely to be elements available digitally in real time and stored archivally. New AAFP-branded CE content is likely to become available drawing on the enormous expertise within our membership for education in practice, technology, and science relevant for those holding a serious interest in fixed prosthodontics. We are also exploring the development of satellite meetings to make AAFP content available in Europe, Asia and South America. If you have ideas along these lines or would like to become involved in such developing projects, please speak to any member of the Board or any officer. Together we will continue to keep the Academy a vital organization, providing leadership to the profession.

Lastly, enjoy Chicago and the opportunities to catch up with treasured colleagues and to form new friendships through the Academy. New members and guests, please do not be shy about introducing yourselves to our speakers or to members you may only know from the literature. Our meeting is structured to facilitate such socialization and this remains a primary rationale for holding a "physical" session versus simply providing web-based CE. Let us all take advantage of this wonderful gathering of high quality and like-minded people!

J. Robert Kelly, President

# OFFICERS AND DIRECTORS 2011-2012 STANDING COMMITTEES 2011-2012 AMERICAN ACADEMY OF FIXED PROSTHODONTICS

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Dr. J. Robert Kelly University of Connecticut Health Center 263 Farmington Avenue Farmington, Connecticut 06030-1615 Phone: 860-679-3747 Email: kelly@nso1.uchc.edu

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Dr. Hiroshi Hirayama One Kneeland Street, DHS-248 Boston, MA 02111-1527 Phone: 617-636-6598 Email: hiroshi.hirayama@tufts.edu

Dr. Stanley Vermilyea 1118 Abington Court Westerville, OH 43082-7442 Phone: 614-899-25734 Email: svermily@columbus.rr.com

# **DIRECTOR 2014**

Dr. David Burns Virginia Commonwealth University School of Dentistry, Dept. of Prosthodontics, P.O. Box 980566 Richmond, VA 23298-0566 Phone: 804-628-2245 Email: drburns@vcu.edu

Dr. Charles Goodacre School of Dentistry, Office of The Dean Loma Linda, CA 92350-0001 Phone: 909-558-4683 Email: cgoodacre@llu.edu

Dr. Gerry Santulli 1607 Noral Place, Alexandria, VA 22308 Phone: 703-360-0790 Email: gsantulli@cox.net

#### **WEBMASTER**

Dr. Radi Masri

Dept. of Endodontics, Prosthodontics and Operative Dentistry 650 W. Baltimore St., 6 North, Office #6253 Baltimore, MD 21201 Phone: 410-706-7047 Email: rmasri@umaryland.edu

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Kevin Plummer 2015

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#### CLAUDE R. BAKER TEACHING AWARD IN FIXED PROSTHODONTICS

Michael Myers 2012, Chair James Holton 2012 Soraya Villarroel 2013 Ariel J. Raigrodski 2014 Alvin Wee 2014

# INFORMATION TECHNOLOGY COMMITTEE

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#### COMMITTEE FOR THE GARVER-STAFFANOU PROSTHODONTIC RESIDENCY EDUCATOR AWARD

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#### Committee A:

Alvin Wee 2012, Chair Duane Douglas 2012 Shereen Azer 2012 Kevin Plummer, Ex Officio

#### **Committee B:**

Van Ramos 2013, Chair Kevin Plummer, Ex Officio

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## AD HOC COMMITTEE FOR Dental Laboratory Technician Support

Burney Croll, Chair Peter Lund Sarah Johnson

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SECRETARY FOR GUESTS

**Richard Jordan** 

### **MEETING DIRECTOR**

Jack Lipkin Ken Gehrke, Assistant

#### **CHAPLAINS**

Earl Stover Sarita Arteaga

#### ACP PROSTHODONTIC FORUM REPRESENTATIVES

Robert Kelly Carl Driscoll, Alternate

# PREVIOUS 1ST PLACE WINNERS OF THE TYLMAN AWARD

1979:	James N. Ciesco
1980:	Boris Schwartzman
1981:	Timothy O. Hart
1982:	Not awarded
1983:	David Alan Chance
1984:	Jeffrey L. Hudgins
1985:	George W. Kay
1986:	Anthony J. G. Dickinson
1987:	Izchak Bartzilay
1988:	Susan E. Brackett
1989:	Not awarded
1990:	Shane N. White
1991:	Not awarded
1992:	Not awarded
1993:	Louis Menegotto
1994:	Syed Faheem Rasool
1995:	Fonda G. Robinson
1996:	Paula K. Yliheikkila
1997:	Kevin H. O'Boyle
1998:	David G. Gratton
1999:	Douglas E. Ford
2000:	Reza Heshmati
2001:	Salman A. Lakhani
2002:	Periklis Proussaefs
2003:	Luis Keys
2004:	Vanessa Swain
2005:	Philip Tan
2006:	Kelly Copps Wood
2007:	Heather J. Conrad
2008:	Keith L. Guzaitis
2009:	Islam Khasawneh
2010:	Daniel Domagala

2011: Seok-Hwan Cho

\*date listed is date awarded - award adjudicated in the preceding year

Special thanks to the **Editorial Council of the Journal of Prosthetic Dentistry** for its ongoing support of the Tylman Research Program

# PREVIOUS MOULTON AWARD RECIPIENTS

- 1992: George H. Moulton
- 1993: Ernest B. Nuttall
  - Max Kornfeld
- 1994: Robert J. Nelson
- 1995: Everitt V. Payne
- 1996: Samuel E. Guyer
- 1997: Roland W. Dykema
- 1998: Herbert T. Shillingburg, Jr.
- 1999: Not awarded
- 2000: Lloyd L. Miller
- 2001: Ralph Yuodelis
- 2002: Robert S. Staffanou
- 2003: Maurice H. Martel
- 2004: Ronald D. Woody
- 2005: Charles J. Goodacre
- 2006: Kenneth Malament
- 2007: Stephen D. Campbell
- 2008: Don G. Garver
- 2009: Steven Aquilino
- 2010: Harold Litvak
- 2011: Bill B. Lefler

#### PREVIOUS BAKER AWARD RECIPIENTS

- 2002: Not awarded
- 2003: Alvin Wee
- 2004: Ariel Raigrodski
- 2005: Nyung G. Chang
- 2006: Patchnee Rungruanganunt
- 2007: Shigemi Ishikawa-Nagai
- 2008: Not awarded
- 2009: Nadim Baba
- 2010: Mijin Choi
- 2011: Lillian M. Mitchell

#### PREVIOUS GARVER-STAFFANOU PROSTHODONTIC RESIDENCY EDUCATOR AWARD RECIPIENTS

2010: Gerald Ziebert 2011: Carl Jerry Andres

#### PREVIOUS HONORARY MEMBERS

- 1956: Oscar P. Snyder
- 1958: Arthur O. Klaffenbach
- 1958: Ralph W. Malone
- 1959: George M. Hollenback
- 1961: Floyd A. Peyton
- 1976: Ralph Phillips
- 1976: Robert J. Nelsen

ANNUAL MEMBERS FELLOWSHIP

Members Annual Business Meeting with Pizza and Drinks

THURSDAY, FEBRUARY 23, 2012

4:00 - 5:00 PM

Early Registration for Members 4th Floor, Halsted Foyer

5:00 - 7:00 PM

Members Annual Business Meeting with Pizza and Host Bar 4th Floor, Marriott Ballroom

Attendance at these events is restricted to Academy Members only.

Past Presidents' and New Members' Breakfast

SATURDAY, FEBRUARY 25, 2012 7:00 AM, Lincolnshire Room Salon I & II (6th Floor)



New Members, Past Presidents, Officers, Directors Only Please.

# 2012 PROGRAM CO-CHAIRS

Dr. Charles Goodacre & Dr. Julie Holloway

# 2013 PROGRAM CO-CHAIRS





# Dr. John Agar & Dr. Radi Masri

# 2011 PROGRAM CO-CHAIRS



Dr. Ariel Raigrodski & Dr. John Townsend

#### Dr. Alejandro Peregrina, Chair Exhibits Committee

All breakfasts and coffee breaks are located in the Exhibit Hall, Salon III, 7th Floor

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Thommen Medical USA

Ultradent Products Inc.

Valley Dental Arts

Vident

Whip Mix Corporation

Zimmer Dental

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# POSTER PRESENTATIONS PROGRAM AAFP 2012

### The American Academy of Fixed Prosthodontics 61st Annual Scientific Session February 25, 2012 The Chicago Marriott Hotel Downtown

1- Title: Present Present Mentor Instituti	Applicatio (IDS) for R er 1: Dr. Areti Din er 2: Dr. Vassilion : Dr. Asterios on: University of National ar	n of Immediate Dentin Sealing Technique estoring Severely Damaged Posterior Teeth mitra Vrochari (Part Time Faculty) s Chronopoulos (Assistant Professor) s Doukoudakis of Athens, School of Dentistry, nd Kapodistrian
2- Title: Present Mentor Instituti	Orthodont Appliance er: Dr. Brian SI : Dr. Steve Bi on: Fort Gordor	ic Intrusion Using a Removable Interocclusal to Restore an Opposing Implant ighly rousseau n, GA: US Army. Prosthodontic Program
3- Title: Present Mentor Instituti	An Estheti Restoratio er: Dr. Fred Hai : Dr. CAPT Cu on: Navy Postg	<b>c Screw Channel Plug for Implant ns</b> rper urtis Werking raduate Dental School, Prosthodontic Program
4- Title: Present Mentor Instituti	Fluorescer Far-Visible er: Dr. Sheena : Dr. Steve Br on: Fort Gordor	nce of Teeth and Porcelain by Excitation with a and Near-UV light Allen rousseau n, GA: US Army, Prosthodontic Program
5- Title: Present Present Mentor Instituti	Addressin in a Bruxir er 1: Dr. Annie C er 2: Dr. Sarah P. : Dr. William on: Baylor Colle Graduate P.	<b>g Wear on Maxillary Fixed Complete Denture</b> ng Patient . Wilson Allen Nagy ege of Dentistry, Dallas, TX. rosthodontics
6- Title: Present Present Mentor Instituti	Diagnostic er 1: Dr. Dennis V er 2: Dr. Carlos S : Dr. William on: Baylor Colle Graduate P	<b>: Aid for Occlusal Analysis</b> Wagvespack Sevilla Nagy ege of Dentistry, Dallas, TX. rosthodontics
7- Title: Present Present Mentor Instituti	A Novel La Temporary er 1 Dr. Richard er 2: Dr. Mauree : Dr. William on: Baylor Colle Graduate P	aboratory Approach to Fabricating a / Fixed Detachable Prosthesis Derksen n R. Libby Nagy ege of Dentistry, Dallas, TX. rosthodontics

8- Title: Presenter: Mentor: Institution:	An Evaluation of One-Piece Milled and Two-piece Fiber Post and Core Dr. Carol Kim Dr. Nurit Bittner Columbia University, New York, NY, Prosthodontic Program
9- Title: Presenter: Mentor: Institution:	<b>Technique for Fabricating Custom Incisal Guide Table</b> Dr. Noah P Orenstein Dr. John Agar University of Connecticut, Prosthodontic Residency
10-Title: Presenter: Mentor: Institution:	Evaluation of Dimensional Accuracy of CAD/CAM Implant Components Dr. Fotini N Chrisopoulos Dr. George Shelby White Columbia University, New York, NY. Prosthodontic Program
11-Title: Presenter: Mentor: Institution:	<b>Blade Implant Complications – A Clinical Report</b> Dr. Ismail Okasha Dr. Carl Driscoll University of Maryland, Prosthodontic Program
12-Title: Presenter 1: Presenter 2: Institution:	The Effect of Cement Thickness and Metal Cores on Color of Lithium Disilicate Dr. Yi-Hua Niu Dr. Duane Douglas Southern Illinois University, School of Dentistry
13-Title: Presenter 1: Presenter 2: Mentor: Institution:	Marginal Fit of Lithium Disilicate Copings Fabricated from Definitive Casts using VPS and Digital Impression Technique Dr. Carolina Cespedes Dr. Despoina Bompolaki Dr. William Nagy Baylor College of Dentistry, Dallas, TX. Graduate Prosthodontics
14-Title: Presenter: Mentor: Institution: E-mail:	Restoration of Periodontally Compromised Maxillary Arch – A Staged Approach Dr. Lauren Bolding Dr. Carl Driscoll University of Maryland, Prosthodontic Program lauren.bolding@gmail.com
15-Title: Presenter: Mentor: Institution:	Incorporating 3D Technologies in Digital Presentations Cumhur Yoruk - Visual Designer Dr. Wael Att University Hospital Freiburg, Germany. Dept of Prosthodontics

16-Title:	Evaluation of Fracture Resistance of Monolithic Disilicate Customized Implant Abutments
Presenter:	Dr. Techkouhie Hamalian
Mentor:	Dr. Anthony Randi
Institution:	Columbia University, New York, NY. Prosthodontic Program
17-Title:	Case Report: Innovative Approach to Restoration of a Compromised Implant with Cast Post and Core and Crown Placement
Presenter:	Dr. Paul Romriell
Mentor:	Dr. John Levon
Institution:	Indiana University, Indianapolis, IN. Prosthodontic Program
18-Title:	Marginal Fit of Crowns Fabricated Using CAD-Wax or Conventional Waxing Technique
Presenter:	Dr. David Lalande
Mentor:	Dr. COL John Brousseau
Institution:	Fort Gordon, GA: US Army, Prosthodontic Program
19-Title:	Prosthodontic Treatment Difficulties in Myotonic Muscular Dystrophy (MMD) Patient
Presenter:	Dr. Yinghan Tan
Mentor:	Dr. Carl Driscoll
Institution:	University of Maryland, Prosthodontic Program
20-Title:	Is Lateral Cephalometric Evaluation Necessary for Prosthodontic Treatment?
Presenter:	Dr. Gillian Brewer Alexander
Mentor:	Dr Carl Driscoll
Institution:	University of Maryland, Prosthodontic Program
21- Title:	Additive Manufacturing Technologies in Dentistry: An Update
Presenter:	Siegbert Witkowski MDT
Institution:	University Hospital Freiburg, School of Dentistry,
	Freiburg, Germany
22- Title:	Inhibition of the Polymerization of PVS in the New Latex-Free Dentistry
Presenter 1:	Dr. Silvia Amaya-Ajares
Presenter 2:	Dr. Alex Delgado
Mentor:	Dr. Terrance Donovan
Institution:	University of North Carolina
23-Title:	Inflammatory and Microbial Profile of Gingival Crevicular Fluid Around a Novel Pontic Design
Presenter 1:	Dr. Tzur Gabi
Presenter 2:	Dr. Alireza Moshaverinia
Mentor:	Dr. Winston Chee
Institution:	University of Southern California, Los Angeles, CA.

24- Title: Presenter 1: Presenter 2: Mentor: Institution:	Effects of Implant Abutment Surface Roughness and Cement Types on Retention of Crowns Dr. Jenn-Hwan Chen Dr. Taylor Goggins Dr. William Nagy Baylor College of Dentistry, Dallas, TX. Graduate Prosthodontics
25- Title: Presenter: Mentor: Institution:	Mandibular Implant Supported Fixed Dental Prostheses with Modified Orientation Non-Rigid Connector Attachment Dr. Anna Manzotti Dr. John Agar University of Connecticut, Prosthodontic Program
26- Title: Presenter 1: Presenter 2: Mentor: Institution:	<b>CAD/CAM Comparison</b> Dr. Paul Zhivago Dr. Igor Chikunov Dr. Leila Jahangiri and Dr. Farhad Vahidi New York University, College of Dentistry, Prosthodontic Residency
27- Title: Presenter: Institution:	An Indirect Technique for Assuring Simplicity/Marginal Integrity of Provisional Restorations During FMR Dr. Youssef S. Al Jabbari King Saud University, College of Dentistry, Riyadh, Saudi Arabia
28- Title: Presenter: Mentor: Institution:	Screw Loosening and Fracture: Redesign and Remake of Maxillary Screw Retained FPDs Dr. Guillermo Zapata Dr. John Agar University of Connecticut, Prosthodontic Program
29- Title: Presenter: Mentor: Institution:	Bond Strength Between Lithium Disilicate Occlusals and Nano-Hybrid Composite Teeth on Hybrid Prostheses Dr. Andres Pappa Dr. J. Hochstedler Louisiana State University, School of Dentistry, Prosthodontic Program
30- Title: Presenter 1: Presenter 2: Mentor: Institution:	A Bi-Phasic Approach in Maintaining an Edentulous Patient in an Implant Retained Provisional Dr. Jack Goldberg Dr. Tzur Gabi Dr. Winston Chee University of Southern California, Los Angeles, CA Prosthodontic Program

31- Title: Presenter: Mentor: Institution:	Implant-Supported Full Arch Provisional as an Orthotic Device for Splint Therapy Dr. Weigiang Loke Dr. Stephen Haney University of Texas, San Antonio, TX
32- Title: Presenter: Mentor: Institution:	Software Capabilities of Sirona Inlab Machine in Design of Ceramic Milled Prostheses Dr. Tawfiq Hazboun Dr. CAPT Curtis Werking Navy Postgraduate Dental School, Prosthodontic Program
33- Title: Presenter: Mentor: Institution:	Esthetic Alternative to Implant Restorations: Rotational Path RDP Used in Conjunction with a Non-Rigid Connector FDP Dr. Bridget Willet Wenning Dr. John Agar University of Connecticut, Prosthodontic Program
34- Title: Presenter: Mentor: Institution:	<b>State of The Art of Digital Intraoral Impressions</b> Dr. Sebastian B. M. Patzelt Prof. Dr. Joerg Strub University Hospital Freiburg, Germany. Dept of Prosthodontics
35- Title: Presenter 1: Presenter 2: Mentor: Institution:	Effect of Loading Conditions on the Fracture Toughness of Alumina and Zirconia Dr. Kosuke Harada Dr. Yasuo Hatano Dr. Shinya Akiyoshi The Nippon University, School of Life Dentistry at Tokyo, Department of Crown and Bridge
36- Title: Presenter: Mentor: Institution:	Full Mouth Rehabilitation of a Patient with Ectodermal Dysplasia with Implant Supported Fixed Prosthesis: A Clinical Report Dr. Alireza Moshaverinia Dr. Winston Chee University of Southern California, Los Angeles, CA. Prosthodontic Program
37- Title: Presenter: Mentor: Institution:	Fabrication of a Mandibular Implant Surgical Guide That Is Stabilized by the Maxilla Dr. Walter D. Thames Dr. CAPT Curtis Werking Navy Postgraduate Dental School, Prosthodontic Program

38- Title: Presenter: Mentor: Institution:	<b>Branemark Novum Revisited: Maintenance and Recall</b> Dr. Maria Eager Dr. William Nagy Baylor College of Dentistry, Dallas, TX. Graduate Prosthodontics
39- Title:	Comparison of Lithium Disilicate (IPS emax CAD) Microstructure Crystallized in Microwave Oven to Conventional Oven
Presenter: Mentor: Institution:	Dr. Kamolphob Phasuk Dr. Edward Monaco University at Buffalo, School of Dental Medicine, NY. Prosthodontic Program
40- Title:	Diagnostic Provisionalization Utilized in Determining Proper Emergence Profile
Presenter:	Dr. Sumana Posritong
Mentor:	Dr. John Levon
Institution:	Prosthodontic Program
41- Title:	A Novel Full Mouth Implant Supported Rehabilitation – The Zirkonzahn Technique
Presenter:	Dr. Mamta Mehra
Mentor:	Dr. Farhad Vahidi Now York University, New York, NY
וווגנונענוטוו.	Prosthodontic Program
42- Title: Presenter:	Developing Soft Tissue Contours on an Implant Dr. Sloan McLaughlin
Mentor: Institution:	Dr. Servando Ramos Fort Gordon, GA, US Army, Prosthodontic Program
43- Title:	A Simple Technique to Determine the Bone Width Prior to Implant Placement
Presenter:	Dr. Mosa Altassan
Mentor:	Dr. Edward Monaco
וווגנונענוטוו.	Prosthodontic Program
44- Title:	The Effect of Grooves on the Load to Dislodgement of Procera Crowns – First Place Tylman Award Winner 2012
Presenter:	Dr. Monica Parekh
Mentor:	Dr. Radi M. Masri
P. Director:	Ur. Carl Uriscoll University of Manuland, Prosthedentic Program
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45- Title:	A Study of the Effects of Finish Line Design and Digital Die Spacer on the Marginal Adaptation of Milled Titanium Crowns – Second Place Tylman Award Winner 2012
Presenter: Mentor: P. Director: Institution:	Dr. Brandon D. Kofford Dr. Barry K. Norling Dr. Patrick A. Mattie San-Antonio, Air Force Prosthodontic Program
46- Title:	Volumetric Measurements of Removed Tooth Structure Associated with Various Prenaration Designs
Presenter: Mentor:	Dr. Afnan Fouzan Al-Fouzan Dr. Feam Tashkandi
Institution:	King Saud University, College of Dentistry, Riyadh, Saudi Arabia
47- Title:	In Vivo Color Relationships Between the Maxillary Central Incisor and Canine – Third Place Tylman Award Winner 2012
Presenter:	Dr. Marie Elena Falcone
Mentor: P Director	Dr. J. Kobert Kelly Dr. John Agar
Institution:	University of Connecticut, Prosthodontic Program
48- Title:	Effect of Surface Finish on the Color Stability of Glazed and Polished Ceramic Restoration
Presenter 1: Presenter 2:	Dr. Pablo Gutierrez
Mentor:	Dr. Eduardo Calderon
Institution:	University Finis Terrae, Santiago, Chile
49- Title:	Implant Supported Prosthesis for Edentulous Patients, Options and Future
Presenter:	Dr. Ramtin Sadid-Zadeh
Mentors:	Dr. Keith Kinderknecht and Dr. Daniel Givan
institution.	Prosthodontic Program
50- Title:	Fluorescence Emitted by Different Shades and
Presenter 1:	Dr. Gustavo Mahn
Presenter 2:	Dr. Ignacio Cifuentes Dr. Eduardo Caldorop
Institution:	University Finis Terrae, Santiago, Chile

#### THE AMERICAN ACADEMY OF FIXED PROSTHODONTICS SIXTY-FIRST ANNUAL SCIENTIFIC SESSION FRIDAY, FEBRUARY 24, 2012

#### EMERGING TECHNOLOGIES & STRATEGIES

- 7:00 a.m. Registration, 7th Floor Foyer Continental Breakfast in Exhibit Hall, Salon III
- 8:00 a.m. WELCOME: Dr. J. Robert Kelly, President
- 8:10 a.m. Introductory Remarks, Dr. Charles Goodacre and Dr. Julie Holloway, Program Co-chairs
- 8:15 a.m. Dr. Werner Mörmann A Perspective on the Development of CAD/CAM Restorations
- 9:00 a.m. Dr. Andy Koenigsberg Evaluating the In-Office CAD/CAM Lab – An Analysis of Costs & Benefits
- 9:45 a.m. REFRESHMENT BREAK IN THE 7th FLOOR EXHIBIT HALL All members, guests and students invited
- 10:15 a.m. Dr. Lyndon Cooper Innovations & Applications of CAD/CAM Technology to Clinical Prosthodontics
- 11:00 a.m. Dr. Ariel Raigrodski Zirconia Based Restorations: What Have We Learned?
- 11:45 a.m. ANNUAL MEMBER GUEST LUNCHEON 5th Floor Chicago Ballroom
- 1:45 p.m. Dr. Clark Stanford Emerging Strategies for Treating Patients with Craniofacial Anomalies
- 2:30 p.m. Dr. Jaime Lozada New Technologies in the Surgical Placement of Dental Implants & Associated Surgical Procedures
- 3:15 p.m. REFRESHMENT BREAK IN THE 7th FLOOR EXHIBIT HALL All members, guests and students invited
- 3:45 p.m. Dr. W. Eugene Roberts, Jr. Emerging Technologies in Interdisciplinary Care
- 4:30 p.m. Dr. Alfonso Piñeyro & Dr. Chandur Wadhwani
  Emerging Technologies & Strategies: Implant Cementation
   Dentistry's Dirty Little Secret?
- 5:15 p.m. Closing Comments
- 5:15 ANNUAL MEMBER & GUEST COCKTAIL RECEPTION
- 7:00 p.m. Chicago Ballroom, 5th Floor All members, guests and students invited

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# THE AMERICAN ACADEMY OF FIXED PROSTHODONTICS SIXTY-FIRST ANNUAL SCIENTIFIC SESSION SATURDAY, FEBRUARY 25, 2012

#### EMERGING TECHNOLOGIES & STRATEGIES

- 7:00 a.m. Registration, 7th Floor Foyer Continental Breakfast In Exhibit Hall, Salon III
- 8:00 a.m. Dr. Cherilyn Sheets Quantitative Percussion Diagnostics: A New Dental Assessment Tool for Structural Integrity
- 8:45 a.m. Dr. Lawrence Brecht Mandibular Reconstruction & Rehabilitation: Innovation Through The Convergence of Technology and Collaboration
- 9:30 a.m. Dr. Michael Kahn Key Issues of Oral Screening Tools/Devices
- 10:15 a.m. REFRESHMENT BREAK IN THE 7th FLOOR EXHIBIT HALL All members, guests and students invited
- 10:45 a.m. Dr. David Gratton Current & Emerging Technologies in Dental Office Laboratory Design
- 11:15 a.m. Dr. Roger Levin New Strategies for Practice Success in a Changing Economy
- 12:00 p.m. ANNUAL POSTER SESSION & LIGHT LUNCHEON Food Served in the Fifth Floor Ballroom & 7th Floor Exhibit Hall (Exhibits will close at the start of the afternoon program)
- 2:00 p.m. Dr. Robert L. Frazer, Jr The Science of Emotional Intelligence, Its Affect on Leadership & Patient Acceptance
- 2:45 p.m. Dr. Rade Paravina Visual Shade Selection
- 3:30 p.m. Dr. Dan Nathanson Electronic Tooth-Color Measuring Devices: What They Can (& Cannot) Do for Us
- 4:00 p.m. POSTER AWARDS Dr. Sarit Kaplan, Posters Committee Chair
- 4:10 p.m. CLOSING REMARKS Dr. Julie Holloway, Program Co-chair Dr. J. Robert Kelly, President

For more Information about the Academy visit the AAFP Web site: www.fixedprosthodontics.org



# **DR. WERNER MÖRMANN** A Perspective on the Development of CAD/CAM Restorations

Friday, February 24, 2012 | 8:15 a.m.

#### Synopsis:

The development of CAD/CAM restorations specifically of CEREC ceramic reconstructions is based on the idea to replace metal by tooth-colored material in the oral cavity. In the 1980s dental porcelain and high-strength ceramics were the choice as alternatives. However, ceramics were available only via time-consuming firing. To make ceramics readily usable, new ways of processing had to be found.

The idea formed of a fast computer-aided chairside method to generate indirect ceramic restorations while the patient is seated. To achieve this, a 3D opto-electronical mouth camera and data processing system had to be developed to enable the custom machining of individually fitting restorations. The CEREC 1 concept comprised a small mobile CAD/CAM unit integrating a computer with a monitor and keyboard, track ball, foot pedal and 3D mouth camera as input devices as well as a machining compartment, as filed in a Swiss patent application by W. Mörmann and engineer M. Brandestini in December 1980. The challenge was to have all manufacturing components in one housing to make the system practical.

The original integrated technical concept carried through CEREC 1 and 2 versions. CEREC 2 was able to do partial and full crowns. My clinical team started doing anterior, premolar and molar crowns. In the year 2000, CEREC 3 was presented with the acquisition/design and milling functions housed in separate units. The machining unit was then equipped with a laser scanner, and could now be used by dental technicians independently (inLab). Additionally, an extra-oral scanner (inEOS) made the CEREC 3D optical system available for the dental laboratory.

Lecture Objectives

- Understand the basic idea behind the development of CEREC CAD/CAM
- Learn that CAD/CAM is highly flexible to be used chairside as well as labside
- Learn that CAD/CAM can automaticaly generate individually functional occlusal morphology using biogeneric software

#### **Curriculum Vitae:**

Begining in 1980, Dr. Werner Mörmann and Dr. Marco Brandestini solved the problems of: fast 3D capturing of tooth preparations with a mouth camera (1) and the fast custommachining of esthetic ceramic inlays, onlays and veneers (2). They completed the construction of the first CEREC 1 unit including the first operating software from 1981 to 1985. Dr. Mörmann bonded the first CEREC CAD/CAM inlay into the MOD molar cavity of a patient on September 19, 1985 at the U. Zurich Dental School, Switzerland. To produce a first series of 25 CEREC 1 units, Mörmann and Brandestini founded "Brains" Inc., Zurich, Switzerland. Cooperation with Siemens started in 1986 and continued with Sirona since 1997 to date.

Dr. Mörmann is a professor of operative dentistry, now retired but still active in doing research work in cooperation with his successor Dr. A. Mehl. He has published more than 150 articles and 10 books on chairside CAD/CAM technology and received the "Götz" (Medical Faculty, U. of Zurich) and the "Engel" (Academy of Continuing Education, Karlsruhe, Germany) awards. He is founder and president of the "Foundation for the Advancement of Computerized Dentistry" and has established the Department of Computer-based Restorative Dentistry at the U. Zurich Dental School.



# **DR. ANDY KOENIGSBERG** Evaluating the In-Office CAD/CAM Lab – An Analysis of Costs and Benefits

#### Friday, February 24, 2012 | 9:00 a.m.

#### Synopsis:

In the last 10 years, CAD/CAM technology has transformed the materials, workflow, skill set and economics of dental laboratory work. In this presentation, we will explore how these changes make the in-office CAD/CAM lab a viable option for many dentists. We will look at patient-care benefits, practice benefits and different business models for incorporating a CAD/CAM lab in the dental practice.

Objectives

- Understanding how CAD/CAM has changed the materials, workflow, skill set and economics of dental laboratory work.
- Understanding the equipment, personnel, space and cost involved in an in-office CAD/CAM lab.
- Understanding the patient-care and practice benefits gained with an in-office CAD/CAM lab.
- Review of different business models for incorporating an in-office CAD/CAM lab.

#### **Curriculum Vitae:**

Dr. Andrew Koenigsberg received his D.D.S. from Columbia University School of Dental and Oral Surgery in 1980, and completed a prosthodontic residency at Montefiore Hospital in 1983 where he earned a certificate in Prosthodontics. He has taught on graduate and post-graduate levels, and has been in private practice in Manhattan for the past 29 years.

Since "discovering" CAD/CAM in 2003, Dr. Koenigsberg has placed over 10,000 CAD/ CAM ceramic restorations. In 2006, he and his partners opened Gallery57Dental, which incorporated an in-office, CAD/CAM ceramics lab into the dental practice. Dr. Koenigsberg has lectured nationally and internationally, as well as published on digital ceramic restorations and CAD/CAM dentistry. He is the cofounder of CAD/CAM Excellence, an advanced education program for the dental community that was launched in 2010.



# **DR. LYNDON COOPER** Innovations and Applications of CAD/CAM Technology to Clinical Prosthodontics

# Friday, February 24, 2012 | 10:15 a.m.

#### Synopsis:

Is there a place in contemporary Prosthodontics for digital technologies that replace conventional impressions and laboratory procedures? The goal of this presentation is to consider the positive and negative aspects of creating tooth and implant restorations using currently available digital technologies. The main issues open for debate include an evidence-based discussion of quality of virtual impressions, waxing, occlusion, casts and the restorations that are created from them. However, consideration of process, work-flow, capital-equipment versus consumable materials investment and delegation of procedures are additional anticipated issues of interest to the practicing dentist. Direct digital dentistry offers opportunity for in-depth consideration of how single tooth restorations are realized in clinical practice.

Objectives:

- Understand the work flow of direct digital restoration as illustrated using the E4D system.
- Appreciate the multiple issues that confront the clinician in making decisions to deploy direct digital dental technologies in their practice.
- Acknowledge the current data that supports and/or refutes the use of digital technologies in the process of design, impression, manufacture, and provision of single tooth restorations.

#### **Curriculum Vitae:**

Dr. Lyndon Cooper D.D.S, Ph.D., is the Stallings Distinguished Professor of Dentistry of the Department of Prosthodontics at the University of North Carolina at Chapel Hill. He is currently chairperson, acting director of Graduate Prosthodontics and the director of the Bone Biology and Implant Therapy Laboratory. Dr. Cooper is a Diplomate of the American Board of Prosthodontics and served as the 2010 president of the American College of Prosthodontics. He received the ACP's 2004 Clinician/Researcher Award and the IADR's 2009 Distinguished Scientist Award for Prosthodontics and Implantology. Dr. Cooper's laboratory focuses on bone biology, adult stem cell bone regeneration, and clinical evaluation of dental implant therapies. The laboratory receives funding through NIH and by industry collaboration. Their research findings have been presented in over 90 publications and in more than 250 national and international presentations. These efforts integrate basic and clinical research to improve patient care.



# **DR. ARIEL RAIGRODSKI** Zirconia Based Restorations: What Have We learned?

# Friday, February 24, 2012 | 11:00 a.m.

#### Synopsis:

This presentation will discuss the mechanical as well as optical properties of zirconia, and the indications and limitations of zirconia-based restorations. The program will address the question of how the advent of CAD/CAM technology as well as veneering porcelain application techniques support the fabrication of these restorations. Comprehensive cases will be presented to demonstrate the use of zirconia-based restorations as part of an interdisciplinary treatment approach.

Objectives:

- To gain understanding of the unique properties of zirconia, and how it translates to its clinical usage including results of clinical studies.
- To describe the techniques and technologies available for fabricating zirconia-based restorations with the advent of CAD/CAM technology supports.
- To discuss the indications and limitations of zirconia-based restorations.

#### **Curriculum Vitae:**

Dr. Raigrodski is a tenured full professor and director of Graduate Prosthodontics at the Department of Restorative Dentistry at the University of Washington. He is a member of the editorial review boards of the Journal of Esthetic and Restorative Dentistry, the Journal of Prosthodontics, and the Journal of Prosthetic Dentistry. Dr. Raigrodski is a graduate of the Hebrew University in Jerusalem, Israel. He received his certificate in Prosthodontics at Louisiana State University School of Dentistry, where he also completed a fellowship in implants and esthetics, and an M.S. degree. He is a Diplomate of the American Board of Prosthodontics, a fellow of the American College of Prosthodontiss, a fellow of the American College of Dentists, a member of the American Academy of Fixed Prosthodontics, the Academy of Osseointegration and other professional organizations. Dr. Raigrodski's research is mainly clinical and focuses in all-ceramics and CAD/CAM technology. He lectures both nationally and internationally, and holds a private practice in Kenmore, WA.





Friday, February 24, 2012 | 11:45 a.m.

2012 STANLEY D. TYLMAN RESEARCH AWARDS\* Dr. Stan Vermilyea, Chair, Tylman Research Committee

FIRST PLACE AWARD Dr. Monica Parekh University of Maryland, Prosthodontic Program Research Supervisor: Dr. Radi M. Masri Program Director: Dr. Carl Driscoll

SECOND PLACE AWARD Dr. Brandon D. Kofford San-Antonio, Air Force Prosthodontic Program Research Supervisor: Dr. Barry K. Norling Program Director: Dr. Patrick A. Mattie

THIRD PLACE AWARD Dr. Marie Elena Falcone University of Connecticut, Prosthodontic Program Research Supervisor: Dr. J. Robert Kelly Program Director: Dr. John Agar

SPECIAL RECOGNITION FOR THEIR SERVICE TO THE ACADEMY Dr. Earl Stover, Academy Chaplain Dr. Wayne Campagni, Chair Historical Committee

CLAUDE R. BAKER AWARD FOR EXCELLENCE IN TEACHING PREDOCTORAL FIXED PROSTHODONTICS Dr. Michael Myers, Chair, Claude R. Baker Teaching Award Committee

> Dr. Judy C-C Yuan 2012 RECIPIENT

GARVER-STAFFANOU PROSTHODONTIC PROGRAM DIRECTOR'S AWARD FOR EXCELLENCE

Dr. Steve Morgano, Chair, Garver-Staffanou Award Committee

Dr. John R. Agar 2012 RECIPIENT

HONORARY MEMBER

Dr. Charles Gibbs 2012 INDUCTEE

GEORGE H. MOULTON AWARD OUTSTANDING ACHIEVEMENT IN THE ART AND SCIENCE OF FIXED PROSTHODONTICS

Dr. Martin Land, Chair, George H. Moulton Award Committee

Dr. Denny M. Smith 2012 Recipient

#### PRESENTATION OF NEW AAFP MEMBERS

Dr. Sangeetha Raghavendra, Chair, Credentials Committee

\*We wish to acknowledge the generous support of the Editorial Council of the Journal of Prosthetic Dentistry for the Tylman Research Program. **31** 



# **DR. CLARK STANFORD** *Emerging Strategies for Treating Patients with Craniofacial Anomolies*

# Friday, February 24, 2012 | 1:45 p.m.

#### Synopsis:

Patients often present with congenital and acquired tooth loss, and it is incumbent on the Prosthodontics team to diagnosis, educate and provide care plans that address the range of issues concerning the young adult needing tooth replacement therapy. The diagnostic phase is critical and involves an interdisciplinary team. This will lead to progressive care plans that engage removable, fixed and implant Prosthodontics. This presentation will review the critical points of assessment, key points to outline in the process of informed consent, and then provide clinical examples of care plans for the transitional adult in your practice.

Objectives:

- The diagnostic issues needed in addressing the issues of tooth loss in the young adult
- The range of treatment options for tooth replacement including advantages and challenges
- The outcomes of care when electing to perform tooth replacement in this population

#### **Curriculum Vitae:**

Dr. Stanford is the Associate Dean for Research and Centennial Fund Professor for Clinical Research, Dows Institute for Dental Research and Department of Prosthodontics, College of Dentistry, University of Iowa. He holds secondary appointments in the Department of Orthopaedic Surgery and the Department of Biomedical Engineering. Dr. Stanford received his B.S., D.D.S., Certificate in Prosthodontics and Ph.D. from the University of Iowa. He runs the Office for Clinical Research and is Director for the Nanoscience section of the NIH Institute for Clinical and Translational Sciences (ICTS) at the University. He is the author of 14 book chapters, 84 published papers and more than 170 published research abstracts. He is the recipient of 15 academic awards, including the 2007 State of Iowa Regents Award for Faculty Excellence and the IADR Distinguished Scientist Award (2007). He sees patients in an intramural practice at the university with an emphasis in Prosthodontics and management of congenital anomalies.



# **DR. JAIME LOZADA** *New Technologies in the Surgical Placement of Dental Implants and Associated Surgical Procedures*

## Friday, February 24, 2012 | 2:30 p.m.

#### Synopsis:

Recently with the introduction and accessibility of cone-beam computed tomography and the development of 3-dimensional dental implant treatment planning software programs, implant dentistry is rapidly moving towards precision and accuracy with 3-dimensional evaluation and placement of dental implants based on a prosthodonticaly driven plan. Along with these new technologies, a new generation of biomaterials used in specific surgical procedures is allowing the implant surgeon to place implants in areas never before considered. This presentation discusses the use of these technologies in the surgical placement of dental implants.

Objectives:

- Exposure to the most current technologies in the placement of dental implants
- Describe surgical protocols associated with the precise surgical placement of implants
- · Evaluate the application of biomaterials used in implant dentistry

#### **Curriculum Vitae:**

Dr. Lozada is a professor and director of the Graduate Program in Implant Dentistry at Loma Linda University, School of Dentistry. He completed his three year residency in implant dentistry in 1987 and his graduate prosthodontics certificate in 1995, both at Loma Linda University. He is the past president of the American Academy of Implant Dentistry and a member of the Editorial Board of the Journal of Oral Implantology. Dr. Lozada has been instrumental in training residents and fellows in the latest techniques in oral implant surgery and prosthodontics at the Center for Implant Dentistry at Loma Linda University School of Dentistry. Since its beginning over 30 years ago, Loma Linda University Implant Center is recognized as one of the pioneering institutions in Implant Dentistry and currently prides itself in aiding in the advancement of this exciting discipline of dentistry.

Dr. Lozada has been involved with implant dentistry for 20 years. He is an active member of the Academy of Osseointegration, a Fellow with the American Academy of Implant Dentistry, a Diplomate of the American Board of Implant Dentistry, a member of the Editorial Board of the Journal of Oral Implantology and member of other Prosthodontic and Implant Organizations.

Dr. Lozada has published and lectured nationally and internationally on implant dentistry. He maintains an intramural private practice limited to Implant Surgery and Prosthodontics.



# DR. W. EUGENE ROBERTS JR. Emerging Technologies in Interdisciplinary Care

# Friday, February 24, 2012 | 3:45 p.m.

#### Synopsis:

Partially edentulous patients, with acquired malocclusions and/or TMJ degeneration, impose limitations on optimal prosthodontic treatment. Emerging technologies in interdisciplinary care provide a variety of 3D options for improving the stomatognathic foundation in preparation for a more predictable restoration of esthetics and function. However, clinical procedures must be carefully considered relative to the limits of periodontal and bone physiology.

Objectives:

- Describe the physiologic mechanisms for development and correction of acquired malocclusions.
- Review the potential and limitations for bone and periodontal manipulation.
- Consider the pros and cons for utilizing orthodontics and dentofacial orthopedics to produce a more ideal stomatognathic foundation for fixed prosthodontics.

#### **Curriculum Vitae:**

Dr. Roberts received a D.D.S. from Creighton University, a P.h.D. in Anatomy from the University of Utah, and Clinical Certification in Orthodontics from the University of Connecticut. Docteur Honoris Causa (honorary doctorate in medicine) was awarded by the Faculty of Medicine, University of Lille II, Lille, France. He is a Fellow of the American College of Dentists, a Fellow of the International College of Dentists, a Diplomate of the American Board of Orthodontics (ABO), and an active member of the Midwest Component of the Angle Society. Dr. Roberts is Professor Emeritus of Orthodontics at Indiana University, Adjunct Professor of Mechanical Engineering at Purdue University School of Engineering and Technology, and Associate Professor of Maxillofacial Implantology in the Faculty of Medicine at the University of Lille in France. Dr. Roberts is active in the American Association of Orthodontists (AAO) as the Chairman of the Council on Orthodontic Education. He serves as a delegate and member of the Board of Directors of the Great Lakes Association of Orthodontists, and practices orthodontics with his son Jeffery in southeast Indianapolis at Roberts Orthodontics.com. Honors include U.S. Navy Commendation Medal with Combat V, Isaiah Lew Memorial Research Award - American Academy of Implant Dentistry Foundation, Jarabak Award for Orthodontic Education and Research - AAO Foundation. Salzmann Lecture - AAO Foundation, and the Dr. Dale Wade Award for Excellence in Orthodontics - ABO. Dr. Roberts has presented multiple endowed lectures and served as a visiting professor both nationally and internationally.



# DR. ALFONSO PIÑEYRO & DR. CHANDUR WADHWANI

Emerging Technologies and Strategies: Implant Cementation – Dentistry's Dirty Little Secret ?

Friday, February 24, 2012 | 4:30 p.m.

#### Synopsis:

Cement-retained implant restorations have become increasingly popular. The ability to manage esthetics, occlusion, passive fit, ease of construction and economics is very convenient, but does it come at a price? Evidence is emerging that cementation procedures may have a detrimental effect on the health of hard and soft tissues that support the implant.

This lecture explores these problems through a science based approach - highlighting problems with cement selection, application techniques, implant abutment design as well as offering guidance of appropriate recall assessment. New technologies with respect to abutment modification and prosthetics will be discussed as an alternative to this problem.

Objectives:

- Understand the biological, depth and restorative differences between Implants and teeth, that make the implant far more susceptible to cement issues, such as periimplant diseases.
- Cement selection criteria what is required from an implant cement and current scientific research on the physical and biological properties that the restorative dentist must take into account when choosing an implant cement.
- Prevention of cement induced periimplant disease- tips, techniques and alternatives.

#### **Curriculum Vitae:**

Dr. Alfonso Piñeyro received his dental degree from the Universidad Autonoma de Guadalajara in 1999. He then completed a 2 year AEGD in 2003 at the Eastman Dental Center in Rochester, New York, where he also completed his Prosthodontic specialty program in 2006. He is currently in a private practice limited to prosthodontics in Bellevue, Washington. He is also affiliate faculty at the University of Washington.

Dr. Piñeyro holds memberships in several dental organizations including the America Dental Association, American Prosthodontic Society, American College of Prosthodontists, Eastside Dental Specialists Group, Washington State Dental Society and the Washington State Society of Prosthodontists. He is currently president of the Washington State Society of Prosthodontists. Dr. Piñeyro has authored several publications in peer reviewed journals. He has lectured nationally and internationally on several topics related to clinical prosthodontics and implant dentistry.

Dr. Wadhwani is past president of the Washington State Society of Prosthodontists, as well as past president of the Tucker 60th study club. He has lectured nationally and internationally on topics related to clinical prosthodontics and implant dentistry. Dr. Wadhwani has authored several publications in peer reviewed journals. He is involved in several research projects with Graduate Periodontics, Graduate Endodontics and the Restorative Department at the University of Washington.

Dr. Chandur Wadhwani received his undergraduate and dental degree from the University College London School of Dentistry in 1986. He graduated top of his class and was awarded honors and distinction in Dental Surgery. He then received his specialty certificate in prosthodontics with a master's degree from the University of Washington School of Dentistry in 2004. While in London, he lectured at the University College London School of Dentistry as a part time clinical lecturer in the restoration department. Dr. Wadhwani is currently an affiliate instructor in the Department of Restorative Dentistry at the University of Washington.



**DR. CHERILYN SHEETS** *Quantitative Percussion Diagnostics: A New Dental Assessment Tool for Structural Integrity* 

#### Saturday, February 25, 2012 | 8:00 a.m.

#### Synopsis:

During the last decade, a new technology has been explored that will give additional diagnostic information to the clinician. Quantitative percussion testing allows a clinician to evaluate the structural stability of natural teeth or dental implants by measuring the way it responds to a light impact on the buccal surface. The energy that is returned to the handpiece is analyzed in a manner that provides two pieces of information—the loss coefficient (LC) and an energy-return graph (ERG) of the structure tested. These two pieces of information can give the clinician indications of how sound the tested structure is and whether there are problems such as dentinal cracks and fractures, microleakage, recurrent decay, loose post and cores and other structural defects. By having an indication as to how a tooth or implant responds to mechanical problems where abnormal ERG's are observed. ERGs also help patients understand the bioengineering challenges that some teeth present due to crack propagation and other serious biomechanical problems. Combined with video documentation of the defect, it creates powerful documentation and a patient educational tool simultaneously.

Objectives:

- To highlight the biomechanical importance and interaction of oral structures and their restorations.
- To better understand how percussion can be a diagnostic risk assessment aid.
- To explore the effectiveness of current diagnostic modalities to evaluate structural stability of teeth and implants.

#### **Curriculum Vitae:**

Dr. Cherilyn Sheets maintains a full-time private practice in Newport Beach, California for esthetic rehabilitative dentistry. She is an international educator, clinician, author, and lecturer, and received the 2002 Gordon Christensen Award for Excellence in Lecturing, the 2004 USC School of Dentistry Alumnus of the Year Award, the 2006 Section Honor Award (Distinguished Dentist Award) from the California Section of the Pierre Fauchard International Honor Dental Academy, and the 2008 Dr. Edward B. Shils Entrepreneurial Education Fund Award. She is a past president of the American Academy of Esthetic Dentistry and the American Association of Women Dentists.

Dr. Sheets is Co-Executive Director of the Newport Coast Oral Facial Institute, a Clinical Professor of Restorative Dentistry at the University of Southern California, Chairman Emeritus of The Children's Dental Center, and Founding Chairman of the National Children's Oral Health Foundation. With the University of California Irvine (UCI) School of Engineering, she is leading research on energy dissipation in teeth and implants with James C. Earthman, Ph.D.



# **DR. LAWRENCE BRECHT**

Mandibular Reconstruction & Rehabilitation: Innovation Through The Convergence of Technology and Collaboration

# Saturday, February 25, 2012 | 8:45 a.m.

#### Synopsis:

Traditionally, the patient who had undergone mandibular resection was considered perhaps the most difficult patient to prosthetically rehabilitate and was considered, "the forgotten patient." Surgical advances in microvascular free-flap tissue transfer techniques made it possible to reconstruct these patients, yet few proceeded to a functional prosthetic rehabilitation. While form and contour may have been crudely restored with this technique, the procedure was still surgically-driven and the prosthetic phase was considered secondarily, if considered at all. Our surgical colleagues working independently often arrived at treatment plans without consideration of the concerns of their prosthodontic partners. The development of computer-aided, three dimensional planning along with computer-fabricated surgical splints and cutting jigs now allow for a prosthetically-driven, occlusally-based rehabilitation in combination with unprecedented precision in surgical reconstruction of form and function. The culmination of technology employed in an active multidisciplinary team setting has resulted in the ability to deliver an implant-supported prosthetic rehabilitation for the mandibular resection patient during a single reconstructive surgical episode. This presentation reviews the evolution of the collaborative effort of our team of an oral and maxillofacial surgeon, a microvascular plastic surgeon and a maxillofacial prosthodontist in optimizing the outcomes in our mandibular resection patients.

Objectives:

- Provide a review of the history and advancement of mandibular reconstruction.
- Outline in detail the current state of mandibular reconstruction and prosthetic habilitation.
- Describe the benefits of interdisciplinary virtually planned and prosthetically-driven functional mandibular reconstruction and rehabilitation.

#### **Curriculum Vitae:**

Lawrence E. Brecht, D.D.S., is Clinical Associate Professor of Prosthodontics and Occlusion at New York University College of Dentistry where he serves as the Director of Maxillofacial Prosthetics in the Advanced Education Program in Prosthodontics. He has a joint appointment at the Institute of Reconstructive Plastic Surgery of New York University School of Medicine where he is Director of the Dental Services and serves on the Institute's Cleft Palate. Craniofacial and Ear Anomalies teams. In addition, he serves on the Executive Committee of the Institute. Dr. Brecht received his D.D.S. from New York University and completed a residency at Boston's Brigham & Women's Hospital and a Fellowship at Harvard School of Dental Medicine. He then earned his Certificates in both Prosthodontics, as well as Maxillofacial Prosthetics from the New York Veterans Administration Hospital. Dr. Brecht is a member of the American College of Prosthodontists, and served on its Board of Directors. He is the President-elect of the American Academy of Maxillofacial Prosthetics and is a Fellow of the Academy of Prosthodontics, the Vice-President of the Greater New York Academy of Prosthodontics and a member of the American Cleft Palate/Craniofacial Association. He is also a member of the Board of Directors of Forward Face-a charitable organization that supports children with craniofacial conditions and their families. He is a frequent contributor to the cleft, plastics and maxillofacial literature. He maintains a practice limited to prosthodontics and maxillofacial prosthetics in New York City.



# DR. MICHAEL KAHN Key Issues of Oral Screening Tools/Devices

# Saturday, February 25, 2012 | 9:30 a.m.

#### Synopsis:

In the past few years various adjunctive oral mucosal screening devices have become available for the clinician to consider purchasing. Each has capabilities and limitations and none are diagnostic but, instead, require a fundamental knowledge of oral pathology terminology, differential diagnosis formulation as well as proper technique for the conventional oral soft tissue examination technique. The various classes and types of these emerging technologies will be critically examined in an unbiased manner so that the clinician and other participants in the dental health care delivery system can decide which, if any of the devices/tests are the best match for the practice of dentistry in his/her office.

Objectives:

- know and understand the difference between oral screening and diagnosis of squamous cell carcinoma and other oral pathology.
- learn the types, mechanisms, capabilities, and disadvantages of currently available adjunctive oral mucosal screening tools/devices.
- know the proper protocol for effective oral screening and subsequent diagnosis or observation of suspected oral pathology.

#### **Curriculum Vitae:**

Dr. Michael A. Kahn is a tenured Professor and Chairman of the Department of Oral and Maxillofacial Pathology at Tufts University School of Dental Medicine and Laboratory Director of Tufts Oral Pathology Services. He also is a Professor at Tufts School of Medicine and maintains a university-based consultative oral medicine/oral pathology clinical practice and has conducted intramural and extramural funded basic and clinical research. He has been a diplomate of the American Board of Oral and Maxillofacial Pathology since 1989 and currently is serving as President of the American Academy of Oral and Maxillofacial Pathology.

Dr. Kahn graduated from Emory University's School of Dentistry in 1979. Following several years of military and private practice, he returned to Emory for a 3-year residency training in oral pathology. He then completed a one-year postdoctoral research fellowship in oral pathology at Temple University's School of Medicine. In 1988, he accepted a faculty position at the University of Tennessee-Memphis College of Dentistry. While at Tennessee, Dr. Kahn was a three-time recipient of the UT Health Science Center's 'Excellence in Teaching' award and was selected by his peers to receive the UT College of Dentistry Distinguished Faculty award. In 2002, he accepted a tenured senior faculty position at Tufts and, in 2005 as well as in 2009, he was awarded the Dean's Excellence in Teaching Award.

Dr. Kahn has published more than 80 articles and abstracts in professional journals and is the author of a dental therapeutics book and editor of the oral medicine part 2 section of Lexi-Comp's "Drug Information Handbook for Dentistry". Dr. Kahn has given over 400 invited presentations and continuing education courses, including numerous on oral cancer, and has produced several educational multimedia series on a wide variety of oral and maxillofacial pathology topics including oral cancer for EDIC. He serves on several studing and advisory committees of the American Dental Association and is a member of the American Association of Dental Research and American Dental Education Association. He is a Fellow of the American College of Dentists, American College of Dentists, and the Pierre Fauchard Academy. He also serves on the editorial board of the peer-reviewed journals Oral Surgery Oral Medicine Oral Pathology Oral Radiology and Endodontology, Journal of Oral and Maxillofacial Surgery, and Inside Dentistry.



# **DR. DAVID GRATTON** *Current and Emerging Technologies in Dental Office-Laboratory Design*

# Saturday, February 25, 2012 | 10:45 a.m.

#### Synopsis:

Clinical prosthodontics is evolving because a variety of digital technologies are supplanting the ingrained analog techniques with which we are so comfortable. Are these new technologies jeopardizing the role of the dental technologist as a member of the team? Or will these new prosthodontic technologies bring the dental technologist into all our offices virtually, enhancing both the dentist-technician communication and teamwork, and ultimately improving patient care?

The goals of the presentation are to:

- Assess the traditional dental laboratory-clinic relationship
- Discuss the crisis facing dental technology today
- Explore the possibilities in the modernization of the prosthodontic clinic-laboratory interface

#### **Curriculum Vitae:**

Dr. Gratton is an Associate Professor, Department of Prosthodontics, and Clinical Director, Center for Implant Dentistry, at The University of Iowa. Dr. Gratton received his D.D.S. from The University of Michigan then his Certificate in Prosthodontics and M.S. from The University of Iowa. He is an Associate Fellow of the Academy of Prosthodontics and Fellow of the International Team for Implantology. His scholarly activity includes evolving digital technologies and CAD/CAM materials. He is a past recipient of the American Academy of Fixed Prosthodontics Stanley D. Tylman Research Award. He is Chairman of the ADA's SCDP Working Group on CAD/CAM Implant Surgical Guides. Dr. Gratton participates in an intramural prosthodontic practice at The University of Iowa.



# **DR. ROGER LEVIN** *New Strategies for Practice Success in a Changing Economy*

# Saturday, February 25, 2012 | 11:15 a.m.

#### Synopsis:

The economy has changed and prosthodontists need to change with it. Learn exclusive strategies you can't get anywhere else for taking your prosthodontic practice to the next level. This ground breaking new seminar is presented by Roger P. Levin, D.D.S., the foremost authority on dental practice management and referral marketing.

Objectives

- Increase Production For Cosmetic Procedures
- Get More Referrals For Implants, As Well As Other Services
- Increase Case Acceptance

#### **Curriculum Vitae:**

Dr. Roger P. Levin is Chairman and Chief Executive Officer of Levin Group, Inc., the leading dental consulting firm. Levin Group delivers premier practice management and marketing solutions that result in Total Practice Success<sup>™</sup> for dentists and specialists in the U.S. and around the world. A third-generation dentist, Dr. Levin is one of the profession's most sought after speakers, bringing his seminars to dental professionals worldwide. For more than 25 years, Dr. Levin and Levin Group have been dedicated to improving the lives of dentists.



# DR. ROBERT L. FRAZER JR.

The Science of Emotional Intelligence, Its Affect on Leadership and Patient Acceptance

# Saturday, February 25, 2012 | 2:00 p.m.

#### Synopsis:

Research from Harvard and Rutgers Universities shows that 75% of exceptional leaders' success is the result of Emotional Intelligence, while only 25% comes from necessary technical competency. Every major discretionary purchase is first and foremost an emotional decision. As prosthodontists, we are called upon to solve complex restorative problems often overlaid with our patient's emotions. Thus, effective leadership of a prosthodontic practice demands emotional competency.

Objectives

- Understand the science and application of Emotional Intelligence for practice success.
- Discover what research has shown are the six styles of highly effective leaders.
- Dramatically raise case acceptance through elevated E.I.
- Introduce an E.I. strategy for solutions-oriented conflict resolution.
- Learn how to raise your E.I.

#### **Curriculum Vitae:**

Dr. Frazer is a graduate of the University of Texas Dental Branch (Houston), Past President of The Texas Society for Preventive Dentistry, The American and Texas Academies of Dental Practice Administration, former Assistant Clinical Professor Department of Community Dentistry University of Texas Health Science Center at San Antonio, Former Adjunct Professor University of Texas College of Pharmacy, served on the Blue Ribbon Advisory Panel for the Council on Dental Practice of the ADA and formerly on the Editorial Board of Dental Economics magazine.

He is a Fellow in the American and International College of Dentists, a member of the National Speakers Association, American Dental Association, Texas Dental Association, Academy of General Dentistry, The American Equilibration Society, and The L.D. Pankey Institute Alumni Association. A 1995 nominee by The Texas Academy of General Dentistry for Texas Dentist of the Year. He is also a Past Distinguished President of Northwest Kiwanis, a former Boy Scout Leader, Junior League Basketball Coach, and Lay Minister. He cofounded the Rocky Mountain Rendezvous in Health Centered Dentistry and is Past President of The Bob Barkley Foundation.

Dr. Frazer is the founder and President of R.L. Frazer & Associates, Inc., a consulting organization dedicated to assisting those in dentistry as well as other business sectors create their future of choice.



# **DR. RADE PARAVINA** *Visual Shade Selection*

# Saturday, February 25, 2012 | 2:45 p.m.

#### Synopsis:

This presentation will emphasize principles and fundamentals that are essential to master a plan for a successful color matching in both office and dental lab, together with the stepby-step instructions. Resources for color education and training and contemporary shade matching tools will be discussed. Examples and practical suggestions related to shade matching conditions and method will be provided, including the latest changes in approach that are being recommended by the presenter. The material will be appropriate for both dentists and technicians. Beginners will benefit from a good start in esthetic dentistry; more experienced participants will benefit from the opportunity to re-consider and adjust their approach and strategies in color matching.

Objectives:

- List three desirable color-related properties of dental materials
- Evaluate possible dentist-related sources of error in shade matching
- Discuss resources for color education and training
- Describe and contrast advanced shade guides
- Describe shade matching method

#### **Curriculum Vitae:**

Rade D. Paravina, D.D.S., M.S., Ph.D. is an Associate Professor at the University of Texas Dental Branch at Houston and Acting Director of Houston Center for Biomaterials and Biomimetics (HCBB. He has authored/co-edited two books: Fundamentals of Color: Shade Matching and Communication in Esthetic Dentistry (Quintessence Publishing 2011) and Esthetic Color Training in Dentistry (Elsevier 2004), two software programs, one educational CD, and more than 150 other peer-reviewed publications.

Dr. Paravina designed/developed several dental products and tests. Together with Vita Zahnfabrik he designed two shade guides, Linearguide 3D Master and Bleachedguide 3D Master. The University of Texas Health Science Center at Houston has executed licensing agreements with Vita Zahnfabrik dealing with commercialization of these two shade guides. He has developed Dental Color Matcher, a free online educational and training program for esthetic dentistry, and the scientific protocol for evaluating "chameleon effect" of dental materials

Dr. Paravina is Founder and Past President of the Society for Color and Appearance in Dentistry (SCAD) and Editor of the Journal for Color and Appearance in Dentistry. He also serves as editorial board member for the Journal of Dentistry, Journal of Esthetic and Restorative Dentistry, and the American Journal of Dentistry.

Dr. Paravina lectures nationally and internationally on various topics associated with color and appearance in esthetic dentistry.



**DR. DAN NATHANSON** Electronic Tooth-color Measuring Devices: What They Can (and Cannot) Do for Us

# Saturday, February 25, 2012 | 3:30 p.m.

#### Synopsis:

During the last decade a number of electronic color measuring devices have been introduced to the market. Their level of acceptance was somewhat disappointing, due to various factors, including cost, complex operation, and disappointing results. The presentation will review current systems and point out their relevance to prosthodontics. The potential benefits of current systems and future developments will be discussed.

Objectives:

- Become familiarized with current electronic color measuring technology.
- Learn what dental color measurement equipment can and cannot do.
- Learn the benefits from use of computerized color measurement in dentistry vs. reliance on the human eye.
- Learn of future potential uses of dental photospectrometers, i.e. automatic selection of restorative materials

#### **Curriculum Vitae:**

Dr. Dan Nathanson is Professor and Chairman of the Department of Restorative Sciences & Biomaterials at Boston University, a department comprising the programs of Prosthodontics, Advanced Operative/ Esthetics, AEGD and Biomaterials. Member of the American College of Prosthodontists he also holds fellowships in the Academy of Prosthodontics, American Academy of Esthetic Dentistry (President), Academy of Dental Materials, and more. He is President Elect of the Prosthodontic Research Group at AADR/IADR. With a primary research interest in restorative/ prosthetic materials, and has published extensively. He lectures internationally.



**DR. STEVEN M. MORGANO** *Restoring pulpless teeth—Do traditional principles still apply?* 

# **RESERVE SPEAKER**

#### Synopsis:

Guidelines for restoring pulpless teeth are well established; nevertheless the principles behind these guidelines were developed decades ago primarily from in vitro studies or retrospective studies of metallic posts cemented with conventional cements. New materials and techniques have been introduced for the restoration of pulpless teeth, and there are additional clinical studies in the literature, not only on traditional materials and methods but also on the more novel materials. This presentation will critically review the latest available evidence on restoring pulpless teeth and suggest practical guidelines for the clinician.

#### **Curriculum Vitae:**

Dr. Morgano received his DMD degree from Tufts University School of Dental Medicine. He completed a general practice residency program at Philadelphia General Hospital, and received his specialty certificate in prosthodontics from the Hines Veterans Affairs Medical Center. Dr. Morgano is a Diplomate of the American Board of Prosthodontics. Dr. Morgano is Professor of Restorative Sciences and Biomaterials and Director of the Division of Postdoctoral Prosthodontics at Boston University Goldman School of Dental Medicine, the largest postdoctoral prosthodontic program in the US. Dr. Morgano has lectured throughout the US, and internationally in 14 different countries. He has published over 60 articles in the refereed dental literature, and has authored 12 textbook chapters. Please join in the excellence of fixed prosthodontics... the 2013 scientific session of the American Academy of Fixed Prosthodontics.

> PRESIDENT CARL F. DRISCOLL FEBRUARY 22 AND 23, 2013

"Planning and Achieving Excellence in Patient Care"

Dr. Thomas J. Balshi Implant Prosthodontics: Evolution of Protocols

Dr. Andrew R. Chapokas Surgical versus Prosthetic Tissue Reconstruction in Implant Dentistry

Dr. John D. B. Featherstone Caries Management by Risk Assessment for the Prosthodontist

Dr. Charles J. Goodacre The Effective Development and Use of Digital and 3D Education Resources in Dentistry: Benefits, Formats, and Application

Dr. Kenneth A. Malament Comprehensive Care for Patients Requiring Complex Prosthodontic Reconstruction

Dr. Servando Ramos and Dr. Fred Bisch What is the Reality of Esthetic and Predictable Implant Prosthodontics?

Dr. Dennis Rohner Esthetic and Functional Reconstruction of Extended Maxillofacial Defects

Dr. David M. Sarver Dentofacial Esthetics: A New Face on Interdisciplinary Dentistry

Dr. Dennis P. Tarnow Immediate vs. Delayed Socket management -What We Know, What We Think We Know and What We Don't Know.

> Dr. Thomas D. Taylor Occlusion and Dental Implants Revisited

Dr. Van P. Thompson Ceramic Materials - What's the Truth?

Dr. Arnold S. Weisgold Achieving Esthetic Success Around Teeth and Dental Implants As Well As Predicting Future Success

> Dr. Jonathan P. Wiens Occlusal Stability

Reserve Speaker – Dr. Avinash S. Bidra Classifying Patients for Fixed Implant-Supported Prostheses in the Edentulous Maxilla

# NOTES


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