THE AMERICAN ACADEMY
OF FIXED
PROSTHODONTICS

FORTY-NINTH ANNUAL
SCIENTIFIC SESSION

FRIDAY, FEBRUARY 25, 2000
SATURDAY, FEBRUARY 26, 2000

CHICAGO MARRIOTT HOTEL
DOWNTOWN
CHICAGO, ILLINOIS
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## PROJECTED TENTATIVE MEETING DATES

- **2000** = February 25-26
- **2001** = February 23-24
- **2002** = February 22-23
- **2003** = February 28 - March 1
- **2004** = February 20-21
- **2005** = February 25-26
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 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.

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
THE ORIGIN AND HERITAGE OF
THE AMERICAN ACADEMY OF FIXED
PROSTHODONTICS

The American Academy of Crown and Bridge Prosthodontics has been, and under its new name, The American Academy of Fixed Prosthodontics, approved in February 1991, 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 achieve, 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 had its origin in 1950 in Chicago, Illinois. The three men who deserve credit for the concept and preliminary planning for the Academy were: 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: Doctors 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 was at 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 565 active, honorary, and life members in 20 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.

PAST PRESIDENTS

* 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 N. 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. Mingleдор .................................. 1985
* Herbert Ptack ............................................ 1986
* Ralph A. Yuodelis ..................................... 1987
* William D. Culpepper ................................ 1988
* Ronald G. Granger ..................................... 1989
* Maurice H. Martel ..................................... 1990
* Ronald D. Woody ....................................... 1991
* Albert J. Kazis .......................................... 1992
* William L. Nequette .................................. 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

* Deceased

Authored by:
Jesse T. Bullard
A sincere sense of pride, gratitude, and anticipation allows me to welcome both members and guests to this the Forty-Ninth Annual Meeting of The American Academy of Fixed Prosthodontics. This year's meeting, the first in our Academy history in the new millennium, promises to provide a continuation of excellence in its scientific program where program chair Dr. Charles Goodacre has gathered national and international speaker-clinicians of renown under a program theme: THE FOUNDATION FOR A CENTURY OF PROGRESS. The topical areas of presentations have been chosen to enrich the knowledge and understanding for those of us who have a dedication to the field of fixed prosthodontics integral to patient care.

In the attempt to increase a greater opportunity for active participation at this year's meeting, the table clinic session has been expanded in its number of presentations as well as an extended timeframe. This activity, organized by Dr. David Kaiser, is once again scheduled in conjunction with the cocktail reception and designed to not only be an interactive learning opportunity but also provide ample time for camaraderie and fellowship amongst members and guests.

The Academy Luncheon carries on the tradition of taking pause to honor the sponsored Tylman Research Award winners selected in competitive submissions. As well it provides time for formally receiving those elected to membership at this year's meeting. This year there is also the special opportunity to give honor and recognition to Dr. Lloyd Miller as recipient of the George H. Moulton Award for his significant impact and contribution to the art and science of fixed prosthodontics. Please take pleasure and pride in sharing the accomplishments of our colleagues.

This year serving as your President has been a pinnacle of my professional life. The fellow officers and directors have shown great resolve in preparing for the future of The American Academy of Fixed Prosthodontics. The privilege of being permitted to be a participant in the process is a treasure I sincerely revere. Knowing that the future is entrusted to able and committed leaders brings tremendous optimism for the 21st Century.

Thank you for participating in this, the Forty-Ninth Meeting of the Academy.
STANDING COMMITTEES 1999-2000

CREDENTIALS COMMITTEE
Carl Andres, Chairman '00
Nancy Chaffee '00, Secretary
Roger Harper '01
Stephen Rosenstiel '01
Marshall Hoffer '02
Marilyn Aden '02
Robert Wright '02

TYLMAN RESEARCH COMMITTEE
Kent Knoernschild, Chairman '04
David Kaiser '01
George Kay '01
Donald Gratton '02
Jack Lipkin '03
Duane Douglas '04

NOMINATING COMMITTEE
Denny Smith, Chairman '02
Richard Wilson '01
Gerald Ziebert '00

HISTORICAL COMMITTEE
Peter Neff, Chairman '02
Victor Mackoul '00

BYLAWS COMMITTEE
Martin Land, Chairman '01
Ronald Woody '01
Gerald Santulli '02
Dean Morton '03
Trudy Burke '04

BUDGET AND FINANCE COMMITTEE
David Donatelli, Chairman
Richard Cavanaugh, Ex Officio
Stephen Campbell, Ex Officio
Don Garver, Ex Officio
Daniel Conry '00
John Harrison '01

PUBLICITY & COMMUNICATIONS COMMITTEE
Michael Myers,
Chairman & NL Editor '03
John Agar '01 - Photographer
Dennis Weir '01
Jeffrey Hudgins '01

ETHICS COMMITTEE
Richard Cavanaugh, Chair '00
James Harrison '01
John Goodman '02

RESEARCH IN FIXED PROSTHODONTICS COMMITTEE
Committee Co-Chairmen:
(A) Steven Morgano '00
(B) Steven Aquilino '01

Committee A:
Steven Morgano, Chairman '00
Susan Brackett '00
Bill Malone, Ex Officio

Committee B:
Steven Aquilino '01
Peter Lund '01
Nancy Chaffee '01
Bill Malone, Ex Officio

AD HOC COMMITTEES 1999-2000

AD HOC FORUM MONITORING COMMITTEE
Richard Hesby, Chairman '03
Nancy Chaffee '03
John Harrison '03

AD HOC COMMITTEE FOR LABORATORY RELATIONS
Richard Wilson, Chairman
Richard Hesby
John VanDercreek

AD HOC COMMITTEE FOR HOME PAGE UPDATE
Martin Land, Chairman
William Nagy
Peter Lund
STANDING PRESIDENTIAL APPOINTMENTS 1999-2000

PARLIAMENTARIAN
Martin Land, Chairman
William Finagin

SECRETARY FOR GUESTS
Don Garver

AMERICAN COLLEGE OF PROSTHODONTISTS
PROSTHODONTIC REPRESENTATIVES
Richard Hesby, Chairman ’01
Stephen Campbell ’00

MEETING SITE DIRECTOR
Don Garver

TABLE CLINIC PROGRAM 2000
David Kaiser, Chairman
Kevin Kopp ’00
Carl Driscoll ’00
Stephen Rosenstiel ’00

PAST TYLMAN AWARD WINNERS *
(DATE IS YEAR AWARDED - AWARD WON PREVIOUS YEAR)

1979: Dr. James N. Ciesco
1980: Not awarded
1981: Dr. Timothy O. Hart
1982: Not awarded
1983: Dr. David Alan Chance
1984: Dr. Jeffrey L. Hudgins
1985: Dr. George W. Kay
1986: Dr. Anthony J. G. Dickinson
1987: Dr. Izchak Bartzilay
1988: Dr. Susan E. Brackett
1989: Not awarded
1990: Dr. Shane N. White
1991: not awarded
1992: not awarded
1993: Dr. Louis Menegotto
1994: Dr. Syed Faheem Rasool
1995: Dr. Fonda G. Robinson
1996: Dr. Paula K. Yliheikkila
1997: Dr. Kevin H. O’Boyle
1998: Dr. David G. Gratton
1999: Dr. Douglas E. Ford
2000: Dr. Reza Heshmati

* THE ACADEMY WOULD LIKE TO EXTEND ITS SINCEREST THANKS TO THE FOLLOWING CORPORATE SPONSORS FOR THE TYLMAN RESEARCH GRANT PROGRAM:
Nobel Biocare
Paragon Implant Co.
Ultradent Products, Inc.
GC America
Editorial Council of the Journal of Prosthetic Dentistry
Whip Mix Corporation

OFFICERS

President ........................................... Davis A. Garlapo
President-Elect .................................... Stephen D. Campbell
Immediate Past President ......................... Denny M. Smith
Vice-President ...................................... Richard R. Cavanaugh
Secretary .......................................... Robert S. Staffanou
Treasurer ......................................... Don G. Garver

BOARD OF DIRECTORS

Patricia S. Moulton .................................. 2000
Gary D. Toogood .................................... 2000
Wayne V. Campagni ................................ 2001
Peter S. Lund ....................................... 2001
William W. Nagy ................................... 2001
David A. Garber .................................... 2002
H. Philip Pierpont .................................. 2002

STANDING COMMITTEE CHAIRMEN

Credentials Committee ............................... Carl Andres ’00
Program Committee ................................ Charles Goodacre ’00
Budget & Finance Committee ........................ David Donatelli ’00
Tylman Research Committee ....................... Kent Knoernschild ’04
Local Arrangements Committee ..................... Kevin Kop ’00
Future Planning & Policy Committee ............. William Nagy ’01
Exhibits Committee .................................. Jack Lipkin ’03
Nominating Committee ............................. Denny Smith ’02
Editor .................................................. William Malone
Bylaws Committee .................................... Martin Land ’01
George H. Moulton Award Committee ............. Maurice Martel ’00
Historical Committee ................................ Peter Neff ’02
Publicity & Communications Committee .......... Michael Myers ’03
Newsletter Editor .................................... Michael Myers ’03
Ethics Committee .................................... Richard Cavanaugh ’00
Research in Fixed Prosthodontics

Committee A ......................................... Steven Morgano ’00
Committee B ......................................... Steven Aquilino ’01

AD HOC COMMITTEE CHAIRMEN

Ad Hoc Forum Monitoring Committee
Richard Hesby, Chairman

Ad Hoc Committee for Laboratory Relations
Richard Wilson, Chairman

Ad Hoc Committee for Speakers Bureau
Pat Moulton, Chairman

Ad Hoc Committee for Home Page Update
Martin Land, Chairman
ANNUAL MEMBERSHIP DINNER AND BUSINESS MEETING
THURSDAY, FEBRUARY 24, 2000

5:30PM-7:00PM Early Registration for Members Only
5th Floor Foyer

6:00PM-7:00PM Early Registration for Guests
7th Floor Foyer

6:00PM-7:00PM Cocktail Reception
5th Floor Foyer
Members Only Please!

7:00PM Annual Membership Dinner
5th Floor Foyer, Salons A,B,C,D
Members Only Please!

8:00PM Annual Business Meeting
5th Floor Foyer, Salons A,B,C,D
President's Message
Committee Reports
Old Business
New Business
Election of Officers
Town Hall Meeting
Members Only Please!

9:00PM Adjourn
### EXHIBIT DIRECTORY

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### TABLE CLINIC PROGRAM

**FIFTH FLOOR BALLROOM**

**4:30-6:15PM FEBRUARY 25, 2000**

**TABLE CLINIC CHAIRMAN - DR. DAVID A. KAISER**

1. **“An Evaluation of Implant Abutment Screws”**
   - Dr. James Lutonsky, San Antonio, TX
2. **“Precision Fit of the Procera All Ceramic Crown”**
   - Dr. S. K. El-Fersad, Ann Arbor, MI
3. **“Customized Methods to Achieve Gingival Esthetics in a Single Tooth Restoration”**
   - Anthony Lavaca, Bronx, NY
4. **“Immediate Loading of Ossseointegrated Implants in Partially Edentulous Situations”**
   - Dr. Hsiu-chin Tsai, Rowland Heights, CA
5. **“Management of Unfavorable Implant Position: An Integrated Surgical and Prosthetic Approach”**
   - Dr. Kitchai Rungcharassaeng, Redlands, CA
6. **“A Multifunctional Provisional Fixed Partial Denture for Implant Patients”**
   - Dr. Frank Higginbottom, Dallas, TX
7. **“Esthetic Dentistry: A Clinical Color Approach”**
   - Dr. Stephen D. Metz, Las Vegas, NV
8. **“Anterior Fixed Restorations Using the Electroforming Technique”**
   - Dr. Stavros Pelekanos, Athens, Greece
9. **“Fabrication of Three Dimensional Templates for Placement of Root Form Dental Implants”**
   - Dr. Frank Higginbottom, Dallas, TX
10. **“Electronic Torque Driver Accuracy After Five Years in Clinical Service”**
    - Dr. Ricardo Mitrani, Seattle, WA
11. **“Planning for Future Wear During Occlusal Reconstruction”**
    - Dr. Curtis Werking, San Antonio, TX
12. **“Marginal Opening and Passivity of Screw and Cement-Retained Implant Fixed Partial Dentures”**
    - Dr. Diane Yoshinoba, Los Angeles, Ca
13. **“Fixed Provisional Restorations on Immediately Loaded Implants”**
    - Dr. Richard Sullivan, Yorba Linda, CA
14. **“Implant Loading at Six Weeks”**
    - Dr. Paul Quinlan, San Antonio, TX
15. **“The Use of Custom Acrylic Templates for Mucogingival Surgery Around Dental Implants”**
    - Dr. Periklis Proussaefs, Loma Linda, CA
16. **“The Effect of Surface Treatment on Fatigue Life of Post-Soldered Joints”**
    - Dr. Randi Press, Seattle, WA
17. **“A New Taping Method for Aluminiun All Ceramic Core Fabrication”**
    - Dr. Jung-Suk Han, Seoul, South Korea
18. **“Compatibility with the Procera Technology”**
    - Dr. Debora Armelini, Ann Arbor, MI
19. **“Rapid Occlusal Analysis Using Mounted Pindexed Diagnostic Casts”**
    - Dr. Thomas Girvan, San Antonio, TX
20. **“Comparison of Dental Implant Impression Methods”**
    - Dr. Wayne Gardner, San Antonio, TX
21. **“The Influence of Dental Surface Finishing on Porcelain Porosity at the Metal-Ceramic Interface”**
    - Dr. Theresa Hofstede, Rochester, NYH
    - Second Place Tylman Award Winner
22. **“The Effect of Dentin Desensitizers on the Retention of Full Gold Crowns Cemented with a Variety of Luting/Bonding Agents”**
    - Dr. Nanifya Yim, Las Vegas, NV
    - Third Place Tylman Winner
THE AMERICAN ACADEMY OF FIXED PROSTHODONTICS

FORTY-NINTH ANNUAL SCIENTIFIC SESSION
CHICAGO MARRIOTT HOTEL DOWNTOWN
FRIDAY, 25 FEBRUARY 2000

7:00AM-8:15AM  Registration - Members and Guests
                 7th Floor Foyer
                 Continental Breakfast in Exhibit Area
                 Exhibits Open, 7th Floor Salon III

PROGRAM MODERATOR - FRIDAY AM
DR. CHARLES J. GOODACRE

8:15AM                Welcome-Introductions
                      President Davis A. Garlapo
                      Program Chairman Charles J. Goodacre

8:30AM-10:00AM  "The Symbiosis of Esthetics and Occlusion"
                 - Dr. Lloyd L. Miller

10:00AM-10:30AM  Break  "REFRESHMENTS IN EXHIBIT HALL"

10:30AM-11:45AM  "Clinical Applications of Mineral Trioxide Aggregate for Practicing Prosthodontists"
                 - Dr. Mahmoud Torabinejad

11:45AM-12:00PM  "Delayed Linear Expansion of Improved Dental Stone"
                 - Dr. Reza Heshmati
                 Tyman 1st Place Winner

12:00PM-1:30PM      Annual Academy Luncheon
                      All Members and Guests Invited
                      5th Floor Ballroom

PROGRAM MODERATOR - FRIDAY PM
KENT L. KNOERNSCHILD

1:30PM-2:45PM  "A Direct Approach to Resin Esthetics"
               - Dr. Gerald E. Denehy

2:45PM-3:15PM  Break  "REFRESHMENTS IN EXHIBIT HALL"

3:15PM-4:30PM  "An Esthetic and Scientific Comparison of the Methods Commonly Used to Replace Missing Anterior Teeth"
                - Dr. Joseph Kan

4:45PM-6:15PM  Table Clinic Program
                5th Floor Ballroom
                - Dr. David A. Kaiser, Chairman

5:45PM-7:00PM      Annual Cocktail Party
                      All Members and Guests Invited
                      5th Floor Ballroom - No Host Bar

*Note: Exhibits will be open continuously from 7:00AM to 5:00PM for your convenience.

THE AMERICAN ACADEMY OF FIXED PROSTHODONTICS

FORTY-NINTH ANNUAL SCIENTIFIC SESSION
CHICAGO MARRIOTT HOTEL DOWNTOWN
SATURDAY, 26 FEBRUARY 2000

7:00AM-8:15AM  Registration - Members and Guests
                 7th Floor Foyer
                 Continental Breakfast in Exhibit Area
                 Exhibits Open, 7th Floor Salon III

PROGRAM MODERATOR - SATURDAY AM
DR. JONATHAN L. FERENCZ

8:30AM-10:00AM  "Occlusion and Dental Implants - Primarily for the Partially Edentulous Patient"
                - Dr. Michael D. Wise

10:00AM-10:30AM  Break  "REFRESHMENTS IN EXHIBIT HALL"

10:30AM-11:45AM  "Occlusion: What It Is and What It Isn't"
                 - Dr. Charles McNeill, III

12:00PM-1:30PM      Lunch on your own
                      No Host Luncheon Buffet in Exhibit Hall
                      Exhibits Open until 1:30PM
                      Past Presidents/New Member Luncheon
                      (Officers, Directors, Past Presidents, New Members)
                      Lincolnshire Room I & II, 6th Floor

PROGRAM MODERATOR - SATURDAY PM
DR. KENNETH A. MALAMENT

1:30PM-2:30PM      "Bone Regeneration: Where We've Been and Where We're Going"
                 - Dr. Robert Genco

2:30PM-3:30PM      "Creating A Harmonious Gingival Appearance: The Restorative Connection"
                 - Dr. Robert Winter

3:30PM                    Closing Remarks
                    - Dr. Davis A. Garlapo, President, AAFP
                    - Dr. Charles Goodacre, Program Chairman

*Note: Exhibits will be open continuously from 7:00AM to 1:30PM for your convenience.
Friday, February 25, 2000
8:30AM -10:00AM

Lloyd L. Miller, DMD

"SYMBIOSIS OF OCCLUSION AND ESTHETICS"

Synopsis: There is an obvious role of anterior teeth in projecting age, vitality, sexual attractiveness, and self esteem. Patients are less aware that anterior teeth function to protect posterior teeth and enhance their longevity for a lifetime of use. A prudent dentist requires occlusal screening of patients planning esthetic changes to anterior teeth. The unique contribution of anterior guidance in force management, posterior disclusion, muscle balance and stability of teeth and jaw joints is described in the symbiosis of occlusion and esthetics.

Curriculum Vitae: Dr. Lloyd Miller is in private practice in Weston, MA, and teaches in the postgraduate program at Tufts University School of Dental Medicine where the postgraduate clinic was recently named in his honor. He belongs to many professional organizations and is a Past President of the American Academy of Fixed Prosthodontics. He is the recipient of many honors and awards, including the George H. Moulton Award presented by the American Academy of Fixed Prosthodontics for outstanding achievement in the art and science of fixed prosthodontics. He is the owner of Gnathos Dental Laboratory, Inc., which is a private in-house dental laboratory.

Friday, February 25, 2000
10:30AM -11:45AM

Mahmoud Torabinejad, DMD, MSD, PhD

"CLINICAL APPLICATIONS OF MINERAL TRIOXIDE AGGREGATE FOR PRACTICING PROSTHODONTISTS"

Synopsis: Because of inadequacies in the sealing ability and biocompatibility of currently used materials to repair pulp exposure or root perforation, a new material called Mineral Trioxide Aggregate (MTA) has been recently developed. Initially intended for use as the "ideal" root end filling material, its clinical use has expanded exponentially. MTA is now used routinely for pulp capping, an apical plug in teeth with open apexes, as well as for repair of iatrogenic and resorption perforations when they are encountered. The clinician can now, with confidence, rely on a biologically compatible repair material when called upon to treat these situations. This presentation will describe how MTA was developed, why MTA works, when to use MTA, and how to use MTA.

Curriculum Vitae: Dr. Torabinejad graduated from dental school in 1971, studied oral pathology from 1972 to 1974 and received his certificate at the University of Illinois in Chicago. He earned a certificate in Endodontics and a Master of Science degree in Dentistry in 1976 at the University of Washington in Seattle and completed his PhD in 1995 at the University of London. Dr. Torabinejad is a Professor of Endodontics and Director of Graduate Endodontics at Loma Linda University School of Dentistry in Loma Linda, California and practices in Upland, California.
"DELAYED LINEAR EXPANSION OF IMPROVED DENTAL STONE"

Synopsis: Improved dental stones are recommended when accuracy and strength are required in the fabrication of a master cast. The unique requirements of implant prosthodontics have also placed a greater requirement on master cast accuracy and stability as well as the clinical outcome. Linear setting expansion of dental stone is affected by many variables, and greatly affects the accuracy of the casts or die. This study measured and compared the setting expansion of five commonly used ADA type IV and V stones (Die-Keen, Jade Stone, Vel-Mix, Resin Rock, Fuji Rock, and Silky Rock) at eight time intervals. The results indicate that all stones showed a higher mean linear expansion value at 120 hours than at 2 hours. Die-Keen exhibited the highest total mean setting expansion (0.35%) and Silky Rock exhibited the lowest mean linear expansion value (0.14%). Expansion was essentially complete at 96 hours for all stones with the exception of Silky Rock and Die-Keen which achieved stability at 72 hours. Mean expansion values at two hours were comparable to the manufacturer's stated values. However, continued linear expansion after 2 hours may compound the error inherent in the multi-step fabrication procedure of cast restorations.

Curriculum Vitae: Dr. Reza Heshmati graduated in 1992 from Karolinska Institute, School of Dentistry, Stockholm, Sweden. He formerly worked at the Swedish Dental Health Institute as a general practitioner. Dr. Heshmati received a Master of Public Health from the University of Southern Mississippi in 1995 and completed a three year Advanced Prosthodontic Training Program at Marquette University School of Dentistry in 1999 with a Master of Science degree. Dr. Heshmati is currently a Maxillofacial Prosthetic Fellow at the University of Chicago Medical Center.
"A DIRECT APPROACH TO RESIN ESTHETICS"

Synopsis: Direct resin placement is the foundation upon which a dentist's esthetic skills are built. This lecture will discuss principles of material selection, techniques of shade matching and blending, simplified procedures of material placement, and elements of esthetics that will aid in building this foundation.

Curriculum Vitae: Dr. Denehy is Professor and Graduate Program Director in the Department of Operative Dentistry at the University of Iowa College of Dentistry. He has authored many articles on resins and bonding, serves as a consultant to dental manufacturers and has lectured widely both nationally and internationally. He conducts a part-time practice devoted primarily to esthetic dentistry.

"AN ESTHETIC AND SCIENTIFIC COMPARISON OF THE METHODS COMMONLY USED TO REPLACE MISSING ANTERIOR TEETH"

Synopsis: Creating natural looking anterior restorations with harmonious gingival contour is a fusion of science and art. Understanding the biologic and physiologic limitations of the soft and hard tissues enhances the predictability by which treatment plans are developed for challenging esthetic situations. This presentation will identify the hard and soft tissue limitations associated with the methods commonly used to replace missing anterior teeth (implants, resin-bonded, prostheses, conventional fixed prostheses and cantilevered prostheses).

Curriculum Vitae: Dr. Joseph Kan received certificates from both the Advanced Education Programs in Prosthodontics and Implant Dentistry from Loma Linda University School of Dentistry, Loma Linda, California. He is currently an Assistant Professor in the Department of Restorative Dentistry at Loma Linda University School of Dentistry. He also maintains a private practice in Loma Linda limited to Prosthodontics and Implant Dentistry. Dr. Kan is a member of the Academy of Osseointegration and the American College of Prosthodontics.
"OCCLUSION AND DENTAL IMPLANTS - PRIMARILY FOR THE PARTIALLY EDENTULOUS PATIENT"

Synopsis: This presentation will be divided into two parts. The first part will review the literature pertaining to occlusion and implants and in particular the difference between the response of teeth and implants. The second part of the presentation will demonstrate the speakers approach to the clinical management of the occlusion, primarily for the partially edentulous patient based upon the foregoing. Some complications encountered when treating patients with problems of psychogenic etiology will be presented.

Curriculum Vitae: Dr. Michael Wise qualified from the London Hospital Dental School (University of London) in 1968 - BDS (Hons), LDS, RCS (Eng). He was awarded a Harkness Fellowship for two years study in the USA at Indiana University between 1970 and 1972 where he obtained his MScD in Fixed and Removable Prosthodontics. He obtained his Fellowship in Dental Surgery from the Royal College of Surgeons of England in 1972. He maintains a private restorative practice in London mainly treating patients who have had failures in extensively restored dentitions. He taught part-time at the Post Graduate Institute in London until 1984 and is now an Honorary Research Fellow. He has conducted courses in his practice since 1979. He has lectured widely, both nationally and internationally, and is the author of many publications including a 10 part series on Occlusion and Restorative Dentistry published in the British Dental Journal in 1982 and subsequently produced as a BJD handbook. He has written a text "Failure in the Restored Dentition: Management and Treatment", published in English, Italian, and German versions by Quintessence Publishing Company in February 1995. He is recognized as a specialist in restorative dentistry by the General Dental Council.

"OCCLUSION: WHAT IT IS AND WHAT IT ISN'T"

Synopsis: There have been numerous studies attempting to establish a link or lack thereof between occlusion and various forms of orofacial pain. This presentation will identify the appropriate role for occlusor and functional considerations in the contemporary practice of fixed prosthodontics.

Curriculum Vitae: Dr. Charles McNeill is a Professor of Clinica Dentistry and the Director of the Center for Orofacial Pain at the University of California at San Francisco. He is a Diplomate of the American Board of Orofacial Pain, Fellow of the American College of Dentists, and a Fellow of the International College of Dentists. He is a member and former President of both the American Academy of Restorative Dentistry and American Academy of Orofacial Pain and is a past-editor of the Journal of Orofacial Pain. He has authored many articles, abstracts and book chapters, edited four books and lectured extensively on the subjects of TMD, orofacial pain and occlusion. Dr. McNeill formerly maintained a private practice in Walnut Creek, CA, for 27 years and presently maintains a private orofacial pain practice at UCSF.
"BONE REGENERATION: WHERE WE'VE BEEN AND WHERE WE'RE GOING"

Synopsis: For some time, adjunctive periodontal therapy has involved physically grafting hard and soft tissues. Recently, the focus has shifted to enhancing the host's ability to regenerate tissue. This presentation will discuss available scientific data and clinical applications related to bone regeneration as currently understood and applied.

Curriculum Vitae: Dr. Genco received his Dental Degree in 1963 and trained as a periodontist and immunologist receiving his Certification in Periodontics and PhD in 1967 from the University of Pennsylvania. He and his coworkers have worked with platelet-derived growth factor and bone morphogenetic proteins to regenerate alveolar bone around implants and to restore periodontal tissues. Dr. Genco is currently a Distinguished University Professor and Chair of the Department of Oral Biology. He has been awarded the American Dental Association's Gold Medal for Excellence in Research and is member of the Institute of Medicine of the National Academy of Sciences. He is currently the Editor-in-Chief of the Journal of Periodontology and the Annals of Periodontology. He also edited several textbooks including textbooks on Tissue Engineering, Applications in Maxillofacial Surgery and Periodontics, Contemporary Periodontics, and most recently a textbook in Periodontal Medicine.

"CREATING A HARMONIOUS GINGIVAL APPEARANCE: THE RESTORATIVE CONNECTION"

Synopsis: The physiological contour and arrangement of the natural teeth will be analyzed as it relates to the gingival architecture. The intimate relationship between the appearance of the gingival tissue and crown form will be discussed. Frequently, restorations are created that do not adequately support the gingival tissue resulting in dark spaces in the gingival embrasure. Guidelines will be given to predictably assure that the optimal gingival esthetics will be achieved. After completion of this lecture you will know:

* How to diagnose and develop treatment plans for a variety of clinical scenarios.
* When to use each treatment option to achieve the most predictable and stable outcome.
* How the bony architecture influences the gingival form.
* How the physiological contour of a natural tooth supports the gingival tissue.
* How to develop the appropriate restorative form for the particular clinical scenario.
* The guidelines for the dental technician to follow during the fabrication of the restoration.

Curriculum Vitae: Dr. Winter graduated from Marquette University School of Dentistry, and in 1983 completed his Prosthodontic Specialty Residency in Milwaukee, Wisconsin. He maintains a private practice limited to Prosthodontics, and is a member of the graduate prosthodontics faculty at the University of Washington. Dr. Winter is co-founder of the Newport Beach Dental Forum, an educational facility in Newport Beach, California.