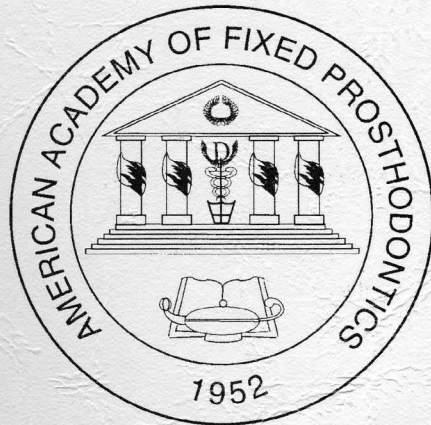


**THE AMERICAN ACADEMY
OF FIXED
PROSTHODONTICS**



FORTY-FIFTH ANNUAL MEETING

FEBRUARY 23, 24, 1996

**CHICAGO MARRIOTT HOTEL
CHICAGO, ILLINOIS**

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ected Tentative Meeting Dates

1996 = 23-24 February
 1997 = 21-22 February
 1998 = 20-21 February
 1999 = 19-20 February
 2000 = 25-26 February

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THE ORIGIN AND HERITAGE OF THE AMERICAN ACADEMY OF FIXED PROSTHODONTICS

The American Academy of Crown and Bridge 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 temporary chairman and Dr. Moulton as temporary secretary.

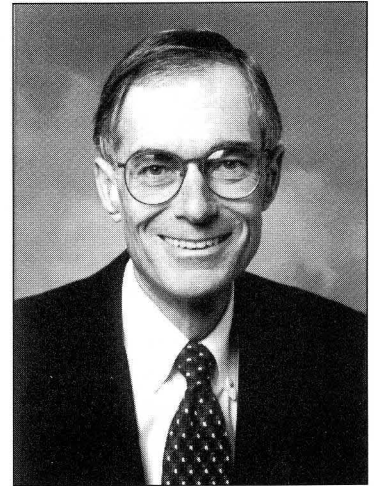
The next meeting was at French Lick, Indiana, on March 19, 1951, where the tentative Constitution and By-Laws were presented for final approval. Charter Members were initiated into the Academy on February 2, 1952, in Chicago, making this the first annual meeting of the Academy of Crown and Bridge Prosthodontics. We have continued to grow and expand our national and international membership to our present total of 514 active, honorary, and life members in 22 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.

Jesse T. Bullard

THE PRESIDENT'S MESSAGE

HARVEY L. COLMAN, DDS
PRESIDENT, 1995-1996



On behalf of the Board of Directors and Officers of the Academy, it's my special privilege to welcome you to the forty-fifth annual meeting of the American Academy of Fixed Prosthodontics. As a member or guest, practitioner or graduate student, we hope you will benefit from the experience and knowledge to be gained over the next two days. To each of our essayists, thanks to each of you for enriching our program. We appreciate your willingness to share in the demanding interchange of ideas built into this year's meeting format.

Any successful leader knows that the power of appointment combined with the willingness of people to work for their organization is the key to a successful term of office. This is especially true when choosing a person to organize and conduct a scientific session such as the one in which you are about to become engaged.

For many years, I have respected Dr. Carl Rieder, not only for his abilities as a master clinician, but also because he epitomizes the student who never stops learning. Those of you who know Carl know also that he is more than talk and his demand for perfection is combined with a willingness to share his knowledge with others. In the truest sense of the work, Carl has "spurred" us to become better dentists. Thanks, Carl, I'm indebted to you one more time!

During the next two days, come early and stay late. The commercial exhibitors are once again and ready, willing, and able to provide you with information about the latest products and procedures of importance in the state-of-the-art fixed prosthodontic treatment. Don't hesitate to move between the essays and the exhibits when they are available to you. They're here for your benefit and by choosing your own time to spend in the exhibit area, you will have more "one-on-one" time with the exhibitors of your choice.

If the definition of a successful meeting is one in which there is more going on than you can assimilate, we will have a very successful two days. Thanks for being here.

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ert P. Dressel	1954
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ald G. Granger	1989
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e L. Timberlake	1994
se T. Bullard	1995
vey L. Colman	1996

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TABLE CLINICS CHAIRMAN

David Eggleston

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JOURNAL OF PROSTHETIC
DENTISTRY**

Herb Shillingburg

**ANNUAL MEMBERSHIP
DINNER AND BUSINESS MEETING
THURSDAY, FEBRUARY 22, 1996**

6:00PM

7:00PM

6:00PM

7:00PM

7:00PM

7:45PM

Early Registration

5th Floor Foyer

(MEMBERS ONLY, PLEASE!!!)

Cocktail Reception

5th Floor Foyer

(MEMBERS ONLY PLEASE!!!)

Annual Membership Dinner

5th Floor Foyer, SALONS A,B,C,D

(MEMBERS ONLY PLEASE)

Annual Business Meeting

5th Floor Foyer, SALONS A,B,C,D

President's Message

Committee Reports

Old Business

New Business

Election of Officers

(MEMBERS ONLY PLEASE!!!)

PROGRAM COMMITTEE



Dr. Carl Rieder
1996 Program Chairman



Dr. William Nagy
1997 Program Chairman



Dr. E. Pat Allen
Ex Officio



Dr. Richard Roblee
Ex Officio

EXHIBIT DIRECTORY DR. RONALD P. STIFTER CHAIRMAN, EXHIBITS COMMITTEE

Booth Number	Company Name
1.	Nobelpharma USA, Inc.
2.	Lord's Dental Studio, Inc.
3.	Condylator Service
4.	Implant Innovations, Inc.
5.	
6.	
7.	
8.	
9.	
10.	Van R/Clive/Craig
11.	Dentsply Implant
12.	Hermanson Dental Service, Inc.
13.	Ultradent Products, Inc.
14.- 15.	Quintessence Publishing Co., Inc.
16.	Brasseler USA
17.	Whip Mix Corporation
18.	Calcitek, Inc.
19.	Orasoptic Research, Inc.
20.	Teledyne Water Pik
21.	Straumann, USA
22.	Vident
23.	Jensen Industries
24.	Lifecore Biomedical
25.	
26.	Mosby Williams
27.	J. F. Jelenko & Co.
28.	Popp Dental Laboratory
29.	
30.	Prevention Lab
31.	Dentsply/Ceramco
32.	Panadent Corporation
33.	Steri-Oss
34.	Dental Arts Laboratories, Inc.

**TABLE CLINIC PROGRAM
FIFTH FLOOR BALLROOM
5:00PM, FEBRUARY 23, 1996**

**TABLE CLINIC CHAIRMAN:
DR. DAVID W. EGGLESTON**



1. "An Aid for Selecting All-Ceramic Crown Materials and Communicating the Dental Laboratory"
Dr. Tarek S. AbdelHalim
Chicago, IL
2. "Fabrication of Custom Trays and Baseplates Using a Thermoplastic Material"
Dr. Mohammed Al-Rafee
Milwaukee, WI
3. "A New Approach in Developing Occlusal Surfaces in Removable Appliances"
Dr. Panayiotis Andritsakis
Dr. Charalampos Petridis
Boston, MA
4. "Temporaries & Mock Ups in Porcelain Bonded Restorations"
Dr. David L. Baird
Bellevue, WA
5. "Posterior Partially Edentulous Implant Options"
Dr. George H. Clayton
Washington, DC
6. "IPS Empress - Techniques for Success"
Dr. Federico Diez
Dr. Charles Pechous
Milwaukee, WI
7. "Facebow Transfer and Articulator Settings"
Dr. Carl G. Wirth
Zephyrhills, FL

8. "Start of Dental Technician Student Education on Craniomandibular Biology"
Dr. Yasuo Hatano
Dr. Yoshitsugu Marumo
Chofu, Tokyo, Japan
9. "Ceramic Restorations: A Selection Rationale for Clinical Application"
Dr. Manal Ibrahim
Chicago, IL
10. "New Clinical Concept and Technique for Evaluating and Establishing Occlusal Plane"
Dr. Takeo Iwata
Kogeni City, Tokyo, Japan
11. "A New Implantation Method: Root Analogue Titanium Implants for Immediate Implant Placement - the Re-Implant[®] System"
Dr. Ralf-J. Kohal
Freiburg, Germany
12. "Crown, Onlay, Inlay, Veneer - Fitting a Placement"
Dr. Thomas Lee
Grand Terrace, CA
13. "Restoring Endodontically Treated Teeth - Direct Cast Post and Core Technique"
Dr. Joseph A. Lota
Ridgewood, NJ
14. "Using a Sustain HA Implant with the Screw Block Attachment to Resolve an Implant Case"
Dr. Jorge Ortiz
Saltillo, Coah., Mexico
15. "A Study on the Fracture Strength of All-Ceramic Crowns"
Dr. Seung-Jin Paek
Seoul, Korea
16. "Cast Post and Core - Rationale & Technique"
Dr. David J. Seitlin
Miami, FL
17. "In Vitro Retention Strength of ZrOs-Posts After Insertion With Different Methods."
Dr. Marcus Simon
Freiburg, Germany
18. "Joint Vibration"
Dr. Mark W. Simpson
Charleston, WV
19. "Optimizing Esthetics for IPS Empress All Ceramic Crown"
Dr. George Tzenakis
Milwaukee, WI

**IMPLANT SYMPOSIUM
(ALL SPEAKERS WERE ASKED TO ADDRESS THE
FOLLOWING QUESTIONS)**

1. Should different implant designs and implant surfaces be used for different soft tissue thickness and bone quality? Explain
2. What impression technique (including copings, trays, and materials) do you use? What type of interocclusal records, casts, and articulators do you provide the laboratory?
3. How do you manage a limited implant restoration for a patient whose existing dentition is less than optimum and who also exhibits maxillomandibular relationship discrepancies?
4. What causes retaining screws and attachment screws to loosen? Can they be permanently tightened? Are torque drivers or controllers a necessity? Is there a difference in the effectiveness of the material used to make retaining screws?
5. How do you manage poorly angulated implants that would require off-axis loading by the prosthesis?
6. Mechanically, are segmented abutments indicated over non-segmented abutments? What are the indications for each?
7. Is an implant fail-safe mechanism (e.g., gold attachment screw) or a compliant abutment component (e.g., intramobile element) necessary for an improved prognosis?
8. Are implant-supported provisional restorations needed primarily for patient comfort and esthetic considerations, or do they enhance the prognosis? How do you develop your implant-supported provisional restorations?
9. Can implant and tooth-bone abutments be connected in the same prosthesis? If so, what connecting mechanism do you use?
10. Have you experienced intrusion of natural teeth coupled with an implant-supported restoration? What is your hypothesis for this phenomenon?
11. In the absence of adequate bone, what compensatory procedures do you recommend and what success and/or failures have you experienced?
12. What are the indications of the following retention mechanisms for implant prostheses: screw-retained, definitive cementation, and telescopic design with soft luting material?
13. How do you design and restore a single molar implant?
14. What occlusal design and restorative material is optimum for an implant-supported prosthesis for a partially edentulous patient?
15. What is your experience with wide-diameter implants, flared healing abutments, and wide emergence profile restorations? What are the indications and contraindications for each?
16. What is your experience with implant and component fractures? How can fractures be avoided?
17. What is the single most critical area for advancement in implant dentistry?

**THE AMERICAN ACADEMY OF FIXED PROSTHODONTICS
SYMPOSIUM ON DENTAL IMPLANTS
FRIDAY, FEBRUARY 23, 1996**

8:00AM-8:15AM	Welcome: Dr Harvey L. Colman, President AAFP Introduction: Dr. Carl E. Rieder, Program Chairman
8:15AM-9:00AM	"Clinical Questions in Implant Prosthodontics- Opinion vs. Knowledge" Dr. Charles E. English
9:00AM-9:10AM	Discussion Dr. Axel Kirsch
9:10AM-9:30AM	Panel Discussion Moderator: Dr. Carl E. Rieder
9:30AM-10:15AM	"Adequate Use of Dental Implants: An Increasing Restorative Challenge" Dr. Urs C. Belser
10:15AM-10:25AM	Discussion Dr. Daniel Y. Sullivan
10:25AM-10:45AM	Panel Discussion Moderator: Dr. Carl E. Rieder
10:45AM-11:30AM	"The Branemark Implant System" Dr. Stephen M. Parel
11:30AM-11:40AM	Discussion Dr. Urs C. Belser
11:40AM-12:00PM	Panel Discussion Moderator: Dr. Carl E. Rieder
12:00PM-1:30PM	Academy Luncheon All Members and Guests Fifth Floor Ballroom
1:30PM-2:15PM	"IMZ System: So Far and Future" Dr. Axel Kirsch
2:15PM-2:25PM	Discussion Dr. Stephen M. Parel
2:25PM-2:45PM	Panel Discussion Moderator: Dr. Carl E. Rieder
2:45PM-3:30PM	"Implants in Restorative Dentistry" Dr. Daniel Y. Sullivan
3:30PM-3:40PM	Discussion Dr. Charles E. English
3:40PM-4:00PM	Panel Discussion Moderator: Dr. Carl E. Rieder
4:00PM-5:00PM	Panel Discussion - Audience Questions Dr. Charles E. English Dr. Urs C. Belser Dr. Stephen M. Parel Dr. Axel Kirsch Dr. Daniel Y. Sullivan Moderator: Dr. Carl E. Rieder
5:00PM-7:00PM	Annual Cocktail Party for All Members and Guests Table Clinic Program Fifth Floor Ballroom - No Host Bar

**CERAMICS SYMPOSIUM
ALL SPEAKERS WERE ASKED TO ADDRESS
THE FOLLOWING QUESTIONS**

1. How do you select the type of ceramic restoration for each restorative situation?
2. How does optimum tooth preparation vary with different types of ceramic restorations?
3. What tooth foundation restoration material do you prefer as a substitute for missing dentin?
4. What impression technique(including trays and materials) and what type of interocclusal records do you use? What casts, guides, and articulators do you provide for the laboratory?
5. What methods do you use to fabricate provisional restorations?
6. What procedures do you use to correct occlusal disharmony and maintain occlusal integrity?
7. What technique do you use for shade selection, and how do you communicate this effectively?
8. How do you communicate shape, position, contour, and occlusal and incisal relationships to a remote laboratory?
9. What procedures do you use for internal adjustment of ceramic restorations prior to placement.
10. What luting material and techniques do you use for the definitive placement of ceramic restorations?
11. How do you manage a limited ceramic restoration for a patient whose existing dentition is less than optimum and who also exhibits maxillomandibular relationship discrepancies?
12. In your experience with different types of ceramic restorations, what is the relative marginal integrity of each?
13. Which of the new systems for fabricating ceramic restorations have you used and what advantages and disadvantages have you found with each?
14. In your experience, what systems incur most breakage and to what do you attribute this?
15. In many states, it is illegal to send patients to the laboratory for shade selection. Is this a realistic restriction and why?
16. Do you expect that ceramic materials or new types of resin polymers will eventually replace metal-based restorations?
17. What is the single most critical area for advancement in ceramic restorative dentistry?

**THE AMERICAN ACADEMY OF FIXED PROSTHODONTICS
SYMPOSIUM ON DENTAL CERAMICS
SATURDAY, FEBRUARY 24, 1996**

8:00AM-8:15AM
8:15AM-9:00AM

9:00AM-9:10AM

9:10AM-9:30AM

9:30AM-10:15AM

10:15AM-10:25AM

10:25AM-10:45AM

10:45AM-11:30AM

11:30AM-11:40AM

12:00PM-1:15PM

12:00PM-1:00PM

1:15PM-1:30PM

1:30PM-2:15PM

2:15PM-2:25PM

2:25PM-2:45PM

2:45PM-3:30PM

3:30PM-3:40PM

3:40PM-4:00PM

4:00PM-5:00PM

Introduction: Dr. Carl E. Rieder, Program Chairman
"All Ceramic Full Crowns"

Dr. Peter Schärer

Discussion

Dr. Gordon J. Christensen

Panel Discussion

Moderator: Dr. Carl E. Rieder

"CAD/CAM for Ceramic Restorations"

Dr. Jack D. Preston

Discussion

Dr. Jan Pameijer

Panel Discussion

Moderator: Dr. Carl E. Rieder

"Ceramic Partial Coverage Restorations"

Dr. Jan H.N. Pameijer

Discussion

Dr. Gerard J. Chiche

Panel Discussion

Moderator: Dr. Carl E. Rieder

Lunch - On Your Own -

No Host Luncheon Buffet in Exhibit Hall

All Exhibits Open

Past Presidents Luncheon - Hospitality Suite #461
(Past Presidents, Officers, Directors)

**"Preliminary Comparison of Mineralizing
Multilayer Cultures Formed by Primary Fetal
Bovine Mandibular Osteoblasts Grown on
Titanium, Hydroxyapatite and Glass"**

Dr. Paula K. Yliheikkilä

**"Analysis of Current Ceram-Metal
Techniques"**

Dr. Gerard J. Chiche

Discussion

Dr. Peter Schärer

Panel Discussion

Moderator: Dr. Carl E. Rieder

"Tooth Colored Crowns"

Dr. Gordon J. Christensen

Discussion

Dr. Jack D. Preston

Panel Discussion

Moderator: Dr. Carl E. Rieder

Panel Discussion - Audience Questions

Dr. Peter Schärer

Dr. Jack D. Preston

Dr. Jan H. N. Pameijer

Dr. Gerard J. Chiche

Dr. Gordon J. Christensen

Moderator: Dr. Carl E. Rieder

Friday, February 23, 1996

9:30AM - 9:00AM

10:15AM - 10:45AM

DISCUSSION: DR. AXEL KIRSCH
PANEL DISCUSSION: ALL SPEAKERS



DR. CHARLES E. ENGLISH

**"Clinical Questions in Implant Prosthodontics
Opinion vs. Knowledge"**

Synopsis: A candid discussion of clinical concerns in the practice of implant prosthodontics.

Curriculum Vitae: Dr. English is a Diplomate of the American Board of Prosthodontics. A 1971 graduate of Indiana University, his residency was with the Veterans Administration and the University of Texas Dental Branch, Houston, TX. He is presently staff prosthodontist (part-time) with the Veterans Administration in Augusta, GA. In addition, he holds a faculty position with the postgraduate department of prosthodontics with the Medical College of Georgia and maintains a limited private practice in Augusta, GA. He serves on numerous journal boards, has published extensively, and has lectured worldwide. He has clinical experience with over 12 different endosseous implant systems.

Friday, February 23, 1996

9:30AM-10:15AM

10:15AM - 10:45AM

DISCUSSION: DR. DANIEL Y. SULLIVAN
PANEL DISCUSSION: ALL SPEAKERS



DR. URS C. BELSER

**"Adequate Use of Dental Implants:
An Interesting Restorative Challenge"**

Synopsis: This presentation will focus specifically on systematic preoperative diagnosis, including a classification of anterior implant sites and subsequently develop the related therapeutic modalities comprising the use of guided bone regeneration and connective soft tissue grafting, predictability leading to restoration compatible implant positioning and esthetic soft tissue contours. Furthermore, selected restorative aspects such as abutment selection, impression techniques, provisionals for the development of optimal peri-implant soft tissue contours and fabrication guidelines for the definitive superstructure will be discussed.

Curriculum Vitae: Dr. Urs C. Belser is a professor and chairman of Fixed Prosthodontics and Occlusion at the University of Geneva, Switzerland. He has served as a senior lecturer in Fixed Prosthodontics and Dental Materials at the University of Zurich and, from 1984 to 1990, as the president of the Swiss Association of Prosthetic Dentistry. Belser's research interests concern the fields of: functional behavior of the muscles of mastication, periodontal prosthesis, dental ceramic adhesive prosthodontics, and dental implants. He has published numerous papers and extensively lectured both nationally and internationally.

Friday, February 23, 1996
10:45AM - 11:30AM
11:30AM - 12:00PM

DISCUSSION: DR. URS C. BELSER
PANEL DISCUSSION: ALL SPEAKERS



DR. STEPHEN M. PAREL

"The Branemark System"

Synopsis: This presentation will focus primarily on the Branemark Implant System.

Curriculum Vitae: Dr. Parel received his dental degree from the Medical College of Virginia in 1969. He spent one year as a general practice resident with the Veterans Administration Hospital in Richmond, VA, followed by a two year residency in prosthodontics at the Wadsworth Veterans Administration Hospital in Los Angeles. He received his maxillofacial prosthetics training in Houston, TX, at the M.D. Anderson Hospital and Tumor Institute in 1973. He became a faculty member in the University of Texas System in 1975, rising to the rank of full professor in the San Antonio Medical and Dental Schools in 1978. He most recently served as Head of the Maxillofacial Prosthetics Division in the Department of Prosthodontics. Dr. Parel is a Diplomate of the American Board of Prosthodontics and a member of many professional organizations, including the American Dental Association and American College of Prosthodontists. He has been Course Director for Osseointegration training at the University of Texas Health Science Center School of Dentistry in San Antonio, one of the four original Branemark training centers in the United States. His literature contributions include over 45 scientific articles as principle author, and multiple textbook contributions. He was editor and co-author of *Esthetics and Osseointegration*, a landmark reference source for implant dentistry and recently authored a second text on the *Smiline System*. He was co-founder of Osseointegration Seminars Incorporated, is a Past President of the American Academy of Maxillofacial Prosthetics and is immediate Past President of the Academy of Osseointegration. He is a consultant to Nobelpharma.

Friday, February 24, 1996
12:00PM - 1:30PM

ANNUAL ACADEMY LUNCHEON

PRESENTATION OF THE STANLEY D. TYLMAN RESEARCH AWARDS FOR 1995

Dr. Peter S. Lund
Chairman, Tylman Research Award Committee

FIRST PLACE WINNER

Dr. Paula K. Yliheikkilä
University of North Carolina School of Dentistry
"Preliminary Comparison of Mineralizing Multilayer Cultures
Formed by Primary Fetal Bovine Mandibular Osteoblasts Grown on
Titanium, Hydroxyapatite and Glass"
Research Supervisor: Dr. Lyndon F. Cooper
Program Director: Dr. David A. Felton

SECOND PLACE WINNER

Dr. Tarek S. AbdelHalim
University of Illinois at Chicago
"Internal Dimensional Changes During Setting of Dental Investment"
Research Supervisor: Dr. Stephen D. Campbell
Program Directors: Dr. Peter S. Lund, Dr. Stephen D. Campbell

THIRD PLACE WINNER

Dr. Steven K. Nelson
Medical College of Georgia
"Lipopolysaccharide Affinity for Titanium Implant Biomaterials"
Research Supervisor: Dr. Kent L. Knoernschild
Program Directors: Dr. F. Michael Gardner

PRESENTATION OF THE GEORGE H. MOULTON AWARD FOR

"OUTSTANDING ACHIEVEMENT IN THE ART AND SCIENCE OF FIXED PROSTHODONTICS"

Dr. Ronald D. Woody
Chairman, George H. Moulton Award Committee

1996 Recipient
Dr. Samuel E. Guyer
Chesterfield, MO

PRESENTATION OF NEW MEMBERS FOR 1996

President Harvey L. Colman

Friday, February 23, 1996

1:30PM - 2:15PM

2:15PM - 2:45PM

DISCUSSION: DR. STEPHEN M. PAREL
PANEL DISCUSSION: ALL SPEAKERS



DR. AXEL KIRSCH

"IMZ System - So Far and Future"

Synopsis: The fundamental rationale behind the continuous evolution of the IMZ systems hardware and clinical rehabilitation concepts is and always was to optimize biomechanical, periodontal, and mechanical aspects for a user friendly and predictable clinical application. State-of-the-art implant prosthetics requires, besides precise and intelligent hardware components, a well understood and clearly structured concept addressing each and every issue during the rehabilitation process for a long-term predictability. Questions, proposed to all speakers, will be discussed in detail.

Curriculum Vitae: Dr. Axel Kirsch was born in Bietigheim, Germany, and received his Doctor of Medical Dentistry degree from the University of Freiburg, Freiburg, Germany, in 1969. In 1970 he began experimental and clinical implantology and he is the founder of the IMZ Implant System. He maintains a private practice in Filderstadt, Stuttgart, Germany and is an Associate Professor in the Department of Oral and Maxillofacial Surgery at Loma Linda University, Loma Linda, CA. He is also an Associate Professor in the Department of Oral and Maxillofacial Surgery at Tufts University, Boston, MA. Dr. Kirsch specialized in oral rehabilitation, periodontology, oral surgery, and clinical and experimental implantology. Since 1974, Dr. Kirsch has given training courses and lectured throughout the world on the IMZ Implant System and on preprosthetic surgery and peri-implant prosthetics.

Friday, February 23, 1996

2:45PM - 3:30PM

3:30PM - 4:00PM

DISCUSSION: DR. CHARLES E. ENGLISH
PANEL DISCUSSION: ALL SPEAKERS



DR. DANIEL Y. SULLIVAN

"Implants in Restorative Dentistry"

Synopsis: This presentation will address the questions proposed to all speakers on the Implant Symposium.

Curriculum Vitae: Dr. Daniel Y. Sullivan is an internationally recognized authority on dental implants and prosthetic dentistry. He co-founded and co-directed Osseointegration Seminars, Inc., an implant training and education company that trained over 10,000 dentists in two day seminars. He also co-authored the highly successful text entitled: Esthetics and Osseointegration, a text widely used at the graduate levels in dental schools throughout the world. He is the author of many dental articles on implant prosthodontics, including the seminar series in the International Journal of Periodontics and Restorative Dentistry, co-authored by Dr. Burt Langer and entitled The Impact of Osseointegration on the Interrelationship of Periodontics and Restorative Dentistry. Dr. Sullivan has maintained a full time private practice specializing in implant prosthodontics since 1976 in Washington, DC. In addition, he currently serves as Adjunct Associate Professor at the University of Pennsylvania School of Dentistry and as Clinical Professor in the Department of Periodontology and Implant Dentistry at Temple University School of Dentistry. Dr. Sullivan lectures extensively in North American, Europe and Asia. He is active in several dental organizations, serving as President of the Academy of Osseointegration in 1992-1993.

PANEL DISCUSSION - AUDIENCE QUESTIONS

PANEL MODERATOR: DR. CARL E. RIEDER

DR. CHARLES E. ENGLISH
DR. URS C. BELSER
DR. STEPHEN M. PAREL
DR. AXEL KIRSCH
DR. DANIEL Y. SULLIVAN



DR. PETER SCHARER

"All-Ceramic Crowns"

Synopsis: The following issues will be discussed in detail: evaluation of new porcelain systems for full crowns, laminate veneers, and inlays. Discussion will center around Material Aspects: How good are these new systems; Technical Aspects: Marginal fit and laboratory problems; Clinical Aspects: Preparation design, Impression procedures, and Temporization. Cementation will also be discussed regarding the advantages of composite resin cements over conventional cements. Case presentation and discussion of long-term results of full porcelain systems will also be presented. In addition, esthetically modified removable and implant-supported restorations will be shown.

Curriculum Vitae: Dr. Peter Scharer obtained his DMD degree from Zurich University in 1959. He attended graduate school in prosthodontics at Zurich University, completing his course of study in 1962. From 1963 to 1965 he was a graduate student in Periodontics at Eastman Dental Center in Rochester, NY. In 1966 he obtained his MS degree in Dental Research from the University of Rochester in New York. In 1966 he was Visiting Research Associate at Osaka University in Japan. From 1967 to 1972 he was Senior Lecturer in Prosthodontics at the Dental School in Berne, Switzerland. In 1972 he became Head of the Department of Crown and Bridge at Zurich University, Zurich, Switzerland. From 1982 to 1984 he was Dean of the Medical School at Zurich University and since 1994 he has been Dean of the Dental School, Zurich University, Zurich, Switzerland.

Saturday, February 24, 1996

9:30AM - 10:15AM

10:15AM - 10:45AM

DISCUSSION: DR. JAN H. N. PAMEIJER

PANEL DISCUSSION: ALL SPEAKERS



DR. JACK D. PRESTON

"CAD/CAM for Ceramic Restorations"

Synopsis: Many non-traditional forming techniques have been developed for fabricating dental restorations. Among the most intriguing is the application of CAD/CAM technology in dentistry. This presentation will overview the current status of CAD/CAM and related techniques and offer some perspective of future development.

Curriculum Vitae: Dr. Preston is Chairman of the Department of Oral and Maxillofacial Imaging and The Don and Sybil Harrington Foundation Professor of Esthetic Dentistry at the University of Southern California, Los Angeles, CA. He is Editor in Chief of the International Journal of Prosthodontics. Dr. Preston is a Diplomate and Past President of the American Board of Prosthodontics, Past President of the American College of Prosthodontists, Past President of the International College of Prosthodontics, and Past President of the American Academy of Esthetic Dentistry.

Saturday, February 24, 1996

10:45AM - 11:30AM

11:30AM - 12:00PM

DISCUSSION: DR. GERALD J. CHICHE

PANEL DISCUSSION: ALL SPEAKERS



DR. JAN H. N. PAMEIJER

"Ceramic Partial Coverage Restorations"

Synopsis: The traditional gold partial coverage restoration has an excellent reputation. Today, however, most patients will object to the visible display of gold. The all-ceramic partial coverage restoration can be an alternative, meeting even the most exacting esthetic demands. Step by step procedures for the fabrication of porcelain onlays will be presented and the pros and cons will be discussed.

Curriculum Vitae: Dr. Jan H. N. Pameijer graduated from Utrecht University in Holland and received his DMD from Tufts University, Boston, MA, in 1962. He is currently engaged in private practice and Director of the Dental Center for Postgraduate Courses in Hoofddorp, Holland.



DR. PAULA K. YLIHEIKKILÄ
TYLMAN RESEARCH GRANT AWARD WINNER FOR 1995

"Preliminary Comparison of Mineralizing Multilayer Cultures Formed by Primary Fetal Bovine Mandibular Osteoblasts Grown on Titanium, Hydroxyapatite and Glass"

Curriculum Vitae: Dr. Paula Yliheikkilä received her LDS degree in 1990 from the University of Helsinki Institute of Dentistry, Finland and practiced for two years in Finland. She obtained her MS Degree and Certificate in Prosthodontics in 1995 from the University of North Carolina School of Dentistry. Currently, Dr. Yliheikkilä is an Adjunct Instructor in the Department of Prosthodontics at UNC and teaches in the undergraduate fixed and removable prosthodontic courses. She continues her research interests in the field of bone cell physiology.

Synopsis: Bone formation at implant surfaces may be directly influenced by effects of the implant material on osteoblast behavior. Cell culture models of osteoblast physiology may be used to investigate the interaction of osteoblastic cells with various surfaces. In the present study, primary cultured fetal bovine mandibular osteoblastic cells were cultured on titanium, ceramic hydroxyapatite and glass coverslip surfaces to allow for the comparison of the mineralizing matrix elaborated by osteoblasts grown on different implant material surfaces. Morphological and immunohistochemical analysis revealed the similar formation of multilayered, mineralizing cultures on these three surfaces. The qualitative similarity of the matrix formed on these culture surfaces may reflect similar qualitative "in vivo" responses of bone to titanium and hydroxyapatite implants.



DR. GERARD J. CHICHE

"Analysis of Current Ceramo-Metal Techniques"

Synopsis: This presentation will evaluate current ceramo-metal techniques from an esthetic and functional standpoint. Emphasis will be placed on preparations, marginal integrity, impressioning, shade matching, and cementation. Comparison with all-ceramic crowns and porcelain veneers will be discussed in terms of their respective indications, esthetic results, and expected durability.

Curriculum Vitae: Dr. Gerard J. Chiche is a Full Professor in Fixed Prosthodontics at Louisiana State University. He has been actively involved in Esthetic Dentistry for the last 10 years under the guidance of his chairman, Dr. James D. Harrison, at Louisiana State University School of Dentistry. He has given over 400 programs nationally and internationally. He is a member of the American Academy of Fixed Prosthodontics and is also, with Mr. Alain Pinault, the author of the textbook *Esthetics of Anterior Fixed Prosthodontics*, published by Quintessence Publishing Company.

Saturday, February 24, 1996

2:45PM - 3:30PM

3:30PM - 4:00PM

DISCUSSION: DR. JACK D. PRESTON

PANEL DISCUSSION: ALL SPEAKERS



DR. GORDON J. CHRISTENSEN

"Tooth Colored Crowns - 1996"

Synopsis: Non-metallic tooth colored crowns are becoming more popular because of superior esthetics, metal allergies, and the desire to eliminate metal from the mouth. Porcelain fused-to-metal crowns are still used in the majority of patients. Currently, InCeram (Vident) and Empress (Ivoclar) crowns are the most popular. These crowns will be compared with other ceramic brands and with filled resin crowns and partial crowns. All aspects of the crown procedure will be summarized briefly including: diagnostic procedures; tooth preparations; tissue management; impressions; provisional restorations; laboratory procedures; cementation; and post operative preventive procedures.

Curriculum Vitae: Dr. Gordon Christensen is co-founder and Senior Consultant of Clinical Research Associates, which conducts research in all areas of dentistry and relates it to clinical practice. The CRA Newsletter has published research findings to the profession monthly since 1976. Dr. Christensen is Director of Practical Clinical Courses, a continuing education career development program for the dental profession initiated in 1981. Early in his career, Dr. Christensen taught full time at three Universities: Washington, Kentucky, and Colorado. He helped initiate both the University of Kentucky and the University of Colorado dental schools. During this period he served as a Department Chairman, Associate Dean, and Full Professor. He currently participates on the post-graduate faculties of many dental schools and is and Adjunct Professor at Brigham Young University and a Clinical Professor at the University of Utah. He has lectured throughout the world and has published widely. He holds a DDS from the University of Southern California, MSD from the University of Washington and a PhD from the University of Denver. Dr. Christensen is a Diplomate of the American Board of Prosthodontics, a Fellow of the American College of Dentists, the International College of Dentists, American College of Prosthodontists, the American Academy of Fixed Prosthodontics, the Academy of General Dentistry(Hon), and the Royal College of Surgeons of England.

Saturday, February 24, 1996

4:00PM - 5:00PM

PANEL DISCUSSION - AUDIENCE QUESTIONS

PANEL MODERATOR: DR. CARL E. RIEDER

DR. PETER SCHARER
DR. JACK D. PRESTON
DR. JAN H. N. PAMEIJER
DR. GERARD J. CHICHE
DR. GORDON J. CHRISTENSEN