31st Annual
USC Periodontal & Implant Symposium
Clinical Realities and Future Prospects

General Sessions: Friday & Saturday, January 27 & 28, 2006
Dental Hygiene Forum: Saturday, January 28, 2006
Workshops: Thursday, Saturday & Sunday, January 26, 28 & 29, 2006

MARRIOTT
LOS ANGELES AIRPORT
5855 W. Century Blvd, Los Angeles, CA 90045
Dear colleagues and friends:

We are pleased to invite you to attend the 31st Annual USC Periodontal & Implant Symposium. Recent innovations in clinical dentistry have produced an array of new materials, techniques and concepts, which have significantly impacted our therapeutic paradigm. To remain at the forefront of clinical practice, there is a need for continuous refreshment of our knowledge base. The 31st Annual USC Periodontal & Implant Symposium will feature an international panel of experts from the US, Europe and Asia. The program boasts four days with a diverse range of educational opportunities. These include all-day hands-on workshops for in-depth training, as well as a full day program dedicated for dental hygienists. Although the majority of the general-session presentations are multidisciplinary in nature, there are also separate sessions, designated as “Surgical Track”, “Restorative Track”, and “Dental Hygiene Forum” to focus on specific disciplines.

The theme of this year’s symposium is “Clinical Realities and Future Prospects”, which is reflective of the innovations which have been introduced into the clinical practice, as well as future developments. This is an educational opportunity not to be missed by the entire oral health care team, including specialists, restorative dentists and dental hygienists.

We hope to see you all in Los Angeles in January 2006.

Homayoun Zadeh, DDS, PhD
Symposium Chair and Moderator
# Program-At-A-Glance

## Hands-on Workshop (Thursday, January 26, 2006)

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<tr>
<th>Time</th>
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<tbody>
<tr>
<td>8:00 am</td>
<td>Stephen Wallace (USA) Maxillary Sinus Augmentation (Workshop #1) - Page 7 &amp; 14</td>
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## General Session (Friday, January 27, 2006)

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<th>Time</th>
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<tr>
<td>7:00 am</td>
<td>Registration and Continental Breakfast</td>
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<tr>
<td>8:00 am</td>
<td>Homayoun Zadeh (USA): Opening Remarks</td>
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<tr>
<td>8:20 am</td>
<td>Harold Slavkin (USA) - Page 6 &amp; 9</td>
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<td>9:10 am</td>
<td>Ulf Wikesjö (USA) - Page 7 &amp; 9</td>
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<tr>
<td>10:00 am</td>
<td>Coffee Break &amp; Exhibits</td>
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<tr>
<td>10:30 am</td>
<td>Dennis Tarnow (USA) - Page 7 &amp; 10</td>
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<tr>
<td>10:40 am</td>
<td>Peter Nordland (USA) - Page 5 &amp; 12</td>
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<tr>
<td>11:30 am</td>
<td>PD Miller (USA) - Page 4 &amp; 12</td>
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<td>12:20 pm</td>
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### Surgical Track (Friday, January 27, 2006)

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<tr>
<td>1:20 pm</td>
<td>Hom-Lay Wang (USA) - Page 8 &amp; 10</td>
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<tr>
<td>2:10 pm</td>
<td>Tomaso Vercellotti (Italy) - Page 7 &amp; 10</td>
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<tr>
<td>3:00 pm</td>
<td>Coffee Break &amp; Exhibits</td>
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<tr>
<td>3:30 pm</td>
<td>Stephen Wallace (USA) - Page 7 &amp; 10</td>
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<tr>
<td>4:20 pm</td>
<td>Cherilyn Sheets (USA) - Page 6 &amp; 10</td>
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### Restorative Track (Friday, January 27, 2006)

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<tr>
<td>1:20 pm</td>
<td>Arnold Rosen (USA) - Page 6 &amp; 11</td>
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<td>2:10 pm</td>
<td>Cherilyn Sheets (USA) - Page 6 &amp; 11</td>
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<tr>
<td>3:00 pm</td>
<td>Michel &amp; Pascal Magne (USA) - Page 3 &amp; 11</td>
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## General Session (Saturday, January 28, 2006)

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<tr>
<td>7:30 am</td>
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<td>8:30 am</td>
<td>Allan Charles (USA): Page 3 &amp; 11</td>
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<tr>
<td>9:20 am</td>
<td>Homayoun Zadeh (USA): Page 8 &amp; 11</td>
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<td>10:10 am</td>
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<td>11:30 am</td>
<td>PD Miller (USA): Page 4 &amp; 12</td>
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<td>12:20 pm</td>
<td>Lunch</td>
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<tr>
<td>1:30 pm</td>
<td>Masao Yamazaki (Japan): Page 8 &amp; 12</td>
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<tr>
<td>2:20 pm</td>
<td>Christopher Marchack (USA): Page 4 &amp; 12</td>
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<tr>
<td>3:10 pm</td>
<td>Adriano Piattelli (Italy): Page 5 &amp; 12</td>
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### Dental Hygiene Forum (Saturday, January 28, 2006)

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<tr>
<td>7:30 am</td>
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<tr>
<td>8:30 am</td>
<td>Moderator (USA): Opening Remark</td>
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<tr>
<td>8:40 am</td>
<td>Mahvash Navazesh (USA): Page 4 &amp; 13</td>
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<td>9:30 am</td>
<td>Joan Otomo-Corgel (USA): Page 5 &amp; 13</td>
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<td>Coffee Break &amp; Exhibits</td>
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<tr>
<td>10:50 am</td>
<td>David Paquette (USA): Page 5 &amp; 13</td>
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<tr>
<td>1:30 pm</td>
<td>J Jacqueline Dylla (USA): Page 3 &amp; 13</td>
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<tr>
<td>2:45 pm</td>
<td>Coffee Break &amp; Exhibits</td>
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<td>3:15 pm - 4:45 pm</td>
<td>Cocktail Reception</td>
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## Hands-on Workshop (Saturday, January 28, 2006)

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<tr>
<td>10:30 am</td>
<td>Allan Charles (USA) Periodontal Microsurgery (Workshop #2) - Page 3 &amp; 14</td>
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## Hands-on Workshop (Sunday, January 29, 2006)

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<tr>
<td>8:00 am</td>
<td>Tomaso Vercellotti (Italy) Implant Site Development with Piezosurgery (Workshop #3) - Page 7 &amp; 14</td>
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## Topics

- Tissue Engineering
- Esthetic Restorations
- Systemic Health
- Implant Esthetics
- Periodontal Plastic and Microsurgery
- Periodontal Therapy
- Implant Site Development
- Complex Implant Therapy
- Occupational Injury: Risks, Prevention & Therapy
Renato Celletti, DDS, MD (Italy)
Dr. Celletti is Professor and Chair of Periodontics at the University “G. d’Annunzio” in Chieti, Italy. He earned his MD degree “Cum Laude” at the University of Rome, Italy. He has received his Doctoral of Dental Surgery Degree from the University of Ancone, Italy. Following 7 years in private practice, he attended the University of Southern California and earned his advanced Certificate in Periodontics. Dr. Celletti maintains private specialty practice focusing on the treatment of periodontal diseases and osseointegrated implants. He is involved in research and lectures nationwide and internationally. Dr. Celletti is a Diplomate of the American Board of Periodontology, an active member of the American Academy of Osseointegration and the American Academy of Periodontology.

Topic: Platform Switching Redefines the “Peri-Implant” Biologic Width

Allan Charles, DDS (USA)
Dr. Allan Charles received his D.D.S from the University of Illinois and certificate in periodontics from the University of Southern California. He is in private practice limited to periodontics in Pasadena, California with an emphasis on periodontal cosmetic surgery, periodontal microsurgery and the surgical placement of implants. He has used magnification beginning over 20 years ago before committing to use of the surgical microscope for over ten years. He has taught periodontal microsurgery classes for the American Academy of Periodontology, the California Society of Periodontist, the American Dental Association and at the Greater New York Dental Meeting.

Topic: Periodontal Microsurgery

Jacquelyn Dylla, DPT, PT (USA)
Assistant Professor of clinical physical therapy in USC’s Department of Biokinesiology and Physical Therapy, has served USC for 9.5 years on the University Park Campus (UPC). While serving as the Director of Physical Therapy in the University Park Student Health Center, Dr. Dylla made services available to the faculty and staff and thus started the faculty practice on the UPC. With the high prevalence of neck and back pain on campus, she partnered with USC’s School of Cinema/Television and created a CD-ROM entitled, Spine Tuning: a video guide to breaking back habits. Currently, she is the director of Physical Therapy Associates on the UPC, holds a part-time faculty position with the School of Dentistry, and is a clinical instructor for physical therapy interns from USC’s Dept of Biokinesiology and Physical Therapy.

Topic: Fit to Sit: Strategies to Maximize Function and Minimize Occupational Pain

Michel Magne, CDT (USA)
Mr. Magne was certified in Neuchâtel as dental technician (CDT) in 1979 and kept developing his technical education in fixed prosthodontics (ceramics) and esthetics until 1984. Between 1985 and 1991, he was consecutively directing two dental laboratories as a master ceramist, specializing in implant-supported work and complex oral rehabilitation. Since 1992, he has been the owner and director of Oral Design Center, a dental laboratory in Montreux (Switzerland). He was recently invited to be the first Associate Professor and Director of Dental Technology at the University of Southern California School of Dentistry. He is in charge of a number of esthetic courses and postgraduate education. Mr. Magne has authored and co-authored numerous articles on esthetic dentistry and lectured frequently on these topics.

Topic: Natural Oral Esthetics

Pascal Magne, DMD, PhD (USA)
Associate Professor and Director of Esthetic Dentistry at the University of Southern California School of Dentistry. Dr. Magne obtained his postgraduate education in Prosthodontics and Operative Dentistry from the University of Geneva. He was awarded with major grants by the Swiss Science Foundation, the Swiss Foundation for Medical-Biological Grants and the International Association for Dental Research. He also spent two years as a full-time research scholar in Biomaterials and Biomechanics at the University of Minnesota between 1997 and 1999. He received his PhD degree in 2002. Dr. Magne is the author of the textbook Bonded Porcelain Restorations.

Topic: Natural Oral Esthetics
Speakers

Christopher Marchack, DDS (USA)
Dr. Marchack is a graduate of the University of the Pacific School of Dentistry. He has received his prosthodontic certificate from the University of Southern California. Dr. Marchack is an active member of the Academy of Prosthodontics, the Pacific Coast Society for Prosthodontics, the American College of Prosthodontists, the Academy of Osseointegration, the San Gabriel Valley Dental Implant Study Club, and the Southern California Osseointegration Study Club. He has written numerous articles in peer reviewed journals, relating to implant dentistry. Dr. Marchack serves on the editorial review board of the Journal of Prosthetic Dentistry and Quintessence International. He has lectured nationally and internationally and maintains a full-time practice in Pasadena, California. He is the founder and current director of the San Gabriel Valley Dental Implant Study Club, the co-director of the Odontic Seminar at USC, and an Associate Clinical Professor at the USC School of Dentistry Continuing Education.


Jill McNitt-Gray, PhD (USA)
Dr. McNitt-Gray is an Associate Professor at the University of Southern California, Department of Kinesiology in the College of Letter, Arts and Sciences. She is also the Director of the Biomechanics Research Lab. Witaya Mathiyakom, Ph.D., P.T., who is a Post-Doctorate Fellow of USC Andres Gerontology Center will be the co-presenter at this session.

Topic: Mechanical Loading Implications of Control Strategies Used by Hygienists During Periodontal Tasks

Preston D. Miller, DDS (USA)
Dr. Miller is a Merit Graduate of the Medical College of Virginia School of Dentistry and the University of Alabama specialty training in Periodontics. He is a member of Omicron Kappa Upsilom and a clinical professor at the University of Tennessee College of Dentistry. Dr. Miller introduced the concept of periodontal plastic surgery to periodontics. He was first to present the free soft tissue autograft for root coverage, and introduced a new classification of recession to the literature. He has published 28 scientific papers, contributed to 4 textbooks, and has lectured to over 250 dental societies both nationally and internationally. In 1993 he was named the Outstanding Alumnus at Medical College of Virginia. In 1999 he received the Master Clinician Award from the American Academy of Periodontology. In 2003 he was voted the Tennessee Dentist of the Year. He has served as President of the Tennessee Society of Periodontists, the Memphis Dental Society, and the Southern Academy of Periodontology. He has also served as Vice President of the Tennessee Dental Association, and Chairman of the ADA Committee on Dental Relief. He served as a Trustee of the American Academy of Periodontology and now serves as President-elect.

Topic: The Regeneration of the Interdental Papilla

Mahvash Navazesh, DMD (USA)
Dr. Navazesh is an Associate Professor and the Chair of the Division of Diagnostic Sciences at the University of Southern California School of Dentistry. Dr. Navazesh received her DMD degree from the University of Pennsylvania, as well as her certificates in General Practice, Oral Medicine Residency and Clinical Research Investigation. Over the past 20 years she has focused her research interest on salivary gland hypofunction. She has published papers on criteria for definition, diagnosis and assessment of xerostomia and has compared methods for collection and stimulation of whole mouth saliva.

Topic: Women’s Health: Does Gender Matter?
Speakers

W. Peter Nordland, DMD, MS, FFAED (USA)
Dr. Peter Nordland received his DMD degree at Temple University and has completed a general practice residency at the Gerry Pettis Memorial V.A. Hospital and Loma Linda Medical Center. Later, Dr. Nordland completed his surgical residency at Loma Linda University earning a Masters certificate in Periodontics. He is a Fellow of the American Academy of Esthetic Dentistry and co-founder of the American Academy of Oral Plastic Surgeons. He is the director of the Oral Microsurgical Residency Program at the Newport Coast Oral-Facial Institute and is an Assistant Professor of Periodontics at Loma Linda University. Dr. Nordland has presented over 150 professional papers and lectures internationally. Dr. Nordland has authored and co-authored 3 textbooks, book chapters and several journal publications on Periodontal Plastic Surgery. Topic: Oral Plastic Surgery to Assist the Esthetic Restorative Outcome

Joan Otomo-Corgel, DDS, MPH, FACD (USA)
Dr. Joan Otomo-Corgel is a graduate of UCLA Schools of Dentistry (DDS) and Public Health (MPH), West Los Angeles VAMC General Practice Residency and Postdoctoral Periodontics. She is an Adjunct Assistant Professor in the UCLA Department of Periodontics, faculty and chair of research at the Greater Los Angeles VA Health Care Center Dental Service and faculty at the WLA City College of Dental Hygiene. She has a private practice limited to Periodontics, oral medicine, and implantology in Los Angeles. Dr. Otomo-Corgel is the past president of the Western Society of Periodontology, National VA Periodontists, the UCLA Chapter of OKU, a member of the Board of Trustees of the American Academy of Periodontology, Board of Directors of the California Society of Periodontists and UCLA School of Dentistry Board of Counselors. She has contributed to over 50 journals and texts. She was a Governor’s appointee to the California State University Board of Trustees and served as Vice Chairman. Dr. Otomo-Corgel was the 1997 UCLA School of Dentistry Alumnus of the Year and OKU Robert Wolcott Recipient. Topic: Osteoporosis and Periodontal Disease

David W. Paquette, DMD, MPH, DMSc (USA)
Dr. Paquette is Associate Professor and Graduate Program Director in the Department of Periodontology at the University of North Carolina at Chapel Hill. He received his Doctor of Dental Medicine degree, Masters in Public Health, Doctor of Medical Sciences and Certificate in Periodontics from the Harvard University. Dr. Paquette is active in many international and national organizations including the International Association for Dental Research and the American Academy of Periodontology. Dr. Paquette’s major research interests include the evaluation of novel treatments for periodontal diseases, design and statistical considerations for clinical trials, and the interplay between periodontal and systemic diseases. Dr. Paquette is a diplomate of the American Board of Periodontology and practices Periodontics in Chapel Hill. Topic: Local Antimicrobial Therapy for the Management of Periodontal Disease

Adriano Piattelli, DDS, MD (Italy)
Dr. Piattelli received his Doctor of Medicine from the Catholic University in Rome, Specialty Board of General Surgery from Chieti University and Specialty Board of Dentistry from Rome University. He is Professor, Dean and Director of Studies and Research at the University of Chieti Dental School. He has also been the Honorary Senior Lecturer at the Department of Oral Medicine, Eastman Dental Institute and Hospital for Health Care Sciences in London. Dr. Piattelli is member of the Italian Dental Association, Italian Society of Oral Pathology and Medicine, International Association of Oral Pathologists, International Association for Dental Research, Italian Society of Osseointegration and the American Academy of Osseointegration. He was member of the Board of the Journal of Oral Pathology and Medicine and member of the Board for Clinical Implant Dentistry and Related Research. Dr. Piattelli is a reviewer for several scientific journals. Topic: Peri-Implant Bone in Different Loading Conditions: Collagen Fibers Organization, Mineral Density and Osteocytes and Microvasculature Network
Harold Slavkin, DDS (USA)

Harold C. Slavkin, D.D.S., one of the world’s leading authorities on craniofacial development and genetic birth defects, began his tenure as dean of the University of Southern California School of Dentistry in August 2000. As dean, he holds the school’s G. Donald and Marian James Montgomery Dean’s Chair in Dentistry.

Dr. Slavkin received with honors a B.A. in English literature in 1961 at USC and earned his D.D.S. from the School of Dentistry in 1965. For the next seven years, he was a practicing dentist in Westwood while doing research as a postdoctoral fellow, first at the UCLA School of Medicine and then in the USC department of biochemistry.

In 1968, Dr. Slavkin joined the faculty of the USC School of Dentistry and began his career as an educator and scientist. He is the author of Developmental Craniofacial Biology, published in 1979, has edited nine books and published 260 peer-reviewed scientific papers. He was the founding director of the Center for Craniofacial Molecular Biology (1989-1995).

Dr. Slavkin returned to USC after serving as the sixth director of the National Institute of Dental and Craniofacial Research (NIDCR), one of the National Institutes of Health. Under his leadership, the NIDCR served as the lead agency on the first-ever Surgeon General’s Report on Oral Health released in June 2000. His tenure was also marked by development of the NIDCR’s first strategic plan, the renaming of the Institute to better reflect the scope of its activities and a $110 million funding increase between 1995 and 1999.

Dr. Slavkin is a member of the Institute of Medicine of the National Academy of Sciences, a Fellow of the American Association for the Advancement of Science, and of both the American College of Dentistry and the International College of Dentistry, a member of the American Dental Association, the International Association for Dental Research and numerous other professional and scientific organizations. He holds honorary doctoral degrees from Georgetown University, the University of Paris, the University of Maryland, the University of Medicine and Dentistry of New Jersey, the University of Connecticut and the University of Montreal.

Topic: Maps, Codes and Meanings: Tissue Engineering in Clinical Dentistry

Arnold Rosen, DDS, MBA (USA)

Dr. Rosen’s background spans all arenas of patient care as a practitioner, administrator, and academician. His specialty from Boston University School of Graduate Dentistry and Sloan Kettering Memorial Cancer Institute was Prosthodontics and Maxillo-Facial Prosthetics and he has since added an MBA from Boston University School of Business Administration. He has served as Director of Hospital Dentistry at New England Medical Center Hospital, Director of the Dental Implant Center at Tufts University School of Dental Medicine, and founder of the Tufts Dental Implant Fellowship Program. Dr. Rosen has also worked in telemedicine and teledental technologies for several years as a consultant to the international medical forum in Buenos Aires, Argentina, and as co-founder of a teledentistry company and founder of Transcend, Inc.

Topic: Treatment of the Edentulous Patient

Cherilyn Sheets, DDS (USA)

Dr. Sheets maintains a full-time private practice in Newport Beach, California, with a special emphasis on esthetic rehabilitative dentistry and implants. She is Co-Executive Director of the Newport Coast Oral Facial Institute, Clinical Professor of Restorative Dentistry at the USC School of Dentistry and is on their Board of Counselors. Dr. Sheets is President of Perimetrics, LLC, Past President of the American Academy of Esthetic Dentistry and the American Association of Women Dentists, and Founder and Chairman of the Board of The Children’s Dental Center in Inglewood, California. She is a member of the American Academy of Restorative Dentistry, the American Equilibration Society, the Pacific Coast Society of Prosthodontics and the Academy of Osseointegration. She is also a Fellow in the Academy of General Dentistry, American College of Dentists, International College of Dentists, Academy of Dentistry International, and the Pierre Fauchard Academy of Dentistry. She is recipient of the Gordon Christensen Award for Excellence in Lecturing and the 2004 USC School of Dentistry Alumnus of the Year. Dr. Sheets serves on numerous editorial boards of peer-reviewed journals.

Topic: Percussion Probe Diagnostics for Evaluation of Fixture Stability and Osseointegration
Speakers

Dennis Tarnow, DDS (USA)
Presently Professor and Chairman of the Department of Implant Dentistry and Periodontology at the New York University College of Dentistry. Dr. Tarnow is also Professor of Periodontics and Prosthodontics at the New York University College of Dentistry. He has a certificate in Periodontics and Prosthodontics and is a Diplomate of the American Board of Periodontology. Dr. Tarnow maintains a private practice in New York City. He has published numerous articles on perio-prosthodontics and implant dentistry and has lectured extensively both in the United States and abroad. He is the 2005 recipient of the Mater Clinician Award from the American Academy of Periodontology.
Topic: Biological and Clinical Factors for Ultimate Esthetics Around Implants

Tomaso Vercellotti, MD, DDS (Italy)
Dr. Vercellotti obtained his degree in Medicine and Surgery cum laude and his specialty in Odontostomatologia cum laude University of Studies of Genova (Italy). He collaborates with the department of Periodontology at the University of Padova (Italy), with the School of Specialization in Maxillo-Facial Surgery at the University Udine (Italy), Pierre & Marie Curie-U.F.R. de Stomatologie et de Chirurgie Maxillo-facile-University of Paris (France), Harvard Institute for Advanced Dental Studies of Boston (USA). Dr. Vercellotti is an active member of the Academy of Osseointegration, European Association for Osseointegration and the Italian Society of Periodontology. He is also author of numerous articles in international scientific journals. Inventor of Piezoelectric Bone Surgery, Dr. Vercellotti maintains a dental practice in Genova (Italy), specialized in Periodontology and Implantology.
Topic: Bone Regeneration Techniques in Implantology. Horizontal and Vertical Bone Defect Regeneration Using Piezosurgery

Stephen Wallace, DDS (USA)
Dr. Wallace is a 1971 graduate of Boston University School of Graduate Dentistry with a certificate in Periodontics. He has been on the faculty of the New York University Department of Implant Dentistry for over 10 years with the academic rank of Associate Professor. He is a Diplomate of the International Congress of Oral Implantology and a Fellow of the Academy of Osseointegration. Dr. Wallace lectures at home and abroad on issues relating to dental implantology and periodontics. He is the author of journal articles and textbook chapters on implantology including an evidence-based review of the sinus augmentation procedure recently published in the Annals of Periodontology. He is co-editor of a just-published sinus elevation textbook released in Italy. In addition to his faculty appointment, Dr. Wallace maintains a private practice for Periodontics in Waterbury, CT.
Topic: Sinus Lift Surgery: Improving Success Through Technique, Complication Management, Implant and Graft Material Selection

Ulf Wikesjö, DDS, DMD, PhD (USA)
Dr. Ulf ME Wikesjö is Professor of Periodontology, Temple University School of Dentistry and Associate Professor of Periodontology, Lund University, Malmö, Sweden. He is the founding Director of the Laboratory for Applied Periodontal and Craniofacial Regeneration. Dr. Wikesjö received his DDS, as well as Ph.D. (Odont. Dr.) from University of Lund School of Dentistry, Malmö, Sweden, DMD from Temple University, certification for advanced Periodontology at University of Lund, Sweden, and Loma Linda University. He is a Diplomate of the American Board of Periodontology. He serves on the Editorial Board of several scientific journals. He is the author of more than 150 original articles in refereed scientific journals and texts, and he has made more than 150 invited presentations at international scientific workshops and conferences, academic institutions, and learned societies.
Topic: Alveolar Ridge Augmentation and Implant Osseointegration: GBR, Bone Biomaterials, and Biologics
Speakers

Hom-Lay Wang, MSD, DDS (USA)
Professor and Director of Graduate Periodontics at the University of Michigan, School of Dentistry, Dr. Wang received his BDS from Taipei Medical College, Taipei, Taiwan, and his DDS, MSD from Case Western Reserve University, Cleveland, Ohio. He is the author or co-author of 15 book chapters/invited reviews and over 130 scientific articles. He is a Director of the American Board of Periodontology and a President-Elect of the Midwest Society of Periodontology. He is a Diplomate of the American Board of Periodontology, a Fellow and a Diplomate of the International Congress of Oral Implantologists (ICOI), a Fellow of American College of Dentists, and is appointed as a visiting professor at Taipei Medical University, Taiwan and as an international vice president as well as a member of Board Directors for the ICOI. He is on the editorial board of a number of scientific journals. He is also the recipient of following awards/honors: AADS Clinical Research Fellowship Award, Omicron Kappa Upsilon, Best Faculty Award, Distinguished Service Award and The Charles E. English Annual Award in Clinical Science and Techniques.
Topic: Esthetic Soft Tissue Management Around Dental Implants

Masao Yamazaki, DDS (Japan)
Dr. Masao Yamazaki received his DDS degree from Tokyo Dental College in 1970. He is the Founder and current Director of the Society of Japan Clinical Dentistry. Dr. Yamazaki is the author of The Esthetic Restorative Treatment-The Management For the Complex Prosthesis, Quintessence Publishing Co. Dr. Yamazaki maintains a full-time private practice in Tokyo focusing on esthetic restorative dentistry and implant dentistry.
Topic: Solution to Problems in Restorative Driven Implant Dentistry

Homayoun Zadeh, DDS, PhD (USA)
Dr. Zadeh is an Associate Professor and Chair of the Periodontology Section at the University of Southern California, School of Dentistry. He is a diplomate of the American Board of Periodontology. Dr. Zadeh received his Doctor of Dental Surgery degree from USC School of Dentistry. He has also completed advanced clinical education in Periodontology and earned a PhD degree in immunology from the University of Connecticut, Schools of Dental Medicine and Medicine. Dr. Zadeh leads a research team, funded by the National Institutes of Health, investigating the mechanisms of periodontal diseases. He has extensive publication track and serves as editorial reviewer for several scientific journals. His clinical research interests involve studies on minimally-invasive surgery and tissue engineering. Dr. Zadeh is the director of USC Periodontal and Implant Symposium. He also maintains a private practice limited to Periodontology in Southern California.
Topic: Minimally Invasive Implant Site Development
FRIDAY, JANUARY 27, 2006  GENERAL SESSION

7:00 am  Registration and Continental Breakfast

8:00 am  Opening Remarks
Homayoun Zadeh (USA)

8:20 am  Alveolar Ridge Augmentation and Implant Osseointegration: GBR, Bone Biomaterials and Biologics
Ulf Wikesjö (USA)

One objective of our laboratory is to evaluate the biologic potential of bone morphogenetic proteins (BMPs) including rhBMP-2, rhOP-1/rhBMP-7, rhGDF-5 and other candidates for alveolar ridge augmentation and implant fixation. This presentation will discuss the unique biologic potential, the clinical relevance and perspectives of BMP technologies for alveolar bone augmentation and oral implant fixation. In particular the development of a unique bone-inductive oral implant will be discussed. This presentation will also address merits and explain short-comings of current treatment protocol including bone biomaterials and guided bone regeneration (GBR). Our studies suggest that BMPs have an unparalleled potential to augment alveolar bone and support implant osseointegration and long-term functional loading. Inclusion of BMPs for alveolar augmentation and osseointegration will not only enhance predictability of existing clinical protocol but radically change current treatment paradigms. Inclusion of the bone-inductive oral implant in the treatment panorama may make “grafting” and GBR procedures obsolete.

9:10 am  Platform Switching Redefines the “Peri-Implant” Biologic Width
Renato Celletti (Italy)

Gradual “artificial” formation of a biologic width around dental implants leads to the formation of a circular crater around the neck of the implants, causing loss of crestal bone and gingival recession. Platform switching refers to the use of restorative abutments in smaller diameter than the implant platform diameter on which they are seated. This differential in diameter alters the “formation” of the biologic width around the implant, contributing to the preservation of crestal bone height. Implant designs with built-in platform switching are currently available and can be used both in standard, as well as immediate loading placement protocols. Preliminary results from the clinical use of such implants have demonstrated consistent crestal bone preservation, offering restorative alternatives in esthetic areas and redefining the biologic width surrounding implants.

Leo and Sydelle Ward Foundation Endowed Keynote Lectureship
Maps, Codes, and Meaning: Tissue Engineering in Clinical Dentistry
Harold Slavkin (USA)

Topic: Maps, Codes, and Meaning: Tissue Engineering in Clinical Dentistry

Tissue engineering is an interdisciplinary field, which applies the principles of engineering and the life sciences to the design and fabrication of biological substitutes that restore, maintain or improve tissue structure and function. The completion of the Human Genome Project in October 2004 provides a “map of the parts list of life.” Evolutionary and developmental biology (so-called “evo-devo”) provides many discoveries into the mechanisms that regulate morphogenesis, histogenesis and cytodifferentiation. Biomimetic approaches enable design and fabrication based upon bioengineering principles. These multiple areas coupled with the digital revolution are converging. This presentation will explore this intriguing nexus and will highlight applications for dentistry and medicine.

Coffee Break and Exhibits

10:30 am  Platform Switching Redefines the “Peri-Implant” Biologic Width
Renato Celletti (Italy)

Gradual “artificial” formation of a biologic width around dental implants leads to the formation of a circular crater around the neck of the implants, causing loss of crestal bone and gingival recession. Platform switching refers to the use of restorative abutments in smaller diameter than the implant platform diameter on which they are seated. This differential in diameter alters the “formation” of the biologic width around the implant, contributing to the preservation of crestal bone height. Implant designs with built-in platform switching are currently available and can be used both in standard, as well as immediate loading placement protocols. Preliminary results from the clinical use of such implants have demonstrated consistent crestal bone preservation, offering restorative alternatives in esthetic areas and redefining the biologic width surrounding implants.

ONLINE REGISTRATION AVAILABLE AT: WWW.USCDENTALCE.ORG
FOR MORE INFORMATION PLEASE VISIT: WWW.PERIOSYMPOSIUM.ORG
<table>
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<tr>
<th>Time</th>
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| 11:20 am   | **Biological and Clinical Factors for Ultimate Esthetics Around Implants**  
*Denis Tarnow (USA)*  
Ultimate esthetics requires an interdisciplinary clinical and biological approach to treating patients. This presentation will focus on fine tuning our cases so that facial tissues and inter-proximal papillae will look their best, and remain healthy for years to come. Restorative dentistry, periodontal plastic surgery, and orthodontics will all be discussed, along with the proper sequencing of these disciplines. In addition, new techniques in socket preservation will be evaluated along with new innovations in implant design as part of more advanced treatment plans. |
| 12:20 pm   | Lunch                                                                  |

### SURGICAL TRACK

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| 1:20 pm    | **Esthetic Soft Tissue Management Around Dental Implants**  
*Hom-Lay Wang (USA)*  
Achieving appropriate esthetic results for dental implants mandates careful evaluation of several anatomic factors. An “esthetic triangle” is developed to address the foundations that are essential for maintaining/creating papilla. These include adequate bone volume, proper soft tissue thickness as well as esthetic appearing restorations. This presentation will focus in discussing the following key factors that are essential for achieving esthetic implant restorations. These include: hard tissue (bone) enhancement via socket augmentation, orthodontic forced eruption, guided bone augmentation in particular “Sandwich bone augmentation” as well as cancellous bone blocks and monocortical onlay grafts; soft tissue manipulation utilizing various periodontal plastic surgery; and restorative attempt such as pink porcelain to correct esthetic challenge. |
| 2:10 pm    | **Bone Regeneration Techniques in Implantology. Horizontal and Vertical Bone Defect Regeneration Using Piezosurgery**  
*Tomaso Vercellotti (Italy)*  
This presentation emphasizes the importance of the root extraction technique for the correct positioning of the implants. The Piezosurgery root extraction technique is presented in various anatomical situations in order to promote bone regeneration. Saddle defect regeneration techniques and surgical protocols for monocortical block grafting, ridge expansion and sinus lift will be presented. |
| 3:00 pm    | Coffee Break and Exhibit                                               |
| 3:30 pm    | **Sinus Lift Surgery: Improving Success through Technique, Complication Management, Implant and Graft Material Selection**  
*Stephen Wallace (USA)*  
Implants placed in grafted sinuses can have survival rates similar to that of implants placed in the non-grafted posterior maxilla. Reported survival rates vary from 67% to 100% for implants placed in sinus grafts. We can use the existing literature to formulate an evidence-based decision making strategy that leads to improved success. Clinical guidelines will be presented that lead to successful outcomes with minimal complications. |
| 4:20 pm    | **Percussion Probe Diagnostics for Evaluation of Fixture Stability and Osseointegration**  
*Cherilyn Sheets (USA)*  
A universally applicable, easy, non-invasive quantitative method is needed for identifying initial fixture stability, assessing the appropriateness for immediate fixture loading, and monitoring the osseointegration process for very early, potentially reversible, failures. The Periometer Instrument has been used for research for the past 10 years. Results of in vitro and in vivo testing will be reviewed demonstrating the quantitative nature of the instrument in evaluating, monitoring, and therapeutically treating implant fixtures during the osseointegration process. |
Program

RESTORATIVE TRACK

1:20 pm  Treatment of the Endentulous Patient
Arnold Rosen (USA)

2:10 pm  Esthetic Restoration
Cherilyn Sheets (USA)

3:00 pm  Coffee Break and Exhibits

3:30 pm  The Natural Oral Esthetics
Michel Magne and Pascal Magne (USA)
Esthetic restorative procedures can only be mastered consistently if both clinicians and dental technologists are perfectly familiar with the basic principles of natural oral esthetics. Most important criteria have been selected and will be presented in a form of a checklist for esthetic restorative success. This overview of esthetic principles is not limited to simple tooth esthetics, but includes the entire knowledge of gingival esthetics and the final esthetic integration into the frame of the smile, face and - more generally - the individual.

5:15 pm  Cocktail Reception

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SATURDAY, JANUARY 28, 2006 GENERAL SESSION

7:30 am  Registration and Continental Breakfast

8:30 am  Periodontal Microsurgery
Allan Charles (USA)
This presentation will discuss microsurgical techniques utilized in oral plastics and periodontal cosmetic surgical treatment.

9:20 am  Minimally Invasive Implant Site Development
Homayoun Zadeh (USA)
In order to achieve optimal esthetic and functional outcomes of implant restorations, implants have to be placed in correct prosthetic position. Often, implant sites are compromised due to inflammatory and destructive diseases. This presentation will illustrate novel approaches for preservation and augmentation of implants sites. Hard and soft tissue augmentation techniques using autogenous tissues, as well as biomaterials will be discussed.

10:10 am  Coffee Break and Exhibits
10:40 am  Oral Plastic Surgery to Assist the Esthetic Restorative Outcome
Peter Nordland (USA)
Dr. Nordland will address many of the esthetic surgical procedures that can be used to assist the periodontist and restorative dentist achieve excellence and an enhanced esthetic outcome for the restorative case. Dr Nordland will detail many of the nuances necessary to achieve predictable results. Detailed steps for procedures such as esthetic crown lengthening, root coverage, ridge augmentation and esthetic implant placement will be covered.

11:30 am  The Regeneration of the Interdental Papilla
PD Miller (USA)
The lost interdental papilla presents an esthetic challenge if regeneration of the papilla is going to be attempted. Before deciding which of two treatment modalities should be selected, there must be a thorough understanding of the dimensions of the embrasure space as well as understanding the shape and anatomy of the adjacent teeth. This presentation will highlight the two modalities. One involves orthodontics and the other requires periodontal plastic surgery.

12:20 pm  Lunch

1:30 pm  Solutions to Problems in Restoratively-Driven Implant Dentistry
Masao Yamazaki (Japan)
This presentation will discuss considerations for establishing proper occlusion for implant restorations. The management of complex implant cases will be discussed. Techniques for achieving highest level of esthetic excellence, by establishing 3-Dimensional soft tissue morphology surrounding implants will be illustrated.

2:20 pm  The Procedure for an Immediate Load CAD/CAM Guided Prosthesis: A Clinical Report
Christopher Marchack (USA)
Along with the many advancements in implant dentistry; CT scanning, computer-assisted treatment planning software, and stereo-lithography surgical templates, a new treatment modality has been developed for immediate loading of dental implants utilizing a prefabricated restorative prosthesis. This presentation will describe and present a new technique utilizing a CAD/CAM surgical design software program, a flapless surgical procedure, and a prefabricated fixed complete denture for an immediate load restoration.

3:10 pm  Peri-Implant Bone in Different Loading Conditions: Collagen Fibers Organization, Mineral Density and Osteocytes and Microvasculature Network
Adriano Piattelli (Italy)
The main factor in determining the mechanical properties of bone is the collagen configuration. Collagen orientation in the bone matrix, and the orientation of mineral crystallites reflects the mechanical microenvironment at the time of bone formation. We have investigated human bone around immediately-loaded and unloaded titanium dental implants. We have demonstrated that in the bone around loaded dental implants, transverse collagen fibers are more represented, while, in the unloaded implants, collagen fibers run more longitudinally. The load seemed to determine the collagen fibers orientation. Small adjustments in mineral content can significantly affect the mechanical properties of bone. Bone around immediately-loaded implants show a high degree of osseointegration, a peri-implant bone matrix rich of transverse collagen fibers and a mineralization density significantly higher than that of bone distant from the implant surface. We have investigated the three-dimensional vascular architecture of the peri-implant bone after loading. After one year of loading, a very intricate blood vascular network is seen around implants.

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SATURDAY, JANUARY 28, 2006 DENTAL HYGENE FORUM

7:30 am  Registration and Continental Breakfast

8:30 am  Opening Remarks
          Moderator (USA)

8:40 am  Women's Health: Does Gender Matter?
          Mahvash Navazesh (USA)
          Dental caries and periodontal diseases are the most common oral infections in mankind. Are women more
          at risk for these conditions than men? Does sex or gender matter? This presentation examines the
          common systemic and oral health challenges faced by women throughout life. The systemic complications
          of oral diseases and oral manifestations of systemic diseases will be discussed, and risk assessment and
          preventive modalities and treatment modifications will be examined.

9:30 am  Osteoporosis and Periodontal Disease
          Joan Otomo-Corgel (USA)
          This presentation will explore the relationship between periodontal disease and osteoporosis. The
          correlation between Systemic bone mineral density (BMD) and oral BMD will be presented. The available
          therapeutic options for osteoporosis and their effect on the periodontium will be discussed.

10:20 am Coffee Break and Exhibits

10:50 am Non-Surgical Periodontal Therapy
          David Paquette (USA)
          This presentation will trace the rationale for the use of the adjunctive locally administered antimicrobials
          in patients with moderate to advanced chronic periodontitis. The evidence and clinical relevance of local
          antimicrobials such as minocycline microspheres will be extensively discussed. Following this
          presentation, participants will be able to select appropriate patient cases and integrate locally delivered
          antimicrobials in their management of chronic periodontitis in clinical practice.

12:20 pm Lunch

1:30 pm  Fit to Sit: Strategies to Maximize Function and Minimize Occupational Pain
          Jacquelyn Dylla (USA)
          Fit to Sit is a new model for sitting exploring fitness and the biomechanics of the spine relative to sitting.
          This presentation is designed to educated dental professionals about biomechanically efficient sitting
          positions and movements that may assist with minimizing pain and/or injury. An evidence-based
          discussion of various pathologies associated with static positioning and poor sitting posture will be
          presented. Through pictures and demonstrations, proper biomechanical alignment for postural control
          will be outlined to assist the dental professional in minimizing stress to pain sensitive tissue.

2:45 pm  Coffee Break and Exhibits

3:15 pm - 4:45 pm Mechanical Loading Implications of Control Strategies Used by Hygienists During Periodontal
          Tasks
          Jill McNitt-Gray (USA) and Witaya Mathiyakom (USA)
          Hand intensive repetitive motions involving generation of a large reaction force at the hand/tool interface
          have been associated with upper extremity cumulative trauma disorders costing employers and workers
          billions of dollars annually. Determination of a causal relationship between load and injury, however, has
          been limited by the inability to determine the internal load experienced by individuals during task
          performance. Left untreated mechanical overload of one or more components of the upper extremity, neck,
          and back may lead to high intramuscular pressures leading to nerve dysfunction (e.g. Carpal Tunnel
          Syndrome, Cervical Spondylosis) and/or pain-induced muscular contro patterns and postures (Myofascial
          Trigger Pain Syndrome). We will discuss how different techniques distribute mechanical load imposed the
          wrist, elbow, and shoulder and affect control of the reaction force applied at the hand/tool/tooth interface.
**Program**

**THURSDAY, JANUARY 26, 2006  HANDS-ON WORKSHOP #1**

8:00 am - 5:00 pm  
**Sinus Augmentation**  
*Stephen Wallace (USA)*  
Implants placed in grafted sinuses can have survival rates similar to that of implants placed in the non-grafted posterior maxilla. Reported survival rates vary from 67% to 100% for implants placed in sinus grafts. We can use the existing literature to formulate an evidence-based decision making strategy that leads to improved success. Clinical guidelines will be presented that lead to successful outcomes with minimal complications. Detailed clinical procedures will be discussed and both the lateral window and crestal procedures will be demonstrated in a hands-on clinic.

**SUNDAY, JANUARY 29, 2006  HANDS-ON WORKSHOP #3**

8:00 am - 5:00 pm  
**Bone Regeneration Techniques in Implantology. Horizontal and Vertical Bone Defect Regeneration Using Piezosurgery**  
*Tomaso Vercellotti (Italy)*  
This all-day workshop will combine presentation of theoretical concepts, clinical cases, as well as hands-on demonstration. The following areas will be covered:
- Characteristics of the piezoelectric cut
- Surgical techniques will be reviewed
  - Osteoplastic techniques
  - Bone chip harvesting technique
  - Sinus lift
  - Ridge expansion
- Clinical applications will be demonstrated in:
  - Implantology
  - Periodontology
General Information

EVENT LOCATION

Marriott Los Angeles Airport  
5855 W. Century Blvd., Los Angeles, California 90045  
• Five minutes from LAX and the 405 and 105 freeways. One mile west of the 405.  
• Ten minutes from the Pacific Ocean, 25 minutes from downtown Los Angeles.  
Telephone: 310-641-5700  
Reservation: 800-228-9290  
Website: www.marriott.com  
• Book your rooms early! Special rate $109 for Single and Double before January 5, 2006. Please call LAX Marriott at 1-800-228-9290 and ask for USC Annual Dental Group Special Rate with reservation code USC0. Online Reservation at www.marriott.com with reservation code USCUSCA.

QUESTIONS?

Please contact USC School of Dentistry Office of Continuing Education by one of the following methods:  
Mail: 925 W. 34th St. Room 201J., Los Angeles, CA 90089  
Telephone: 213-821-2127  
Fax: 213-740-3973  
Email: cedental@usc.edu  
Website: www.uscdentalce.org

ONLINE REGISTRATION AVAILABLE AT: WWW.USCDENTALCE.ORG  
FOR MORE INFORMATION PLEASE VISIT: WWW.PERIOSYMPOSIUM.ORG
EXCELLENCE IN PORCELAIN VENEERS: A COMPREHENSIVE REVIEW OF THE LATEST MATERIALS AND TECHNIQUES
Friday, January 20, 2006

EMERGING DISEASES, INFECTION CONTROL AND CALIFORNIA DENTAL PRACTICE ACT
Saturday, February 4, 2006

COMMON ORAL LESIONS WORKSHOP 1: SOFT TISSUE DISEASE
Saturday, February 11, 2006

CHRONIC OROFACIAL, ORODENTAL AND HEADACHE PAINS FOR THE DENTIST
Friday - Saturday, February 24 - 25, 2006

ORAL SURGERY FOR THE GENERAL PRACTITIONER
Sunday, March 4, 2006

LEGAL ASPECTS OF DENTISTRY: HOW TO AVOID MALPRACTICE
Saturday, March 4, 2006

COSMETIC IMAGING AND COMPUTER ASSISTED DESIGN USED TO ENHANCE ESTHETIC CASE PRESENTATIONS AND TREATMENT PLANS
Saturday, March 18, 2006

DIGITAL PHOTOGRAPHY IN DENTISTRY
Friday - Saturday, March 24 - 25, 2006

UPDATE IN ESTHETIC RESTORATIVE DENTISTRY
Friday, March 31, 2006

DENTAL DETECTIVES: FORENSICS AND THE DENTAL TEAM
Saturday, April 1, 2006

COMMON ORAL LESIONS WORKSHOP 2: UPDATE IN EARLY ORAL CANCER AND PRECANCER DETECTION
Saturday, April 1, 2006

OBSTRUCTIVE SLEEP APNEA, SNORING AND DENTAL ADVANCEMENT
Friday - Saturday, April 7 - 8, 2006

IMPLANT THERAPY IN THE ESTHETIC ZONE
Friday - Sunday, April 21 - 23, 2006

MAKING SENSE OUT OF REMOVABLE PARTIAL DENTURE DESIGN
Saturday, April 22, 2006

USC ADVANCED ESTHETIC DENTISTRY CONTINUUM
Friday - Sunday, May 5 - 7, June 30 - July 2, July 21 - 23, 2006

IMPLANT THERAPY IN COMPROMISED SITES
Friday - Sunday, June 2 - 4, 2006
# Registration Form

**The 31st Annual USC Periodontal & Implant Symposium**  
**January 26 - 29, 2006 • Los Angeles Airport Marriott • 5855 West Century Blvd. Los Angeles, CA 90045**

First Name: ___________________________  
Last Name: ___________________________

Title: ___________________________  
Specialty: ___________________________

Address: ___________________________  
City: ___________________________  
State: ___________________________  
Zip: ___________________________

Business Phone: ___________________________  
Additional Phone (Optional): ___________________________

Email: ___________________________  
Fax: ___________________________

Additional Enrollees: ___________________________

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<th>COURSE</th>
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<th>TUITION BETWEEN</th>
<th>TUITION AFTER</th>
<th>AMOUNT ENCLOSED</th>
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| General Sessions (including Dental Hygiene Forum): Friday - Saturday, January 27 - 28, 2006  
14 CE Units | December 9, 2005  
Dentist: $450  
Auxiliary: $295  
Faculty: $295  
Student: $125 | December 9, 2005 & January 9, 2006  
Dentist: $495  
Auxiliary: $325  
Faculty: $325  
Student: $145 | January 9, 2006  
Dentist: $575  
Auxiliary: $395  
Faculty: $395  
Student: $195 | |
| Dental Hygiene Forum: Saturday, January 28, 2006  
7 CE Units | December 9, 2005  
Dentist and Auxiliary: $135  
Faculty and Student: $95 | December 9, 2005 & January 9, 2006  
Dentist and Auxiliary: $155  
Faculty and Student: $115 | January 9, 2006  
Dentist and Auxiliary: $185  
Faculty and Student: $135 | |
| Hands-on Workshop 1: Maxillary Sinus Augmentation: Thursday, January 26, 2006  
7 CE Units | Tuition: $695 | Tuition: $695 | Tuition: $695 | |
| Hands-on Workshop 2: Periodontal Microsurgery: Saturday, January 28, 2006  
6 CE Units | Tuition: $695 | Tuition: $695 | Tuition: $695 | |
| Hands-on Workshop 3: Implant Site Development with Piosurgery: Sunday, January 29, 2006  
7 CE Units | Tuition: $495 | Tuition: $495 | Tuition: $495 | |

**TOTAL TUITION FEES:**

☐ Check Enclosed (Payable to USC School of Dentistry)  
☐ Visa  
☐ Mastercard  
Card Number: ___________________________

Expiration Date: ___________________________  
Signature: ___________________________

Please mail or fax your registration form to:  
USC School of Dentistry, Office of Continuing Education  
925 W. 34th Street, Room 201J  
Los Angeles, CA 90089-0641  
Phone: 213.821.2127  
Fax: 213.740.3973  
Email: cedental@usc.edu  
**[Online Registration Available at www.uscdentalce.org](http://www.uscdentalce.org)**  
*If you need additional registration form, please xerox this form

Refunds are granted only if a written cancellation notification is received at least 21 days before the course. 50% of the tuition fee will be refunded if cancellation occurs within 14 days before this course. No refund is granted afterwards. A $50 fee is withheld for processing. For additional registrations, xerox this form and send.
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