



NORTHEASTERN SOCIETY OF PERIODONTISTS BULLETIN

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SPRING 2009

SPRING MEETING • MAY 1, 2009

New Treatment Modalities for Interdisciplinary Dentistry: The Periodontal/Orthodontic Connection

New York Marriott Marquis Hotel • 1535 Broadway, New York, NY 10036

As the practice of periodontics is constantly evolving we need to continue to explore new avenues for interaction with our dental specialty colleagues. With that goal in mind, we have put together this symposium and our desire is that each attendee will gain insights that will allow you to enhance your clinical practice and outreach to orthodontists.

This year's NESP program chairman, Dr. Wayne Aldredge, has put together an impressive list of speakers who will inspire and enlighten you on the subjects of their expertise. The theme for this meeting is "*New Treatment Modalities for Interdisciplinary Dentistry: The Periodontal/Orthodontic Connection.*" The day will start with registration and exhibits between 8:00 – 9:00 a.m. At 9:00 a.m., the first speaker, Dr. Frank Celenza, will present *Periodontic and Orthodontic Interactions – Seeking Interdisciplinary Excellence*, followed by Dr. Mark Hochman who will present *Orthodontic Vertical (Forced) Eruption to*

(CONTINUED ON PAGE 2)

8:00–8:30 A.M.	NESP Board of Governors' Meeting
8:00–9:00 A.M.	Registration and Exhibits
Lectures Begin	
9:00–9:45 A.M.	Dr. Frank Celenza <i>Periodontic and Orthodontic Interactions – Seeking Interdisciplinary Excellence</i>
9:45–10:30 A.M.	Dr. Mark Hochman <i>Orthodontic Vertical (Forced) Eruption to Achieve Aesthetic Implant Outcomes</i>
10:30–11:00 A.M.	Coffee Break (Visit with our Exhibitors)
11:00 A.M.–12:00 P.M.	Dr. John Bruno <i>Aesthetic Procedures to Enhance Orthodontic Therapy</i>
12:00–1:30 P.M.	Lunch Luncheon for Learning
1:30–2:45 P.M.	Dr. Robert Vanarsdall <i>Temporary Anchorage Devices</i>
2:45–4:00 P.M.	Dr. Thomas Wilcko <i>The Periodontally Accelerated Osteogenic Orthodontic (PAOO) Treatment – The Periodontal Enhancement of Surgically Facilitated Rapid Tooth Movement</i>



Frank Celenza



Mark Hochman



John Bruno



Robert Vanarsdall



Thomas Wilcko

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CONTINUING EDUCATION RECOGNITION PROGRAM

PROVIDER CODE 05397-58

The NESP is a recognized ADA CERP provider.

Attendance at the meeting is open to all dues-paying members. Guests have to pay the required fee as stated in the program. No refunds are allowed. There is no cancellation policy for dues-paying members. Attendees will receive 7 CE credits for the spring 2009 meeting lectures.

PROGRAM DESCRIPTION (CONTINUED FROM PAGE 1)

Achieve Aesthetic Implant Outcomes. This will be followed by a coffee break from 10:30 to 11:00 a.m. Please remember to visit the exhibitors at this time. Following the break, Dr. John Bruno will present *Aesthetic Procedures to Enhance Orthodontic Therapy.* Lunch will be served at 12:00 noon, followed by Dr. Robert Vanarsdall's presentation at 1:30 p.m., titled *Temporary Anchorage Devices.* At 2:45 p.m. Dr. Thomas Wilcko will present *The Periodontally Accelerated Osteogenic Orthodontic (PAOO) Treatment – The Periodontal Enhancement of Surgically Facilitated Rapid Tooth Movement.*

FRANK CELENZA, D.D.S., will present *Periodontic and Orthodontic Interactions – Seeking Interdisciplinary Excellence.* The integration of periodontics with orthodontics might seem perplexing at first. Whereas the specialty of orthodontics historically has been associated with a younger patient population, that of periodontics is probably associated with an older patient type. Why then, would one choose to practice the two together? Are there interactions that we, as clinicians can harness for our patients?

This presentation will outline and delineate what many of these combined-treatment modalities are, and how they fit into interdisciplinary treatment planning. In many of these examples, the prosthetic and aesthetic benefits will be illustrated. Further, the development and evolution of these combined specialties through the eyes and experiences of the presenter will be explored, with a perspective towards future developments that are of interest.

Dr. Celenza is uniquely certified in both orthodontics and periodontics. He received his periodontal certificate from the University of Pennsylvania in 1986 and his orthodontic certificate from New York University in 1988. He has authored numerous publications in the dental literature, has been involved in post-graduate teaching for over 15 years, and maintains a private practice in Manhattan.

Dr. Celenza comes from a long line of dentists; both his father and brother are prosthodontists as well.

LEARNING OBJECTIVES:

- Gaining an appreciation for the physiology of tooth movement.
- Gaining an appreciation for the periodontal benefits of tooth position.
- Gaining an appreciation for the periodontal management of orthodontic patients.
- Gaining an appreciation for the implementation of adjunctive orthodontic modalities for prosthetic benefit.

MARK N. HOCHMAN, D.D.S., will present *Orthodontic Vertical (Forced) Eruption to Achieve Aesthetic Implant Outcomes.* Orthodontic vertical (forced) eruption procedures remain one of the most predictable options for regenerating and improving osseous and soft tissue deficiencies in the aesthetic zone. Utilizing this modality prior to implant placement can lead to highly aesthetic results. This presentation will focus on reviewing the basic biologic principles that inform our understanding of how and why orthodontic tooth movement regenerates bone and soft tissue structures. The presentation will review diagnostic parameters that are critical to the success of this type of orthodontic intervention. A contemporary orthodontic approach will be presented, including an in-depth discussion of the biomechanical principles required for a successful vertical eruption. Specific techniques and patient treatments will be reviewed to demonstrate how final treatment outcomes are successfully managed with an interdisciplinary approach of orthodontic-implant-prosthetic treatment.

Dr. Hochman is a multi-trained specialist with postgraduate certification in the disciplines of periodontics and orthodontics. The focus of his professional career has been on the integration of these two specialties during treatment of the complex interdisciplinary dental patient. Dr. Hochman maintains a clinical practice within the New York Center for Specialized Dentistry. There he provides services in orthodontics and periodontics. Currently, he is a clinical associate professor at NYU College of Dentistry with appointments in the departments of orthodontics and periodontics. He has contributed to the dental literature on a variety of topics.

LEARNING OBJECTIVES:

Upon completion participants should be able to:

- Discuss the basic biologic principles at work in the regeneration of osseous and soft tissues structures when using orthodontic treatment.
- Describe diagnostic parameters that are important for predicting treatment outcomes when using orthodontic procedures for osseous and soft tissue regeneration.
- Describe the orthodontic biomechanical principles that are critical to understand in order to properly perform controlled tooth movement with the objective of regenerating osseous and soft tissue structures prior to the placement of dental implants.

PROGRAM DESCRIPTION (CONTINUED FROM PAGE 2)

JOHN F. BRUNO, D.D.S., M.S., will present *Periodontal Plastic Surgery Aesthetic Procedures to Enhance Orthodontic Therapy*. This presentation will demonstrate an aesthetic subepithelial connective graft procedure performed prior to or following orthodontic therapy. The procedure will also be demonstrated to correct a defect following an interdental osteotomy. Crown lengthening in conjunction with orthodontic therapy and following orthodontic extrusion will be shown. An anterior maxillary frenectomy following orthodontic therapy will be presented.

The dental profession in general, and periodontal specialists in particular, have not educated or informed the orthodontist and/or the restorative dentist – and in turn their patients – about the availability of these procedures.

Dr. Bruno completed his dental and periodontal training at Georgetown University. He is a clinical associate professor of periodontics at Tufts University School of Dental Medicine. Dr. Bruno has been active in organized dentistry with many honors and elected positions, including being a member of the Board of Directors and the Board of Trustees of the American Academy of Periodontology. He is the past president of the Northern Virginia Dental Society, Greater Washington Society of Periodontology and Fairfax County Dental Society. Dr. Bruno has published extensively on the subject of connective tissue grafts in various journals, including the *International Journal of Periodontics and Restorative Dentistry*, and has co-authored a chapter in the book *Periodontal Therapy*. Dr. Bruno is a Fellow of the American College of Dentists with a private practice in Springfield, Virginia.

LEARNING OBJECTIVES:

- To determine where an aesthetic subepithelial connective graft procedure should be performed prior to or following orthodontic therapy
- To determine where crown lengthening and an anterior maxillary frenectomy can enhance orthodontic therapy
- To encourage the periodontal specialist to educate or inform the orthodontist and/or the restorative dentist – and in turn their patients – about the availability of these procedures

ROBERT VANARSDALL, D.D.S., will present *Temporary Anchorage Devices*. Dr. Vanarsdall will discuss the use of orthodontic mini-screws as temporary anchorage, a new treatment modality that will enable

many orthodontic problems to be corrected that in the past could only be accomplished with orthognathic surgery. Adjunctive orthodontic procedures with mini-screws (example: molar uprighting, regaining space, site development, etc.) can be accomplished with fewer orthodontic brackets (less anchoring teeth) and other orthodontic appliances. Every dentist needs to understand the potential of these temporary devices to provide highest quality of care for patients and to participate in improved interdisciplinary treatment.

Dr. Vanarsdall is professor and chairman of the Department of Orthodontics at the University of Pennsylvania School of Dental Medicine, where he has been teaching full-time for over 30 years. He received his dental degree from the Medical College of Virginia and is board certified in both orthodontics and periodontics. Dr. Vanarsdall served as chairman of the department of periodontics, department of pediatric dentistry and has directed orthodontics at Penn since February 1981. In addition to his teaching commitment, he maintains a private practice. For 17 years he served as editor-in-chief for the *International Journal of Adult Orthodontics and Orthognathic Surgery* in addition to other editorial board commitments; he has co-authored with Dr. Tom Graber the text *Orthodontics: Current Principles and Techniques*, 3rd, 4th and 5th edition as well as *Applications of Orthodontic Mini Implants*, with JS Lee, JK Kim, Y-C Park, Quintessence Publishing, 2006.

He has lectured extensively in Europe, Africa, South America, Asia and has been honored to present many special lectures, such as the Merston (1992) and the Salzman (2000) for the American Association of Orthodontics.

Dr. Vanarsdall has served as a program chairman for AAO Annual Meetings (1994, 2002) and on the Council on Scientific Affairs, as well as its chairman. He is president-elect of the Angle East Component of the E.H. Angle Society of Orthodontics.

Dr. Vanarsdall has been elected to Fellowship in the American College of Dentist, International College of Dentist, the Philadelphia College of Physicians and the National Academies of Practice. He has also been named visiting professor at the University of Sydney and University of Adelaide.

LEARNING OBJECTIVES:

- Introduce and familiarize each attendee with new technology for orthodontic anchorage.
- Review terminology and rationale for using mini screws for different types of tooth movement.
- Appreciate indications and contraindications for temporary anchorage devices.

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AAP Trustee Report

The new year has presented itself with many challenges to the profession of dentistry and specifically to our specialty – periodontics. Hopefully, the following ideas will have a positive impact on your practices.

We ask that every NESP member takes some time to “surf” the Academy’s website (www.perio.org). There is a tremendous amount of information to help improve our practices and allow for patients to find us. You must sign up for the Patient Referral Service at perio.org. This will allow you to be listed when the general public conducts a “find a periodontist” search on perio.org. Remember that the Academy’s website gets over 1 million hits per year.

From October 2008 through January 2009, the Academy’s public relations efforts resulted in placements in a total of 45 newspapers, broadcast outlets, consumer magazines, web sites, and dental and health trade publications; and reached a total of approximately 290 million people. Every press release is ended by informing the reader to visit www.perio.org for additional information, another excellent reason to list your practice at the Academy’s website.

There are also informed consent and sample periodontal office forms available, in a downloadable format, for simple integration into your practice.

The joint periodontal/orthodontic conference was a big success. It has been a long time since a meeting had so much collaborative energy. We urge you to use this conference, and this environment of heightened awareness, as an opportunity to contact all of the orthodontists in your area. Given the increase in adults seeking

orthodontic treatment, periodontal status is more important than ever, and not every orthodontist may be aware of the role a periodontist can play in treatment success. Don’t forget to discuss the soft tissue procedures, on which we are experts (bring pictures!).

Finally, keep your eyes open for publication of the joint *Journal of Periodontology* and *American Journal of Cardiology* consensus paper. The JOP-AJC consensus paper will address the practical clinical implications of the periodontitis/cardiovascular disease linkages. The paper will include a recommendation to cardiologists that their patients with cardiovascular disease should have a dental evaluation that focuses on the periodontal status of the patient. If the cardiologist has evidence of periodontal disease, the patient should be treated to reduce the inflammation and periodontal load. There will be a recommendation that patients with some level of periodontal disease (moderate to severe periodontitis) should be evaluated for cardiovascular risk factors. The article will detail what those evaluations should include.

The future for periodontics is bright. We must continue to stay positive, capitalize on opportunities and collaborate with all dental practitioners. Please do not hesitate to contact us with any questions.

Sincerely,

Dr. Stuart Froum
Dr. Wayne A. Aldredge

New Members

The NESP welcomes the following new members:

Dr. Michael Cabassa, Mountain Lakes, New Jersey

Dr. Manjiri Mathur, West Orange, New Jersey

Dr. Maxim Podolsky, Rego Park, New York

Dr. John Rose, Seldin, New York

Dr. Debra Salman, Howell, New Jersey

Dr. Andrew Sullivan, Bayonne, New Jersey

Dr. Thomas Zahavi, Rochester, New York

Dr. Michael Zidile, Brooklyn, New York



MARK YOUR CALENDAR

NESP Meeting Dates

OCTOBER 16, 2009
(50th Anniversary Gala)

APRIL 16, 2010

OCTOBER 1, 2010

President's Message

Congratulations to the organization on the celebration this year for the 50th Anniversary!!! I am proud to be able to serve as the president with such a great team of individuals. This May meeting promises to be an exciting day, with world-renowned speakers emphasizing the perio/ortho connection. Dr Wayne Aldredge has worked diligently to bring a great program to the organization. As members, you should invite some key referring doctors to share in the educational experience and also have some fun.

Just last night I had the opportunity to meet with fellow periodontists, and one common thread in the conversation was how we as periodontists are now extracting more teeth in our clinical practices. May I bring a caution to comment – there is a noted increase in the use of dental implant therapy and is that coincidental in underestimating the long-term prognosis of treating teeth with a compromised periodontium? Or to put it more bluntly, has dental implant treatment by periodontists and our restorative colleagues replaced our practice of regenerating the periodontal tissues around teeth? And if the answer is yes, then whom are we serving?

Since becoming a periodontist over 20 years ago, there has been a wealth of literature and well-documented research stemming from the classic “gold standard” of periodontal regeneration utilizing DFDBA. This has led to studies on GTR and, more recently, on the use of biological mediators. We as periodontists have been trained and educated to perform these treatment modalities predictably and should continue to strive to

save teeth. Teeth with a less than favorable prognosis can be saved with regeneration of the periodontium, the best treatment available for our patients. Improving the prognosis for our patients' teeth still needs to be our primary consideration and the “front line” of defense in the treatment of our patients and in prognosticating treatment success for our restorative colleagues.

Although any colleague can place a “screw in the bone,” the complete periodontal-prosthetic treatment plan and the patient's periodontal health need to be attained prior to the placement of any dental implant. I find that the main problem overlooked by clinicians is the establishment of a proper occlusal scheme. Once integration has occurred, occlusion is the predominant factor that may lead to a possible de-integration. Paying attention to an overall plan for the betterment of our patient population remains key in their success.

These principles that have been ingrained and taught to us still need to be the cornerstone of our periodontal therapy. Let us not give up on the periodontium and the goal of reestablishing periodontal health for the dentition. If we do, are we best serving the needs of the patient, or the needs of doctor? ■



Gail Childers

Dr. Gail Childers
President

PROGRAM DESCRIPTION (CONTINUED FROM PAGE 5)

THOMAS WILCKO, D.M.D., will present *The Periodontally Accelerated Osteogenic Orthodontic (PAOO) Treatment – The Periodontal Enhancement of Surgically Facilitated Rapid Tooth Movement*. The PAOO treatment provides for an optimal response to applied forces without increasing the magnitude of these forces. This provides for a dramatic improvement in orthodontic efficiency, with most cases being completed in one-third to one-quarter the time required for traditional orthodontic treatment alone. These shortened treatment times provide an attractive alternative for many patients, but especially adults. The convenience of these shortened treatment times is, however, far outweighed by the ability to move the teeth an estimated 2-fold to 3-fold greater distance, and provide for a greater alveolar volume with a more structurally intact periodontium for increased post-treat-

ment stability and reduced side effects, such as apical root resorption.

The delivery of this multidisciplinary treatment is done in an in-office setting, and in selected situations this treatment can be substituted for orthognathic surgery – skeletal class IIIs being a notable exception. Subtle alveolar enhancements can be accomplished, such as improving a weak chin profile. The PAOO treatment has been performed on healthy patients ranging in age from 11 to 78, attesting to its versatility. Many orthodontic practices are now 20% to 30% adults and the PAOO treatment helps overcome one of the biggest obstacles for many adults by dramatically reducing overall treatment times. The PAOO treatment can be a win-win situation for the orthodontist, periodontist, and patient, and attract a new patient population.

Dr. Wilcko received his certificate in periodontology

Message from the Editor

I am deeply humbled and extremely thankful for the opportunity to serve our organization as the incoming *Bulletin* editor. I would like to thank our Immediate Past-President, Dr. Patrice M. Buonocore, for her continual encouragement and support. When I met her 5 years ago as a fellow colleague at NYU, she planted a seed and encouraged me to become involved with the NESP. It is now the year 2009 and here I am ready to embark on an exciting journey.

For my first editorial, I would like to discuss two areas that should be important to all of us: teaching and finances. During the lunch session of our Fall 2008 meeting, our president, Dr. Childers, and Dr. Buonocore touched upon the importance of teaching. In fact, if I recall correctly, the majority of the room stood up proudly when asked if he/she was involved in some type of academic setting. As a full-time junior faculty member, I was astonished to see how many of our members were involved in periodontal education. It is certainly clear to me that the future leaders of our specialty lie within the walls of our organization.

According to the American Dental Education Association, "the prospect that dental schools will face a critical shortage of clinical faculty in the future is real." In fact, we are going to see a substantial drop in the number of periodontal educators nationwide in the next decade. Organizations such as the American Academy of Periodontology have instituted programs to assist younger practitioners to become involved in academic dentistry. If dental schools and residency programs lack clinical faculty, who will train the future generation of general dentists on the importance of the periodon-

tium? Who will be your source of referrals and who will be your future associates?

Secondly, during this economic crisis, I would be remiss if I did not mention that this financial downturn has everyone a little on edge. However, in a recent article from *Time* magazine entitled "Dentists: Smiling in the Face of Recession," it was encouraging to read that the author felt that dentists were recession proof. It may have been an overly optimistic piece but as an optimist myself, I truly believe times will get better. In the meantime, make the most of your time and invest for the future. This may mean taking a CE course you had been putting off, teaching a half-day a week or becoming involved in organized dentistry.

In closing, I want to thank Dr. Leslie Taynor for her commitment and diligence. Her years of service as *Bulletin* editor is greatly appreciated and she has certainly raised the bar. She has facilitated my transition into the position and has guided me every step of the way, as a great teacher does. Thank you Leslie for your past mentorship and continual support.

I look forward to the challenges ahead and hope to serve this organization and its members well. If you would like to contribute a guest editorial or have suggestions on how to improve our *Bulletin*, please do not hesitate to contact me. Best wishes for a happy, healthy and prosperous 2009. ■



Wayne Kye

Periodontal Clinical Investigations (PCI) is available online through the NESP website.

Marriott Vacation Winner

Dr. NEIL BRYSON
 Colonia, New Jersey
Congratulations!

Visit us at www.nesp.org

PROGRAM (CONTINUED FROM PAGE 6)

from the Harvard School of Dental Medicine in 1975. He is in the private practice of periodontics in Erie, Pennsylvania, and his academic affiliations are: clinical associate professor of periodontics, Case Western University, Cleveland, Ohio; adjunct clinical assistant professor of periodontology and oral biology, Boston University; Henry M. Goldman School of Dental Medicine, Boston; and consultant, Naval Dental Center, Bethesda, Maryland.

Dr. Wilcko's research endeavors include: free radical stability, pyrophosphate retardation of crystal formation, reduced porcelain shrinkage, ultrasound reflection and prostaglandins. Over the past 15 years, Dr. Wilcko and his brother, Dr. William Wilcko, have developed and perfected the Periodontally "Accelerated Osteogenic Orthodontics™" technique. Dr. Wilcko has published and lectured extensively on his related areas of research.

LEARNING OBJECTIVES:

- To provide an understanding of the bone physiology that can be stimulated to provide for a 2-fold to 3-fold increase in the distance that the teeth can be moved in one-third to one-quarter the time required for traditional orthodontics with decreased apical root resorption.
- To explain some of the different treatment parameters that need to be taken into consideration, especially as concerns reducing the need for bicuspid extractions.
- To explain the various osseous and gingival improvements that can be attained with the PAOO surgery.
- To explain the significance of tissue memory loss, and an increased alveolar volume in relationship to increased long-term stability.

Disclaimer:

This program is offered as an educational course only. The opinions and techniques offered today should be combined with additional educational experiences before considering them in your practice. Attendance at this program does not reflect specialty status, advanced training, specific skills or educational status.

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ACKNOWLEDGMENTS

The NESP wishes to thank the sponsors of the spring meeting for their financial support. All members are urged to visit the exhibit booths and to acquire the latest information on periodontal products.

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