

## CURRICULUM VITAE

### **DAVID MCKENDREE SARVER, D.M.D., M.S.**

David 2713 Watkins Glenn Drive  
Birmingham, Alabama 35216  
Telephone (205) 822-5227

Date of Birth: August 1, 1951  
Place of Birth: Auburn, Alabama  
Marital Status: Married  
Wife: Valerie Tonetti Sarver  
Children: David Brasfield Sarver, Age 39  
Leigh Brannon Sarver, Age 35  
Suzanne McKendree Sarver, Age 32

### EDUCATION

1969-1973 Auburn University, B.S. Chemistry  
1973-1977 University of Alabama, School of Dentistry, D.M.D.  
1977-1979 University of North Carolina, Certificate and M.S. in Orthodontics

### ACADEMIC HONORS AND ACTIVITIES

Squires sophomore academic honorary, Auburn University, 1970.

Representative to Southeast Regional meeting American Association of Dental Schools, Memphis, Tennessee, 1976.

Representative to Southeast Regional meeting American Association of Dental Schools, Birmingham, Alabama, 1977.

President, Freshman class, the University of Alabama School of Dentistry, 1973-74.

Student representative to the Student Government Association-Junior class, the University of Alabama School of Dentistry, 1975-76.

President, Student Government Association, the University of Alabama School of Dentistry, 1976-77

Membership, Omicron Delta Kappa, UAB circle, 1977.

Omicron Kappa Upsilon Dental Honorary, University of Alabama School of Dentistry, 1977.

Selected by Omicron Delta Kappa (University of Alabama in Birmingham) as the Outstanding Professional Student in the University of Alabama Medical Center as well as the Outstanding Student in the School of Dentistry, 1977.

University of North Carolina Orthodontic Alumni Research Award, 1979.

Honorable mention - Harry M. Sicher award for first time research paper, American Association of Orthodontists, 1980.

Diplomate- American Board of Orthodontics received 1988.

Recertified-American Board of Orthodontics 2003.

Member of the Midwestern component of the Edward H. Angle Society of Orthodontists.

Member of the Study Committee appointed 1992.

Fellow- International College of Dentists, inducted November 1993.

Fellow- American College of Dentists, inducted September 27, 1996.

The **Salzmann Lecture**-The annual meeting of the American Association of Orthodontists, Toronto, Canada

The B.F. and Helen Dewel Award, best clinical article in the American Journal of Orthodontics and Dentofacial Orthopedics for 2003. Awarded at the American Association of Orthodontists meeting Orlando, Florida, April 30, 2004.

The 46<sup>th</sup> annual **Mershon Lecture**- The 106<sup>th</sup> Annual Session of the American Association of Orthodontists meeting, Las Vegas, Nevada; May 6, 2006

The annual **Edward H. Angle Lecture**-The 114<sup>th</sup> Annual Session of the American Association of Orthodontists, Philadelphia, PA, May 4, 2013.

Dentist of the Year-The Birmingham District Dental Society, Birmingham, Alabama; December 1, 2009.

Fellow-American Academy of Esthetic Dentistry, inducted August 2012.

Lifetime Achievement Award- Carestream Dental Corp. March 14, 2015.

## **COMMUNITY HONORS**

Distinguished Citizen of the Year-Vestavia Hills, Birmingham, Alabama; March 4, 2010.

## **HONORARY MEMBERSHIPS**

Lebanese Orthodontic Society  
Columbia Orthodontic Society  
New-Conn Study Club

## **RESEARCH INTERESTS**

Computerization of treatment planning and prediction-digital algorithmic imaging

Orthognathic surgical techniques

Three-dimensional facial mapping

Oro-nasal respiration and its relation to influences on cranio-facial growth.

Master's thesis, university of North Carolina- "Quantitative evaluation of nasal respiration in relation to facial morphology"

## **PUBLICATIONS**

1. Vig PS, Sarver DM, Hall DJ, Warren DW, Quantitative Evaluation of Mode of Respiration in Relation to Facial Morphology. Am J Orthod Dentofac Orthop, Vol. 79, pp. 263-272, 1981.
2. Waite, PM, Matukas, VJ, Sarver DM, Simultaneous Rhinoplasty in Orthognathic Surgery. Int J. Oral Maxillofac Surg.; 17:298-302.1988.
3. Sarver DM, Johnston MW, Matukas VJ. Video Imaging in Orthognathic Surgery. J Oral Maxillofac Surg., 46: 939-945, 1988.
4. Sarver DM, Johnston MW, "Skeletal Changes in Vertical and Anterior Displacement of the Maxilla with Bonded Rapid Palatal Expansion Appliances." Am J Orthodon Dentofac Orthop, Vol. 95, PP. 462-466, June 1989
5. Hernandez-Orsini R., Jacobson, A., Sarver DM, Bartolucci A., "Short-term and Long-term Soft-Tissue Profile Changes After Mandibular Advancement Using Rigid Fixation Techniques." Int J. Adult Orthodon Orthognath Surg, VOL. 4:4, 1989.

6. Sarver DM, The Jack Anderson Lecture - The Interaction of Orthodontics and Facial Plastic Surgery Arch Otolaryng Head Neck Surg. Vol. 115, May 1989.
7. Sarver DM, Johnston MJ. Video Imaging: Techniques for Superimposition of Cephalometric Radiography and Profile Images. Int Adult Orthodon Orthognath Surg. VOL, 5, NO. 4, 1990.  
Reprinted in Quintessence International, Italian Edition as "Technche de Produzione di immagini su video per la sovrapposizione di cefalogrammi e fotografie di profilo." Aprile, Anno VII, 1991.
8. Sarver DM and Weissman SM, "Long-term Soft-Tissue Response to Lefort I Maxillary Superior Repositioning." Angle Orthodon, Volume 61, No. 4, Winter, 1991.  
Reprinted in Orthodontie und Kieferorthopadie, Heft Nr. 3.3 Quartal. Jahrgang 24, 1992. Germany.
9. Wright JT, Waite PM, Mueninghoff L, and Sarver DM, "Multi-Disciplinary Dental Management of Hypomaturation Amelogenesis Imperfecta," J Am Dent Assoc, March 1991.
10. Sarver DM, Weissman SM, and Matukas VJ, "Incorporation of Facial Plastic Surgery in the Planning and Treatment of Orthognathic Surgical Cases." Int J Adult Orthodon Orthognath Surg. Volume 6, No. 4, 1991.
11. Sarver DM. Video Imaging in Clinical Orthodontic Practice, Practical Reviews in Orthodontics, Volume 3, No. 2, June 1991.
12. SARVER, DM, "Diagnosis and Treatment Planning of Hypodivergent Skeletal Pattern with Clockwise Occlusal Plane Rotation." Int J Adult Orthodon Orthognath Surg, Volume 8, No.2, 1993.
13. Sarver DM, Videoimaging: The pros and the cons, Angle Orthodon 63:167-172,1993.
14. Hayes RJ, Sarver DM, and Jacobson AJ, "Quantification of Cervicomental Angle Changes with Mandibular Advancement", Am J Orthodon Dentofac Orthop, Vol. 105, No. 4, April 1994.
15. Sarver DM, "The Esthetic Impact of Orthodontics: Planning Treatment to Meet Patient's Needs." J Am Dent Assoc, Vol. 124, November 1993.
16. Twesme DA, Sarver DM, and Matukas VJ, "Case Report-Combined Surgical and Orthodontic Treatment of an Anterior Open Bite." Angle Orthodon, Volume 62, No. 1, Spring, 1992.
17. Sarver DM and JOHNSTON, MJ, "Orthognathic Surgery and Esthetics: Planning Treatment to Achieve Functional and Aesthetic Goals". BRITISH JOURNAL OF ORTHODONTICS. Volume 20, pages 89-96, 1993.
18. Sarver DM, Johnston MJ. Video Imaging Techniques- A Computer Facilitated Approach to Communication and Planning in Orthognathic Surgery. Br J Orthod, Vol. 20, Pages 187-191, 1993.
19. Sarver, DM, "Treatment of Congenitally Missing Teeth". Orthodontic Dialogue, Am Assoc Orthodon
20. Sinclair PM, Kipelainen P, Phillips C, White RP, Rogers L, Sarver DM. The Accuracy of Video Imaging in Orthognathic Surgery. Am J Orthod Dentofac Orthoped. Volume 107, No. 2, February 1995.
21. SARVER, DM, and WEISSMAN, SM; "Nonsurgical Treatment of Open Bite in Nongrowing Individuals." AMERICAN JOURNAL OF ORTHODONTICS AND DENTOFACIAL ORTHOPEDICS, Vol. 108, No.6, December 1995.
22. Sarver, DM, "Orthodontics and Facial Esthetics" Aesthetic Surgery, Volume 14, No.1, Spring, 1994.
23. Sarver DM; "L'impact esthetique de l'orthodontie-Strategie de traitement pour repondre aux attentes du patient." ORMOS NEWS, No. 10, Vol. 3, Ormodent S.A., Paris France, September 1994.
24. Sarver DM, "The role of orthodontics in facial esthetics" Healthscope Magazine, Birmingham Alabama November 1994
25. Sarver DM; "Rapid Palatal Expansion-Another Perspective" Clinical Impressions, Volume 4, No. 1, March 1995.
26. Sarver DM, "Nondiagnostic Uses for Videoimaging" Clinical Impressions, Volume 4, No. 4, November 1995.
27. Geenty JP, Sarver DM. Case Report: A re-treatment with computer video imaging used as an aid in diagnosis and planning" Austr Orthodon J, Vol. 14 (2) 99-101, March 1996.

28. Sarver DM. Videocephalometric Diagnosis-a new concept in treatment planning; Am J Orthodon Dentofac Orthoped, Vol. 110, No. 2, August 1996.
29. Upton PM, Sadowsky PL, Sarver DM, Heaven TJ. Evaluation of video imaging prediction in combined maxillary and mandibular orthognathic surgery. Am J Orthod Dentofac Orthop; 112:656-665, 1997.
30. Williams MD, Sarver DM, Sadowsky PL, Bradley E., "Combined Rapid Maxillary Expansion and Protraction Facemask in the Treatment of Class III Malocclusions in Growing Children: A Prospective Long-term Study". Semin Orthodon, Vol. 3, No. 4 (December) 1997.
31. Sarver DM. Video-imaging and treatment presentation: medico-legal implications and patient perception. Am J Orthodon Dentofac Orthoped 1998; 113:360-363 (Ortho bytes)
32. Ackerman JL, Proffit WR, Sarver DM: The emerging soft tissue paradigm in orthodontic diagnosis treatment planning. Clin Orth. Res. 2, 1999; 49-52.
33. Sarver DM, Sample LW, "How to avoid surgical failures" Semin Orthodon 1999; 5; 257-274.
34. Sarver DM, Ackerman JL, "About Face-The re-emerging soft tissue paradigm" Am J Orthod Dentofac Orthoped, 117:575-6, 2000.
35. Sarver DM, "The face as determinant of treatment choice" Vol. 38, University of Michigan Craniofacial Growth series; pages 19-54. Ann Arbor, Michigan, 2001.
36. Sarver DM, "The smile arc-the importance of incisor position in the dynamic smile" Am J Orthod Dentofac Orthoped, 2001; 120:98-111.
37. Dickens S, Sarver DM, Proffit WR: "The dynamics of the maxillary incisor and the upper lip: a cross-sectional study of resting and smile hard tissue characteristics." World J Orthod 2002; 3:313-320.
38. Jacobson RT, Sarver DM, The predictability of maxillary repositioning in Lefort I orthognathic surgery. Am J Orthod Dentofacial Orthop. 2002 Aug; 122(2):142-54.
39. Bailey, L, Proffit WR, Blakey GH, Sarver DM; Surgical modification of long face problems. Semin Orthodon 8:173-183, 2002
40. Westwood PV, Mcnamara JA Jr, Baccetti T, Franchi L, Sarver DM. Long-term effects of early Class III treatment with rapid maxillary expansion and facial mask therapy followed by fixed appliances. Am J Orthod Dentofacial Orthop 2003; 123:306-20.
41. Sarver DM, Ackerman MB. Dynamic smile visualization and quantification: Part I. Evolution of the concept and dynamic records for smile capture. Am J Dentofac Orthop 2003; 124; 4-12.
42. Sarver DM, Ackerman MB. Dynamic smile visualization and quantification: Part 2. Smile analysis and treatment strategies. Am J Dentofac Orthop 2003; 124; 116-127.
43. Sarver DM, Rousso DR, Surgical procedures to improve esthetics in cases where orthognathic surgery is not an option; Am J Dentofac Orthop. 127: 299-301 September 2004.
44. Sarver DM, Rousso DR; Facial plastic surgical procedures combined with orthodontic/orthognathic procedures; Am J Dentofac Orthop. 126:305-7, September 2004.
45. Sarver DM. Hard Tissue Analysis-Any substance in it anymore? Invited paper in *Oracle*, Proceedings of the 39<sup>th</sup> Indian Orthodontic Conference. November 2004.
46. Sarver DM. Principles of cosmetic dentistry in orthodontics: Part 1. Shape and proportionality of anterior teeth. Am J Dentofac Orthop. 126:749-53, December 2004.
47. Sarver DM, Yanosky MR. Principles of cosmetic dentistry in orthodontics: Part 2. Soft tissue laser technology and cosmetic gingival contouring. Am J Dentofac Orthop. 127:85-90, January 2005.

48. Sarver DM, Yanosky MR. The incorporation of soft tissue lasers in orthodontic practice. Part 3. Laser treatments for tooth eruption and soft tissue problems. *Am J Dentofac Orthop*. February 2005.
49. Sarver DM. Soft-Tissue-Based Diagnosis and Treatment Planning. *Clinical Impressions*, Vol. 14, No. 1 p.21-26, March 2005.
50. Sarver DM, "Fewer Appointments, Faster Movement- How to build, place, and remove a bonded expander"; *Orthodontics Products*, March 2005.
51. Sarver DM, Yanosky MR, Case report-Combined Orthodontic, Orthognathic, and Plastic Surgical Treatment of an Adult Class II Malocclusion. *Journ Clin Orthod*, April 2005.
52. Sarver DM. Soft-Tissue-Based Diagnosis and Treatment Planning. *Torq-India's First Orthodontic News Magazine*. Vol. 1, Issue 3, October Dec 2005.
53. Gianelly AG. Sarver DM "Interview on Facial Esthetics with Dr Anthony Gianelly" *Progress in Orthodontics, Mediterranean Journal Orthodontics*; Vol. 7/I, 2006.
54. Wells AW, Sarver DM, Proffit WR. Long-term efficacy of reverse-pull headgear therapy. *Angle Orthodontist*, Vol 76, No 6, 2006
55. Sarver DM, The use of the 810 nm diode laser: soft tissue management and orthodontic applications of innovative technology. *Pract Proced Aesthet Dent*, Oct;18 (9): suppl 7-13. 2006
56. Ackerman JL, Proffit WR, Sarver DM, Ackerman MB, Keane MR. Pitch, Roll, and Yaw: Describing the Spatial Orientation of Dentofacial Traits. *Am J Dentofac Orthop*. March 2007.
57. Sarver DM, Flax H. Interview with Dr. David Sarver. *J Cosm Dent*; Volume 23 (3), Fall 2007.
58. Sarver DM, Rozenweig G: Interview with Dr David Sarver-Contemporary trends in Orthodontics. *L' Orthodontie Francaise*, 2008
59. Sarver, DM. The use of digital image services to create customized documents for the orthodontic office. *Am J Dentofac Orthop* vol. 133 (5), pp 771-776, May 2008.
60. Scholz RP, Sarver DM. Interview with an Insignia doctor: David M. Sarver. *Am J Orthod Dentofacial Orthop*. 2009 Dec;136(6):853-6.
61. Incrapera AK, Kau CH, English JD, Sarver DM: Soft Tissue Images Compared With Those from a 3D Surface Acquisition System. *Angle Orthod*. 2010 Jan;80(1):58-64.
62. Sarver DM: The Aging Face and how the dental team can affect esthetics for a lifetime. *Compendium of Dentistry*, vol.131 (4) p 274-283, May 2010.
63. Sarver DM: Enamelplasty and esthetic Finishing in Orthodontics-Identification and Treatment of Microesthetic Features in Orthodontics Part1. Vol. 23(5); pp. 296-302. *J Esthet Restor Dent*, 2011.
64. Sarver DM: Enamelplasty and esthetic Finishing in Orthodontics-Differential Diagnosis of Incisor Proclination-The Importance of Visualization and Records Part 2. Vol. 23(5); pp. 303-313. *J Esthet Restor Dent*, 2011.
65. Sarver DM: The Business and Profession of Orthodontics. Invited editorial, *Journ Dentofac Esth*, Vol 12 #3, 2011.
66. Sarver DM: Tips from an orthodontist, winter, Vol. 27, #4. *J Cosmetic Dent*. 2012.
67. Sarver DM, Janyavula S, Cron R: Condylar Degeneration and Diseases - Local and Systemic Etiologies, *Sem Orthodon*, Vol. 19, No.2, pp. 89-96 (June), 2013.
68. Dudney TE, Sarver DM,; Interdisciplinary Treatment Expanded, *Dentistry Today*, Vol. 34 (1); Jan 2015
69. Sarver DM: Ankylosed primary teeth with no permanent successors: What do you do? *Dentistry IQ*, online; Mar 2015.
70. Sarver DM: The Interaction of Hard Tissue, Soft Tissue, and Growth over Time, and its Impact on Orthodontic Diagnosis and Treatment Planning. Invited Centennial article *Am J Orthod Dentofacial Orthop* 2015; 148:380-6.

71. Lu C., Huguley S., Cui C., Cabaniss L., Waite P., Sarver D., Mamaeva O., MacDougall; Effects of FGFR Signaling on Cell Proliferation and Differentiation of Apert Dental Cells. M.CELLS TISSUES ORGANS, Ms No.: 201504002
72. Sarver D; Severe Malocclusion: The Importance of Appropriately Timed Treatment. Journ Cosmet Dent. Winter, Vol. 31, #4, 2016.
73. Sarver D; Mission Possible. Journ Cosmet Dent. Winter, Vol. 31, #4, 2016.
74. Sarver DM; Contemporary Orthodontic Treatment Planning: Incorporating smile design and facial esthetics. Inside Dentistry, pp. 49-52, September 2017.
75. Sarver DM. The soft-tissue paradigm for guiding patient-centered orthodontic treatment. In: Kim-Berman H, Franchi L, Ruellas A, eds. Effective, Efficient and Personalized Orthodontics: Patient-centered Approaches and Innovations. Craniofacial Growth Series, Department of Orthodontics and Pediatric Dentistry and Center for Human Growth and Development, The University of Michigan, Ann Arbor, MI 2018;55:89-110.
76. Balut N, Sarver DM, Popnikolov P. Strategies for Bracket Placement Based on Smile Esthetics' Vol Liii, #6, JCO. June 2019
77. Diaz-Rubayo D, Sarver DM; Souccar NM: A Study of Enamel Thickness of Permanent Maxillary Canines. Submitted for publication Am J Orthod Dentofac Orthoped. 2019.
78. Sarver DM: Low tech-high skill treatment in a digital world'. Sem Orthodon Vol26, No. 1, 2020 pp 3-10.
79. Sarver DM, Sinclair P; Interview with a master clinician, Accepted for publication, Jour Clin Orthodon; January 2021.
80. Sarver DM, Smile Projection- a new concept in smile design. Journ Esth Restor Dent. February 2021.

## **BOOK CHAPTERS**

1. Sarver DM., "The Interaction of Orthodontics in Facial Esthetics." THE TEEN FACE, Am Acad Fac Plast Reconstruct Surg, Washington, D.C. CHAPTER 11 Acropolis Publishers, 1989.
2. Sarver DM., "Orthodontic Considerations in Lip Morphology," Lip Surgery, STIENBERG, C.M., and CALHOUN, K.: CHAPTER, Thieme inc., New York, New York. Published December 1991.
3. Sarver DM., "Videocephalometry", Radiographic Cephalometry: From Basics to Videoimaging, Quintessence Publishing Co. Inc., Carol Stream, Illinois.1995.
4. Sarver DM., "The Role of Orthodontics in the Treatment of Obstructive Sleep Apnea", Oral Maxillofac Clin North Am, Obstructive Sleep Apnea, W.B. Saunders, Boston, MA. 1995.
5. Sarver DM, "The diagnostic application of videoimaging technology in orthodontics-Videocephalometric prediction" Clark's Compendium of Clinical Dentistry, CV Mosby Co., St. Louis, Missouri.1999
6. Sarver DM, "Videoimaging technology in orthognathic surgery" Orthognathic Surgery, Volume 2; ed. R Fonseca. Saunders, Inc. 2000.
7. Sarver DM, Ackerman, JP and Proffit, WR, "Diagnosis and Treatment Planning in Orthodontics-The modern soft tissue paradigm", Chapter 1 in Orthodontic Practice and Principles (3<sup>rd</sup> edition) edited by Dr. Tom Graber and Robert Vanarsdall, Harcourt, Brace, and Mosby, Inc. St. Louis. February 2000.
8. Sarver DM; "The Face as Determinant of Treatment Choice", in Frontiers of Dental and Facial Esthetics" Monograph for the 2000 Moyer's Symposium, Ed. McNamara JA, Kelly K. University of Michigan, pp. 19-24, 2001.

9. Sarver DM, Ackerman MB' "Dynamic Smile Visualization and Quantification and its Impact on Orthodontic Diagnosis and Treatment Planning" in *The Art of the Smile-integrating prosthodontics, orthodontics periodontics, dental technology, and plastic surgery*", Ed. R. Romano, Quintessence Publishing Co. Chicago, IL. 2005. 99-139.
10. Sarver DM, Ackerman MB, "Data Base Acquisition and Treatment Planning" *Peterson's Principles of Oral and Maxillofacial Surgery*, Vol. 2, 2<sup>nd</sup> edition;2004
11. Sarver DM, "The Art and Science of Appearance and the Smile" Monograph for the 2003 Moyers's Symposium. University of Michigan. 2004.
12. Sarver DM, Proffit, WR, "Diagnosis and Treatment Planning in Orthodontics-The modern soft tissue paradigm", Chapter 1 in *Orthodontic Practice and Principles (4<sup>th</sup> edition)* edited by Graber T, Vanarsdall R, Vig K, Elsevier, Inc. St. Louis. 2005.
13. Sarver DM, Jacobson RS; "The Aesthetic Dentofacial Analysis", pp. 369-394, *Clinics in Plastic Surgery* Ed Patel PK; Vol. 34(3), Elsevier, Inc. July 2007.
14. Sarver DM' "Arte e Ciencia da Aparencia e Estetica, Chapter 10 in *Ortodontia: Arte e Ciencia*: Ed. Filho RMAL, Bolognese AM. Ringa Dental press Editora , Sao Paulo , Brazil, 2007.
15. Sarver DM. Augmenting and Improving Esthetics through Surgical Intervention. In: McNamara JA Jr, Kapila SD, eds. *Surgical Enhancement of Orthodontic Treatment*. Monograph 47, Craniofacial Growth Series, Department of Orthodontics and Pediatric Dentistry and Center for Human Growth and Development, The University of Michigan, Ann Arbor, 2010;1-31.
16. Sarver DM, Yanosky, MR., Special Considerations in Diagnosis and Treatment Planning. Chapter 2 in *Orthodontic Practice and Principles (5<sup>th</sup> edition)* edited by Vanarsdall R, Vig K, Elsevier, Inc. St. Louis, 2011.
17. Sarver, DM, Facial Analysis and Treatment in Esthetic Dentistry, Chapter 2 in *Esthetics in Dentistry (3<sup>rd</sup> Edition)* Edited by Dr Goldstein, R. In press 2015.
18. Sarver, DM, Orthodontic Diagnosis and Treatment from the Outside In. In: McNamara JA Jr, Kapila SD, eds. Monograph of the 40<sup>th</sup> anniversary Moyers Symposium, Craniofacial Growth Series, Department of Orthodontics and Pediatric Dentistry and Center for Human Growth and Development, The University of Michigan, Submitted for publication 2013.
19. Sarver DM,. Special Considerations in Diagnosis and Treatment Planning. Chapter in *Orthodontic Practice and Principles (6<sup>th</sup> edition)* edited by Graber L, Vanarsdall R, Vig K, Huang G; Elsevier, Inc. St. Louis, 2016.
20. Sarver DM,. Facial Analysis in Esthetic Dentistry; Ronald E. Goldstein's *Esthetics in Dentistry*, 3rd Edition. Wiley, Inc 2017.

## **BOOKS**

Esthetic Orthodontics and Orthognathic Surgery- C.V. Mosby Co., St. Louis. MO., September 1997.

Contemporary Treatment of Dentofacial Deformity-C.V. Mosby, St. Louis. Editor and Coauthor with Dr. William R. Proffit and Dr. Raymond P. White, 2002

Contemporary Orthodontics - 4<sup>th</sup> Edition; C.V. Mosby/Elsevier. Editor and Coauthor with Dr. William R. Proffit and Dr Henry Fields. 2007.

Contemporary Orthodontics - 5<sup>th</sup> Edition; C.V. Mosby/Elsevier. Editor and Coauthor with Dr. William R. Proffit and Dr Henry Fields. 2012.

Contemporary Orthodontics- 6<sup>th</sup> Edition; C.V. Mosby/Elsevier. Editor and Coauthor with Dr. William R. Proffit, Dr Henry Fields, Dr Brent Larsen. 2018.

Dentofacial esthetics: from macro to micro- Sarver, D M. 2020 Quintessence Publishing Co, Inc, Quintessence Publishing Co Inc. 411 N Raddant Road, Batavia, IL 2020.

## **AAO SPONSORED TAPE SERIES**

Co-author, "Topics in Orthodontics" 2006-2009.

## **COMPUTER SOFTWARE DEVELOPMENTS**

1. "CASES" CD-ROM developed in collaboration with Dr. Jim Hilgers, Ormco Corp. (Orange, CA) and Simstar Corp. (Tamarack, NJ) 1994.
2. "ORTHOGNATHIC SURGERY" CD-ROM developed in collaboration with Ormco Corp. (Orange CA) and Simstar Corp. (Tamarack, NJ), 1996.
3. Developed diagnostic, databasing and communication videoimaging software with Carestream Dental, , Atlanta, GA.
  - OrthoTrac Image
  - OrthoCat examination and databasing software
  - The Sarver Module

## **PROFESSIONAL PRESENTATIONS**

1. Webinar- SIDO (Italian Society of Orthodontists), November 14, 2020.
2. Webinar- Southern Association of Orthodontists, October 16, 2020.
3. Webinar- European Edward H Angle Society of Orthodontists, October 19, 2020
4. Webinar-Lebanese Orthodontic Society- "New concepts in Dentofacial Esthetics". September 18, 2020
5. Webinar-Egyptian Orthodontic Society- "New concepts in Dentofacial Esthetics". July 11, 2020
6. Webinar-Turkish Orthodontic Society- "New concepts in Dentofacial Esthetics". June 28, 2020
7. Webinar-Quintessence Publishing Seminars, "New concepts in Dentofacial Esthetics". May 22, 2020.
8. Webinar-ACT Dental Seminars- "New concepts in Dentofacial Esthetics". May 19, 2020.
9. Webinar-Glasgow Orthodontic Academy United Kingdom, "New concepts in Dentofacial Esthetics". May 17, 2020.
10. Webinar-Brazilian Orthodontic Society, "New concepts in Dentofacial Esthetics". May 16, 2020.
11. Webinar-TDO: Live! Meeting 2020 Virtual Webinar by Neon Canvas April 24, 2020
12. "Craniofacial maturation and it's esthetic impact"-Georgia Association of Orthodontists, Atlanta, GA. February 28-29, 2020.
13. "Smiles-New Concepts to make your smiles SNAP!": 6th International Symposium of Orthodontics; Madrid Spain, February 7, 2020.
14. "New Concepts in Esthetics"; The Midwest component of the Edward H. Angle Society, Laguna Niguel Dana Point, CA. February 2, 2020.
15. "Smiles-New Concepts to make your smiles SNAP!": The Soho Symposium, London, England, Dec 6, 2019.
16. "Diagnosis from the outside to in-Macro- Mini-Micro"; the 50<sup>th</sup> Italian Society of orthodontics international Congress, Rome, Italy, October 10-12, 2019.
17. "The Interaction of Hard and Soft-tissue Overtime and its Importance on Treatment Planning" and "Smiles-New Concepts Designed to Make your Smiles SNAP!". BCNortho, Barcelona, Spain; September 20-21, 2019..



18. "The Puzzle of Dentofacial Esthetic-The Systematic Approach." The 13<sup>th</sup> Annual Symposium on Periodontics and Restorative Dentistry, Boston MA, June 7, 2019.
19. "Remember the Face? Where do we go from here?" The meeting of the American Association of Orthodontists, Los Angeles, CA, May 5, 2019.
20. "The Interaction of Hard and Soft-Tissue Over Time And It's Importance in Treatment planning" and "Smiles-New Concepts Designed to Make Your Smiles SNAP" , 24<sup>th</sup> Asociacion Iberoamericana Ortodoncistas, La Paz, Bolivia. April 6, 2019.
21. "One Clinician's Resolution-A Balance between Esthetics and ABO standards" and "The Profession and Business of Orthodontics-a Candid Discussion of our challenges", The 50<sup>th</sup> New-Conn annual meeting, White Plains, New York; March 29-30, 2019
22. "Esthetics for a Lifetime-Discover the Keys" and Orthodontics-Transaction or transformation?". Associations of Orthodontists (Singapore) Congress. Singapore, Singapore, February 23, 2019.
23. "Microesthetics-If you don't see it, you won't treat it". Nippon Dental University, Tokyo, Japan; November 2 , 2018
24. "Protocols for optimization of the Face and Smile". The 77<sup>th</sup> Annual meeting of the Japanese Orthodontic Society; Yokohama, Japan, November 1, 2018.
25. "Effective Integration of Digital Workflow into Clinical Practice", The American Society of Dental Aesthetics; Nashville, Tennessee. October 27, 2018.
26. "The Contemporary Blend of Esthetic Smile Design: The role of the case presentation". The British Orthodontic Conference, London, England September 29, 2018.
27. "Esthetic design and the customized appliance system Insignia". The annual Insignia Global User's meeting, Amsterdam, Netherlands; September 21, 2018.
28. "The Soft Tissue Paradigm for Guiding Patient Based Orthodontic Treatment Needs." The 30<sup>th</sup> annual GORP Symposium, the University of Michigan, Ann Arbor, Michigan. August 4, 2018.
29. "Orthodontics-how it has changed and what it means to us", the 1<sup>st</sup> Golub Endowed Lecture, Boston Mass. Tufts University, June 1, 2018
30. "Orthodontics has changed and what you want to know"; The Toronto Orthodontic Study Club, Toronto, Canada, May 25, 2018.
31. "The Contemporary Blend of Esthetic Smile Design; "The annual meeting of the American Association of Orthodontists, Washington, DC, May 5, 2018.
32. "Finishing in Complex Adult Cases", Venice, Italy. April 20, 2018.
33. "The Orthodontists Role in Interdisciplinary Treatment", the Aberdeen Seattle Study Club; Aberdeen, MD," April 6, 2018.
34. "Contemporary Interdisciplinary Treatment Planning and Coordination of Care", OMax study club, Spokane, Washington. March 16, 2018.
35. "The Soft Tissue Paradigm for Guiding Patient Based Orthodontic Treatment Needs." The 45<sup>th</sup> annual Moyer Symposium, the University of Michigan, Ann Arbor, Michigan. March 3, 2018.
36. "Changes in the Frontal Soft Tissue of the Lower Face by Age and Sex; Annual meeting of the Midwest Edward H. Angle Society, Scottsdale, AZ February 4 2018.
37. "Partial Dental Agenesis-From lateral incisors to multiple teeth", The American Association of Oral and Maxillofacial Surgeons, Chicago, Illinois. December 1 , 2017.
38. "CBCT-where does it fit in today's practice?", The Birmingham Society for Advanced Dentistry; Birmingham, AL. November 27, 2017.

39. "Dentofacial Esthetics: a new face on interdisciplinary dentistry". The Great Philadelphia Society of Orthodontists", Philadelphia, PA; November 15, 2017.
40. "Interdisciplinary Esthetics". The Montana Study Club, Bozeman, Montana; November 3, 2017.
41. "Insignia-See things differently". The Ormco Global Insignia User's meeting, New York, N.Y.; October 20, 2017.
42. "A Very Long View of the Development Of "Digital Orthodontics", The annual meeting of the Southern Association of Orthodontists, Tampa, Florida; October 6-7, 2017.
43. "Esthetics and Orthodontics", The combined meeting of the Great Lakes Association of Orthodontists, Midwest Society of Orthodontists, and the Southwest Society of Society. New Orleans, LA; September 15, 2017.
44. "Orthodontics has changed and what you need to know about it", Casco Bay Study Group, Portland Maine. September 8, 2017.
45. "Contemporary Orthodontics and Current concepts in Interdisciplinary Treatment", The Southern California Orthodontic Study Clubs. Newport Beach , CA, August 25-26, 2017.
46. Orthodontics-Transaction or Transformation?" The 1<sup>st</sup> Quadrennial meeting of the American Academy of Esthetic Dentistry; Coronado, CA; August 3, 2017.
47. "Smile Esthetics in Orthodontics", SEDO 2017; meeting of the Spanish Society of Orthodontists; Malaga, Spain, June 16-17, 2017.
48. "Facial Esthetics-More than a Smile", annual meeting of the American Association of Orthodontists, San Diego, CA. April 2014, 2017.
49. "Contemporary Orthodontics", Tel Aviv University Annual meeting, Tel Aviv, Israel, March 30, 2017.
50. "Contemporary Interdisciplinary Dentistry", the Memorial South Florida dental Study Clubs. Ft Lauderdale, FL, March 17, 2017.
51. "Dentofacial Esthetics: a new face on interdisciplinary dentistry". The annual meeting of the Ohio State Orthodontic Society, Columbus, Ohio, February 17, 2017.
52. "Cone-beam CT in today's practice. Where does it fit"; the annual meeting of the Midwest Angle Society, Rancho Mirage, CA. February 1, 2017.
53. The Contemporary Blend of Esthetic Smile Design and Case Presentation" and "Early Treatment"; the Northeast Society of Orthodontists, New York City, New York, October 7, 2016.
54. "Insignia...Technology beyond brackets". The Ormco Insignia Global User's Meeting. New York City, New York, September 30, 2016.
55. The Milton Sims Lecture. "Digital Orthodontics"; The 50<sup>th</sup> Annual meeting of the Australian Begg Society of Orthodontists, Broome, Australia. August 1-9, 2016.
56. "Orthodontics has changed and what you need to know", the 12<sup>th</sup> annual International Symposium on Periodontics and Restorative Dentistry. Boston, MA, June 17, 2016.
57. "Orthodontics has changed and what you need to know", Ortho Science Symposium, Curitiba, Brazil; May 14, 2016.
58. "Orthodontics is changing and what you need to know", The New York Dental Forum, New York, New York; May 7, 2016.
59. "The Gummy Smile-simplifying treatment planning with the Checklist Manifesto", The annual meeting of the American Association of Orthodontists, Orlando FL; May 3, 2016
60. Orthognathic surgery" grand Rounds-.UAB departments of orthodontics and oral maxillofacial surgery. Birmingham Alabama, April 19, 2016.

61. "Contemporary orthodontic diagnosis and treatment planning", the annual meeting of the Virginia Association of orthodontists; Richmond, Virginia. April 8-9, 2016.
62. "The Fundamentals of Macro-Mini, and Microesthetics". The 15th Annual Ormco Forum; Terranea Resort, CA; February 12, 2016.
63. "The Profession and the Business of Orthodontics". The Annual meeting of the Midwest Angle Society; Naples, FL January 26 2016.
64. "Facial Aging: Orthodontic/Surgical Treatment Plan Considerations that Reverse and/or Reverse Facial Aging"/ The AAO Winter Meeting. Indian Wells, CA, January 24, 2016.
65. "Orthodontics has changed and what it means to the Dental Team", The Perico Dental Study Club, Boston, MA, November 12, 2015.
66. "Protocols for optimization of the Face and Smile "and "Orthognathic surgery in the 21<sup>st</sup> Century", The Roth-Williams International Orthodontics Association. Ft. Lauderdale, FL, October 26, 2015.
67. "Orthodontics has changed and what it means to the Dental Team" and "Orthognathic Surgery in the 21<sup>st</sup> Century". The 8<sup>th</sup> annual meeting of the World Federation of Orthodontists; London, England, September 28, 2015.
68. "The Complete Esthetic Analysis-Macro-Mini-and Microesthetics "The annual meeting of the Society for Color and Appearance, Chicago, Illinois; September 25, 2015.
69. "Orthodontics is changing and what it means to the young orthodontist", the annual Graduate Orthodontic Residency Program (GORP), St. Louis, MO, August 1, 2015.
70. "The 4th dimension of Time and its importance in multi-disciplinary treatment-How the dental team enhances facial and dental esthetics for a lifetime", The European Orthodontic Society, Venice, Italy; June 15, 2015.
71. "Esthetic design and the merging of technology with treatment planning and delivery"; The 115<sup>th</sup> annual meeting of the American Association of Orthodontists, San Francisco, California, May 18 2015.
72. "Orthodontics has changed and what it means to the Dental Team, "Valley District Dental Society, Hartford, Connecticut. May 8, 2015
73. "The Expanded Esthetic Vision" and Condylar resorption", The Portuguese Society of Orthodontists, Coimbra, Portugal. April 23-24, 2015.
74. "Esthetic Diagnosis and Contemporary Orthodontic Practice". The Illinois Society of Orthodontists, Chicago, Illinois, April 13, 2015.
75. " The Global Approach to Orthodontic Diagnosis" and " Microesthetic Analysis and Treatment"; BCN Ortho, Barcelona, Spain., March 20-21
76. "Imaging Hands-on", The OrthoTrac User's Meeting, Atlanta, GA, March 14, 2015.

77. "Orthodontics Has Changed-and it's Clinical Significance", the Mexican Orthodontic Society, Guadalajara, Mexico. March 5, 2015.
78. "The Expanded Esthetic Vision" and "The New Orthodontics and What it means to the Dental Team", The Chicago Midwinter Meeting, Chicago, Illinois. February 28, 2015.
79. "The Future of the Orthodontic Profession-The Tipping Point?", The Ormco Forum, Orlando, Florida, February 19, 2015.
80. "The Systematic Esthetic Analysis-the next level ", The Columbus Interdisciplinary Dental Study Club, Columbus, Ohio, January 16, 2015.
81. "Growth Principles Critical to Excellent Interdisciplinary Care". The American Society of Dental Aesthetics; Baltimore, MD, October 24, 2014.
82. "Orthodontic Diagnosis and Treatment from the Outside in", Italian Society of Orthodontists; Florence, Italy, October 8, 2014.
83. "Surviving in a Volatile World", DocTalk (sponsored by Ormco, Corp.), Las Vegas, NV, September 26, 2014.
84. "Principles of Macro Aesthetics and Ideal Proportions", "Biomechanics, Positioning Of Braces, and Occlusal Coordination and Aesthetic Goals." The 35<sup>th</sup> annual meeting of the Columbian Association of Orthodontists, Cartagena, Columbia, September 19, 2014.
85. "Orthodontics in the future-Challenges and Perspectives". College of Diplomates of the American Board of Orthodontics, Whistler, CO.; July 15, 2014.
86. "CBCT-Where does it fit in your practice?" The 115<sup>th</sup> Annual meeting of the American Association of Orthodontists, New Orleans, LA. April 27, 2014.
87. "The Systematic Esthetic Analysis-the next level", The Toronto Crown and Bridge Society, Toronto Canada, April 11, 2014.
88. "CBCT-Where does it fit in your practice?" The New-Conn Study Club, New York, New York. April 5, 2014.
89. "Contemporary Dentofacial Esthetic Treatment 2014". Winnipeg Dental Society, Winnipeg, Canada, March 21, 2014.
90. "Hands-on Use of Carestream Imaging"- Carestream User's meeting, Atlanta, GA, March 15, 2014.
91. "Adjunctive Esthetic Surgery for the Adult Patient" The Winter Conference of the American Association of Orthodontists; Las Vegas, Nevada, February 8, 2014.
92. "The Missing Lateral Incisor-The Orthodontic Triad of Direction" The Midwest Angle Society, Orlando, Florida. January 20, 2014.

93. "New Concepts in Dentofacial Esthetics "The Calgary district dental Society, Calgary, Alberta, Canada. January 17, 2014.
94. "Smile Esthetics-the Next Level" The New Jersey Association of Orthodontics, Windsor, New Jersey, October 22, 2013.
95. "Technology-past, present, and Future" The Southwest Society of Orthodontists annual meeting-the 27<sup>th</sup> annual Joe D. Peak Memorial Lecture; Dallas, Texas, October 12, 2013.
96. "The Comprehensive smile Analysis-the next level" and "Synchronization of the smile analysis and how to make it happen in the clinical setting"; The annual meeting of the British Orthodontic Society, Manchester, England, September 19-21, 2013.
97. "The Expanded Esthetic Vision", the Birmingham District Dental Society, Birmingham, AL; September 16, 2013.
98. "Orthodontics has Changed-and What That Means to the Dental Team" The 38<sup>th</sup> Annual meeting of the American Academy of Esthetic Dentistry, Washington, DC, June 7, 2013.
99. "The Global Esthetic Assessment and Treatment in Dentofacial Esthetics", the 11<sup>th</sup> International Symposium on Periodontics and Restorative Dentistry, Boston, MA June 7, 2013.
100. "The Systematic and Comprehensive Smile Analysis" 11<sup>th</sup> International Conference of the University of Antioquia Association of Orthodontists, Medellin, Columbia May 17-18, 2013.
101. "The Art and Humanity in Orthodontics. -Make your patients into champions", **The Edward H. Angle Lecture.** The 113<sup>th</sup> Annual session of the American Association of Orthodontists. Philadelphia, PA, May 4, 2013.
102. "Identification and Treatment of Microesthetic features of the Smile", "The Systematic and Comprehensive Smile Analysis-The Next Level", and "The Aging Face-How the Dental Team Enhances Facial & Dental Esthetics for a Lifetime"; The 101<sup>st</sup> annual Hinman Meeting, Atlanta, GA, March 21-23, 2013.
103. "Hands-on use of Digital imaging" The annual OrthoTrac User's meeting, Atlanta, Georgia. March 9, 2013
104. "Orthodontics from the Outside In" The 40<sup>th</sup> annual Moyers Symposium, Ann Arbor, Michigan. March 8, 2013
105. "A New Face on Interdisciplinary Diagnosis and Treatment", the 30<sup>th</sup> annual meeting of the International Society for Interdisciplinary Dentistry. Deer Valley, Utah, February 26, 2013.
106. "The Aging Face". The Annual meeting of the American Equilibration Society, Chicago, Illinois, February 21, 2013.
107. "The Global Dentofacial analysis" The Annual meeting of the American Academy of Fixed Prosthodontics, Chicago, Illinois, February 22, 2013
108. "Designing Your Practice Model with Disney Principles AND Quality of care and outcome", The Gorman Symposium, Las Vegas, Nevada. February 8, 2013
109. "Harmonic Convergence of Soft Tissue and Orthodontics" With Dr Louis Costa. The North Carolina Association of Orthodontics, Durham, NC. February 1-2, 2013.

110. "Future Visions" In-office hands-on course. Birmingham, Alabama. January 17-19, 2013.
111. "Why Do We Do What We Do?" The Midwest Component of the Edward H. Angle Society, Naples, Florida. January 27, 2013.
112. "Embracing Diversity-Embracing Orthodontics" The Asian Pacific Orthodontic Conference. 1 day course and an Oration Main meeting, New Delhi, India, February 28; February 29, 2012.
- 113., Northeastern Society of Orthodontics, New York, New York. November 9, 2012.
114. "Dentofacial Esthetics: a New Face on Interdisciplinary Dentistry" The annual meeting of the Wisconsin Society of Orthodontics. Sheboygan, Wisconsin. October 20, 2012
115. "The Global Dentofacial Analysis and Treatment", the American Society for Dental Aesthetics. Tucson, Arizona; October 13, 2012
116. "Standing Up to Adversity in a Volatile World." The annual meeting of the Southern Association of Orthodontists; Asheville, NC. September 29, 2012.
117. "Goal Oriented Treatment Planning and Technological Advancements". The Middle Atlantic Society of Orthodontists", Baltimore MD, September 22, 2012.
118. "Contemporary Orthodontics-The Role of Appearance & Esthetics in Diagnosis and Treatment Planning", the Canadian Foundation for the Advancement of Orthodontics, the McIntyre Memorial Lecture. Ottawa, Canada, September 8, 2012
119. "The Global Assessment and Treatment in Dentofacial Esthetics" The University of Pennsylvania Esthetic Symposium, Philadelphia, PA. June 14, 2012
120. Contemporary Orthodontics" The 51<sup>st</sup> annual A.P. Westfall Seminar, The University of Texas-Houston Alumni meeting. San Antonio, Texas, June 8-10, 2012
121. "The Aging Face" and "Microesthetics in Orthodontics" The annual Meeting of the American Association of Orthodontics sponsored Post-meeting conference. Maui, Hawaii, May 9-10, 2012.
122. "Adventures in Imaging" The OrthoTrac User's meeting. Atlanta, Georgia, March 10, 2012.
123. "The Expanded Esthetic Vision" The Central Texas Academy of General Dentistry, Austin Texas, February 16, 2012.
124. "What do you believe?" With Mr. Randy Berning; "Standing up to Adversity in challenging times" with Charlene White and Randy Berning;" Orthodontics for the future". The Gorman Symposium, Las Vegas, NV, January 18-19, 2012.
125. "Technology in Orthodontic Practice-What is the Tipping Point for Real Application?" and " Microesthetic finishing in Orthodontics"; The Hixon Memorial Lecture, Oregon Orthodontic Alumni meeting, Portland, Oregon; December 2, 2011.

126. "Contemporary Orthodontics-The Role of Appearance & Esthetics in Diagnosis and Treatment Planning" The Argentina Orthodontic Association in conjunction with the Argentina Dental Association. Buenos Aires, Argentina, November 2, 2011.
127. "Dentofacial Esthetics: a new face on interdisciplinary dentistry" The Seattle Study Club of Winnipeg. Winnipeg, Manitoba, Canada; October 14, 2011.
128. "Future Directions in Custom Appliances" The Insignia User's meeting, New York, New York, Oct1, 2011
129. "Technology in Orthodontic Practice-What is the Tipping Point for Real Application?" The Pacific Coast Society of Orthodontists, Vancouver, BC, Canada. September 24, 2011.
130. "The Evolution of Orthognathic Surgery at UAB" and "Surgical Failures and How to Avoid Them", The McCallum Society of Oral and Maxillofacial Surgery, Orange Beach, Alabama July 16, 2011.
131. "The Expanded Esthetic Vision" The American Academy of Cosmetic Dentistry, Boston, Massachusetts, May 20, 2011.
132. "The Harmonic Convergence of Soft Tissue and Orthodontics" The Annual Session of the American Association of Orthodontists, Chicago, Illinois, May 14, 2011.
133. "Synchronization of the Interdisciplinary Esthetic Team" and "Digital Technology in Orthodontic Practice" The BCN Ortho meeting, Barcelona, Spain, April 8-9 2011.
134. "DIGITAL CASE MANAGEMENT-THE SARVER MODULE" The OrthoTrac Users meeting, Atlanta, Georgia, March 11, 2011.
135. "Contemporary Analysis and Treatment of the Smile in Orthodontics", the Mexican Association of Orthodontists, Cancun, Mexico; March 3, 2011.
136. "Dentofacial Esthetics: a new face on Interdisciplinary Dentistry" The Chicago Midwinter Dental Meeting, Chicago, Illinois, February 25, 2011.
137. "Current Technology to Transfer Large files" The Midwest Component of the Edward H Angle Society; Orlando, Florida, February 31, 2011
138. "Soft and hard tissue changes as patients age." The American Association of Oral and Maxillofacial Surgeons Winter Implant Conference; Chicago, Illinois, December 3, 2010.
139. "Contemporary Orthognathic Surgery", the Crescent Oral Surgery Group, Toronto, Canada November 5, 2010.
140. "Identification and Treatment of Microesthetics" and 1-day "Appearance and orthodontics", The 14<sup>th</sup> Meeting of the Polish Orthodontic Society, Warsaw Poland, October 2-3, 2010.
141. "New Perspectives on Implants" The Insider's meeting, Ormco Corp, Santa Barbara, CA, September 11, 2010.
142. "Diagnosis and Treatment Planning in 3-Dimensions-New Vistas" The McCallum Society of Oral Surgeons, Orange Beach Alabama, July 17, 2010.
143. "Contemporary Diagnosis and Treatment in Orthodontics" St. Petersburg, Russia, May 15, 2010
144. "Synchronization of Interdisciplinary Care", The Annual Session of the American Association of Orthodontists. Washington, D.C, May 2, 2010.
145. "The New Orthodontist/Residents Seminar", The Annual Session of the American Association of Orthodontists. Washington, D.C, May 2, 2010.

146. Growth, Maturation and Aging: How the Dental Team can Enhance Appearance for a Lifetime", The Southeastern Academy of Prosthodontists. Birmingham, AL, April 24, 2010.
147. Contemporary Diagnosis and Treatment in Orthodontics""The Temple University Alumni, Philadelphia, PA. March 26, 2010
148. "DIGITAL CASE MANAGEMENT-THE SARVER MODULE" The OrthoTrac Users meeting, Atlanta, GA, March 12, 2010.
149. "SMILE ESTHETICS-CHALLENGES IN THE ESTHETIC ZONE", "ADJUNCTIVE PROCEDURES FOR THE ENHANCEMENT OF ADULT ORTHODONTIC TREATMENT", " CONTEMPORARY CONCEPTS IN SMILE ESTHETICS FACES Interdisciplinary meeting, Steamboat Springs, CO ,March 8-9, 2010
150. "THE AGING FACE AND HOW THE DENTAL TEAM CAN AFFECT ESTHETICS FOR A LIFETIME", THE 87th meeting of the American academy of restorative dentistry. Chicago, Illinois, Smile Concepts and Treatment in the Adolescent Patient, February 27, 2010.
151. "DIAGNOSIS AND TREATMENT PLANNING INCORPORATING CONTEMPORARY ESTHETIC GOALS" AND "SMILE CONCEPTS AND TREATMENT IN THE ADOLESCENT PATIENT"; The World Federation of Orthodontists 4th annual meeting, Sydney, Australia, February 8-9, 2010.
152. "SMILE ESTHETICS-ANY EVIDENCE THAT IT IS REAL?" With Dr. Henry Fields, AAO Winter Conference on Esthetics, Palm Springs, CA January 22, 2010.
153. PRESYMPOSIUM COURSE BIENNIAL SURGICAL SYMPOSIUM IN ORTHODONTICS, "ESTHETICS-THE ORTHODONTICS-SURGICAL-RESTORATIVE PERSPECTIVE", "SMILE ESTHETICS", AND "ORTHODONTIC TREATMENT PLANNING" Haarlem, Netherlands, December 9-11, 2009
154. "TECHNOLOGICAL ADVANCEMENTS IN ORTHODONTICS" AND CURRENT CONCEPTS IN ESTHETICS IN ORTHODONTIC TREATMENT PLANNING", The Joe Peake Memorial lecture, The Southwest Society of Orthodontists, Cancun, Mexico November 6-7, 2009
155. "CONTEMPORARY ORTHODONTICS TREATMENT PLANNING" The Quebec Society of Orthodontists, Montreal, Canada; October 16, 2009.
156. "ORTHODONTIC TREATMENT PLANNING FOR THE 21<sup>ST</sup> CENTURY", The 86<sup>th</sup> Annual Meeting of the Southern Association of Orthodontists; The Homestead, Virginia , September 26, 2009
157. "CONTEMPORARY ORTHODONTICS-THE ROLE OF APPEARANCE & ESTHETICS IN DIAGNOSIS AND TREATMENT PLANNING". The Iowa Orthodontic Alumni Association annual meeting, Iowa City, Iowa, September 20-21, 2009.
158. "CONTEMPORARY ORTHODONTICS-THE ROLE OF APPEARANCE & ESTHETICS IN DIAGNOSIS AND TREATMENT PLANNING". The Capetown 2009 Conference, Capetown, South Africa, July 31, August 1-2, 2009.
159. "ESTHETICS FOR A LIFETIME" AND "SYNCHRONIZATION OF THE ESTHETIC TEAM FOR MAXIMUM RESULTS". The 31<sup>st</sup> Annual meeting of the College of Diplomates of the American Board of Orthodontics, Kohler, Wisconsin, July 18 & 21, 2009.
160. "TREATMENT CHALLENGES OF MISSING AND MALFORMED TEETH IN THE ESTHETIC ZONE" AND "CONTEMPORARY TECHNOLOGY IN ORTHODONTICS", THE 104<sup>TH</sup> ANNUAL MEETING OF THE AMERICAN ASSOCIATION OF ORTHODONTISTS, BOSTON, MA, MAY 5, 2009.
161. "CONTEMPORARY ORTHODONTICS" The 1<sup>st</sup> Joint meeting of the British Society of Orthodontists and the Irish Orthodontic Society, Dublin, Ireland. April 25, 2009.
162. "ORTHODONTICS AND ESTHETICS" The Annual Meeting of the Louisiana Association of Orthodontists. New Orleans, Louisiana April 4, 2009.
163. "ORTHODONTICS AND ESTHETICS" The Annual Meeting of the New York Society of Orthodontists. Saratoga, New York. March 27, 2009.
164. "ORTHODONTICS IN THE ADULT" Barcelona, Spain, March 21, 2009



165. "REAL WORLD TECHNOLOGIES" The OrthoTrac User's meeting; Atlanta, GA, March 13, 2009.
166. "ORTHODONTICS AND ESTHETICS" AND "CONDYLAR RESORPTION-A SYSTEMATIC APPROACH" The Annual Meeting of the Medical College of Virginia Orthodontic and Orthodontic Education and Research Foundation. Richmond, VA. March 2-3, 2009.
167. "THE AGING FACE AND HOW THE DENTAL TEAM CAN AFFECT ESTHETICS FOR A LIFETIME" The New York Academy of Dentistry, New York, New York; February 12, 2009.
168. "ESTHETICS FOR A LIFETIME" The Damon Forum, Phoenix, Arizona. January 22, 2009.
169. "NEW 3D IMAGING TECHNOLOGY" Angle Midwest meeting, Bonita Springs, FL; January 19, 2009.
170. "PRINCIPLES OF COSMETIC DENTISTRY AND ORTHODONTIC ENHANCEMENTS" The Birmingham District Dental Society, Birmingham Alabama, December 5, 2008.
171. "CURRENT CONCEPTS IN SMILE DESIGN & THEIR IMPACT ON CLINICAL ORTHODONTICS" The University of Michigan Alumni Association. Ann Arbor, Michigan. October  
a. 24, 2008.
172. Pre-Congress Course- "CURRENT CONCEPTS IN FACIAL APPEARANCE AND THE SMILE-THEIR IMPACT ON CLINICAL ORTHODONTICS" and Congress lecture "The Soft Tissue Paradigm and Smile Dynamics". The PanHellenic Orthodontic Congress, Athens, Greece. September 27-28, 2008
173. Pre-Congress course- "CURRENT CONCEPTS IN FACIAL APPEARANCE AND THE SMILE-THEIR IMPACT ON CLINICAL ORTHODONTICS" and Congress lecture "TEMPORARY ANCHORAGE DEVICES" The 7<sup>th</sup> International Orthodontic Congress, Santiago Chile. August 27-28, 2008.
174. "REAL WORLD TECHNOLOGY IN ORTHODONTICS" The Gorman Institute, Chicago, Illinois. September 18, 2008.
175. "THE AGING FACE" and "A NEW FACE ON INTERDISCIPLINARY DENTISTRY". The annual meeting of the American Academy of Cosmetic Dentistry. New Orleans, LA, May 8-9, 2008.
176. "ORTHOGNATHIC SURGERY-A 30 YEAR PERSPECTIVE" The McCallum Society of Oral Surgeons, Orange Beach, Alabama July 18, 2008.
177. "THE AGING FACE-HOW THE DENTAL TEAM ENHANCES FACIAL AND DENTAL ESTHETICS FOR A LIFETIME" The 33<sup>rd</sup> Annual meeting of the American Academy of Esthetic Dentistry, Laguna Niguel, CA August 8, 2008.
178. "THE AGING FACE", "THE EXPANDED ESTHETIC VISION", and "PRINCIPLES OF COSMETIC DENTISTRY IN ORTHODONTICS". The California Dental meeting, Spring Scientific Session, May 3-4, 2008.
179. "PRINCIPLES IN COSMETIC DENTISTRY: WHAT YOU AND YOUR ORTHODONTIST SHOULD KNOW", "GROWTH, MATURATION & AGING: TREATMENT TIMING IS CRITICAL TO FACIAL ESTHETICS", "CONCEPTS IN SMILE ESTHETICS"; The Hinman Dental Meeting, Atlanta, GA, March 13-15, 2008
180. **"THE STEVEN SEWARD MEMORIAL LECTURE- THE SYSTEMATIC CLINICAL EXAMINATION- MACROESTHETICS-MINIESTHETICS-MICROESTHETICS" AND "NEW TECHNOLOGIES-SOFT TISSUE LASERS & CAD/CAM BRACES" AND "THE AUSTRALIAN SOCIETY OF ORTHODONTISTS**, Gold Coast, Australia, March 4-5, 2008.
181. "THE AGING FACE-HOW THE DENTAL TEAM ENHANCES FACIAL AND DENTAL ESTHETICS FOR A LIFETIME" The 143<sup>rd</sup> Chicago Midwinter Meeting, Chicago, IL; February 8, 2008.
182. INFORMATION & RECORD SECURITY & THE IMPACT OF DIGITALIZATION OF THE ORTHODONTIC OFFICE "and "THE UTILIZATION OF INTERNET EDUCATION TO IMPROVE PATIENT CARE"; The Technology Conference of the American Association of Orthodontists; Las Vegas, Nevada, February 8, 2008.
183. "PRINCIPLES OF COSMETIC DENTISTRY AND ORTHODONTICS" The Midwest Component of the Edward H. Angle Society, Kona Hawaii, February 4, 2008.

184. "A NEW FACE ON INTERDISCIPLINARY TREATMENT" The Birmingham District Dental Society, Birmingham, Alabama January 18, 2008.
185. "CONTEMPORARY ESTHETIC ORTHODONTICS FOR THE PEDIATRIC DENTIST" The Southeastern Society of Pediatric Dentistry, Atlanta, GA January 11-13, 2008.
186. "ORTHODONTICS and ESTHETICS" The Illinois Society of Orthodontists, Chicago, Illinois; December 10, 2007.
187. "CURRENT CONCEPTS IN FACIAL APPEARANCE AND THE SMILE-THEIR IMPACT ON CLINICAL ORTHODONTICS" The 6<sup>th</sup> Biennial meeting of the Brazilian orthodontic Society, Gramado, Brazil; October 13, 2007.
188. "ESTHETIC CONCEPTS IN ORTHODONTICS" Annual Session of the Middle Atlantic Society of Orthodontics, Philadelphia, Pennsylvania. September 14, 2007.
189. "INTERDISCIPLINARY ORTHODONTICS AND COSMETIC DENTISTRY: FOR ADULTS ONLY?" The 107<sup>th</sup> Annual meeting of the American Association of Orthodontists., Seattle WA; May 21, 2007
190. "CONTEMPORARY TRENDS AND TECHNOLOGY IN ORTHODONTICS. Orthodontic Staff/ Lifestyles Lecture. The 107<sup>th</sup> Annual meeting of the American Association of Orthodontists., Seattle WA; May 21, 2007
191. "CONTEMPORARY ORTHODONTICS-THE ROLE OF APPEARANCE AND ESTHETICS IN DIAGNOSIS AND TREATMENT PLANNING", Congress of The Portuguese Orthodontic Society; Lisbon ,Portugal, April 19-20, 2007
192. "CONTEMPORARY ORTHODONTICS-THE ROLE OF APPEARANCE AND ESTHETICS IN DIAGNOSIS AND TREATMENT PLANNING", Belgian Orthodontic Society, Leuven, Belgium, April 17, 2007.
193. "TEMPORARY ANCHORAGE DEVICES IN ORTHODONTIC APPLICATIONS-UNDERRATED OR OVERRATED?" The 21<sup>st</sup> New-Conn Growth Symposium meeting, White Plains, New York, April 14, 2007.
194. "SIMULTANEOUS RHINOPLASTY AND ORTHOGNATHIC SURGERY-20 YEARS EXPERIENCE" ACMF Orthognathic Symposia; Washington, DC, March 24, 2007.
195. "ORTHODONTICS and ESTHETICS" The Annual Meeting of the Nebraska Society of Orthodontists. Lincoln, Nebraska, March 16, 2007.
196. "TECHNOLOGY IN ORTHODONTIC PRACTICE-FROM ANALOG AND DIGITAL AND BEYOND", Kodak Orthodontic User's Meeting, Atlanta, GA. March 9, 2007.
197. "TECHNOLOGY-TYING IT ALL TOGETHER" The Gorman Institute, Orlando FL, February 24, 2007
198. "DENTOFACIAL ESTHETICS-A new Face on Interdisciplinary Treatment" The special AAO Interdisciplinary Conference, Indian Wells, CA. February 9, 2007.
199. "TEMPORARY ANCHORAGE DEVICES-POTENTIAL AND CURRENT REALITY" Annual meeting of the Midwest Component of the Edward H. Angle Society; Palm Springs, CA. January 29, 2007.
200. "CURRENT CONCEPTS IN ORTHODONTIC DIAGNOSIS AND TREATMENT PLANNING", The annual meeting of the Alumni Association of the University of Western Ontario, London Ontario, November 10, 2006
201. "TOOTH PROPORTION AND PROPORTIONALITY: HOW RECOGNITION AND TREATMENT CAN RESULT IN BETTER SMILES" The annual meeting of the Southern Association of Orthodontists, Destin, FL. October 28, 2006.
202. Multiple Interdisciplinary topics-The Multi-Disciplinary Academy, Flinders Range, Australia, October 17-19, 2006.
203. "PRINCIPLES OF COSMETIC DENTISTRY-APPLICATIONS IN ORTHODONTICS" University of Sydney, Sydney Australia, October 11, 2006.
204. "ESTHETIC PRINCIPLES OF CONTEMPORARY ORTHODONTICS-A HANDS-ON COURSE" The Annual meeting of the Midwest Society of Orthodontists, St. Louis, MO. September 15, 2006.

205. "NONSURGICAL TREATMENT OF SKELETAL DEFORMITY", the McCallum Society of Oral and Maxillofacial Surgeons, Orange Beach, Alabama, July 27, 2006.
206. "CURRENT CONCEPTS IN ORTHODONTIC DIAGNOSIS AND TREATMENT PLANNING", The Colorado Association of Orthodontists, Snowmass, CO; June 24, 2006.
207. "THE AGING FACE-HOW THE DENTAL TEAM ENHANCES FACIAL AND DENTAL ESTHETICS FOR A LIFETIME", The 137<sup>th</sup> annual meeting of the Alabama Dental Association, Orange Beach, Alabama, June 17, 2006.
208. "CONTEMPORARY ORTHODONTICS AND ORTHOGNATHIC SURGERY AND FUTURE TRENDS" The Orthodontic Association of Thailand, Bangkok, Thailand, May 29-30, 2006.
209. "ENHANCEMENT OF ORTHODONTIC OUTCOMES: PUTTING A NEW FACE ON AN OLD CONCEPT" The 46<sup>th</sup> John Valentine Mershon Lecture, The 106<sup>th</sup> Annual Session of the American Association of Orthodontists meeting, Las Vegas, Nevada; May 6, 2006.
210. "THE AGING FACE-HOW THE DENTAL TEAM ENHANCES FACIAL AND DENTAL ESTHETICS FOR A LIFETIME", The Hinman Meeting, Atlanta, Georgia, March 23 and 24, 2006.
211. "COSMETIC DENTAL PRINCIPLES IN ORTHODONTIC TREATMENT" The Ann Arbor Study Club, Ann Arbor, Michigan, March 21, 2006.
212. "WHAT'S NEW IN TECHNOLOGY", The Kodak Dental Systems User's meeting, Atlanta, Georgia, March 17, 2006.
213. "CONTEMPORARY ORTHODONTICS-THE ROLE OF APPEARANCE & ESTHETICS IN DIAGNOSIS AND TREATMENT PLANNING", Pacific Coast Society of Orthodontists, San Ramone, California; March 10, 2006.
214. "CONDYLAR RESORPTION" AND "CONTEMPORARY CONCEPTS IN SMILE ANALYSIS" Utah State Orthodontic Association, Salt Lake City, Utah, February 10, 2006
215. "CONTEMPORARY ORTHODONTIC TREATMENT PLANNING WITH AN EMPHASIS ON APPEARANCE AND ESTHETICS". North Carolina Association of Orthodontists, Research Triangle Park, NC, February 3-4, 2006
216. "CONTEMPORARY ORTHODONTIC TREATMENT PLANNING WITH AN EMPHASIS ON APPEARANCE AND ESTHETICS". 26<sup>th</sup> Annual Congress of the Nuevo Leon College of Orthodontics and Dentofacial Orthopedics, Monterrey, Mexico, December 26-28.
217. "MULTIDISCIPLINARY TREATMENT IN ESTHETICS AND DENTISTRY" New York University, New York, New York. November 5, 2005.
218. "ESTHETICS IN ORTHODONTICS" The 6<sup>th</sup> International Orthodontic Congress, Paris, France, September 12, 2005
219. "CONTEMPORARY ORTHODONTICS AND THE PROGRESSION TO SOFT TISSUE BASED DIAGNOSIS AND TREATMENT PLANNING" The 81<sup>st</sup> annual meeting of the European Orthodontic Society, Amsterdam, Netherlands, June 5, 2005.
220. "PRINCIPLES OF COSMETIC DENTISTRY AND THEIR APPLICATION TO ORTHODONTICS" and "TECHNOLOGY-HOW TO TAKE THE JUMBLE OUT OF TECHNOLOGY AND STILL SEE PATIENTS (Staff lecture)" The 105<sup>th</sup> Annual Meeting of the American Association of Orthodontists, San Francisco, CA, May 22-23, 2005.
221. "THE BUZZ ABOUT ESTHETICS- WHAT IS IT ALL ABOUT?" The Jarabak Lecture, University of Michigan, Ann Arbor, Michigan, April 29, 2005.
222. "THE NEW ESTHETIC PARADIGM AND ESTHETIC INFLUENCES IN TREATMENT PLANNING AND FINISHING" and "INTERDISCIPLINARY TREATMENT TO IMPROVE ESTHETICS" The 40<sup>th</sup> annual New-Conn meeting, White Plains, New York, April 15, 2005.
223. "EXTREME ESTHETICS-THE INTERDISCIPLINARY APPROACH OF ORTHODONTICS, ORAL SURGERY, AND FACIAL PLASTIC SURGERY" The Gorman Institute, Las Vegas, Nevada; February 19, 2005.

224. "APPEARANCE, ORTHODONTICS, AND ESTHETIC CONCEPTS IN ORTHODONTICS", The annual meeting of the Georgia Association of Orthodontists, Lake Oconee, GA; February 11-12, 2005.
225. "NEW APPROACHES TO ORTHODONTIC PRACTICE AND STAFF RELATIONS" and "CONTEMPORARY ORTHODONTIC/SURGICAL TREATMENT" The Annual Meeting of the Oklahoma Orthodontic Association, Tulsa Oklahoma, January 14, 2005.
226. "APPEARANCE, ORTHODONTICS AND ESTHETIC CONCEPTS IN ORTHODONTICS" 37<sup>th</sup> Annual meeting of the Korean Orthodontic Association, Seoul, South Korea, November 5, 2004.
227. "ORTHODONTICS, ESTHETICS, and INTERDISCIPLINARY TREATMENT" Yonsei University, Seoul, South Korea, November 3, 2004.
228. "ORTHODONTICS, ESTHETICS, and INTERDISCIPLINARY TREATMENT" Seoul National University, Seoul, South Korea, November 2, 2004.
229. "APPEARANCE, ORTHODONTICS AND ESTHETIC CONCEPTS IN ORTHODONTICS" The Annual Meeting of the University of Toronto Orthodontic Alumni Association, Toronto, Canada, October 14, 2004
230. "APPEARANCE, ORTHODONTICS AND ESTHETIC CONCEPTS IN ORTHODONTICS" The 45<sup>th</sup> Annual Meeting of the University of North Carolina Orthodontic Alumni Association, Research Triangle, North Carolina. September 25, 2004
231. "FACIAL CONSIDERATIONS IN THE ESTHETIC TREATMENT OF THE ADULT ORTHODONTIC PATIENT" The 25<sup>th</sup> annual meeting of the College of Diplomates of the American Board of Orthodontics, Sun River, Oregon, July 20, 2004.
232. "CONTEMPORARY PRINCIPLES OF DIAGNOSIS AND TREATMENT PLANNING IN ORTHOGNATHIC SURGERY" The Annual meeting of the McCallum Society, Orange Beach, AL; July 17, 2004.
233. "APPEARANCE, ORTHODONTICS AND ESTHETIC CONCEPTS IN ORTHODONTICS" The Annual Meeting of the Virginia Association of Orthodontists, Virginia Beach, VA, June 28-June 29, 1996
234. "THE CLINICAL APPLICATION OF THE SOFT TISSUE PARADIGM" The American Association of Orthodontists, Orlando Florida, May 4, 2004.
235. "THE SOFT TISSUE PARADIGM AND CLINICAL ORTHODONTICS" The Missouri Association of Orthodontists. St Louis MO, March 16-17, 2004.
236. "CONTEMPORARY TRENDS IN ORTHODONTIC DIAGNOSIS AND TREATMENT PLANNING" The Charles S. Burstone Lecture, The University of Connecticut, Hartford, CN, April 14, 2004
237. "APPEARANCE, ESTHETICS, AND ORTHODONTICS" Societa' Italiana Do Ortodonzia (S.I.D.O.) Cortina de Ampezzo, Italy: March 27, 2004.
238. "THE INCORPORATION OF SOFT TISSUE LASERS INTO CLINICAL ORTHODONTIC PRACTICE" The Insiders meeting, Ormco Corporation, Sun Valley, Idaho, March 13, 2004.
239. "AN UPDATE ON THE PRACTICE WORKS ORTHO-IMAGING PRODUCT" The Practice Works User's Meeting, Atlanta, Georgia, March 12, 2004.
240. "THE SOFT TISSUE PARADIGM AND CLINICAL ORTHODONTICS", the Annual Meeting of the Ohio State Alumni Foundation. Dublin, Ohio, March 5-6, 2004.
241. "THE BENEFITS OF A PATIENT SPECIFIC APPLIANCE" The Gorman Institute, New Orleans, Louisiana, February 13, 2004.
242. "SOFT TISSUE SURGERY CONCOMITANT WITH ORTHOGNATHIC SURGERY" and " SOFT TISSUE ADJUNCTIVE SURGERY IN CASES WHERE ORTHOGNATHIC SURGERY IS NOT AN OPTION" The joint meeting of the American Association of Orthodontists and the American Association of Oral and Maxillofacial Surgeons, Palm Springs, California, February 7-8, 2004.

243. "THE INCORPORATION OF SOFT TISSUE LASERS IN CLINICAL ORTHODONTICS", The Annual meeting of the Midwest component of the Edward H. Angle Society., Key Biscayne, Florida. January 27, 2004
244. "CURRENT CONCEPTS IN ORTHODONTICS AND APPEARANCE" The annual meeting of the Puerto Rican Association of Orthodontists, San Juan , Puerto Rico, December 5, 2003.
245. "TECHNOLOGY AND TREATMENT PLANNING" The 144th annual meeting of the American Dental Association, San Francisco, CA. October 25,2003
246. "ORTHODONTICS AND FACIAL APPEARANCE-INTERDISCIPLINARY TREATMENT BEYOND TEETH" The 82<sup>nd</sup> annual meeting of the Southern Association of Orthodontists, Tampa, Florida, October 4, 2003.
247. "THE AGING FACE"(The Joe Peake Memorial Lecture) and " THE CONTEMPORARY ORTHODONTIC PRACTICE:JUGGLING MANAGEMENT OF YOUR PRACTICE AND ALL THAT NEW TECHNOLOGY AND STILL TREATING PATIENTS" The joint meeting of the Great Lakes Association of Orthodontists, the Midwestern Society of Orthodontists, and The Southwestern Society of Orthodontists; New Orleans , LA, September 20, 2003.
248. "THE ART OF THE SMILE...AND THE APPLICATION OF TECHNOLOGY TO ART" The 35<sup>th</sup> Biennial Meeting of the Edward H. Angle Society, Big Cedar Lodge, Branson MO, September 16,2003.
249. "CONDYLAR RESORPTION" and "THE ART OF THE SMILE" The annual meeting of the New Zealand Association of Orthodontists, Wellington, New Zealand. September 4-5, 2003.
250. "CURRENT CONCEPTS IN ORTHODONTICS AND APPEARANCE" The Sydney Interdisciplinary Study Club, Sydney, Australia, September 2, 2003.
251. "CURRENT CONCEPTS IN ORTHODONTICS AND APPEARANCE" The Gold Coast Interdisciplinary Study Club, Gold Coast, Australia, August 26, 2003.
252. "THE FACE AS DETERMINANT OF CHOICE" The Annual meeting of the Charles A. McCallum Society, Orange Beach Alabama, July 20, 2003.
253. "CURRENT CONCEPTS IN ORTHODONTICS AND ESTHETICS" The 103<sup>rd</sup> meeting of the American Association of Orthodontists- Neighbor Island Program, General Doctors Sessions May 7,8, 9,;Hawaii Islands 2003.
254. "APPEARANCE DRIVEN ORTHODONTIC DIAGNOSIS AND TREATMENT PLANNING" The Big Apple Dental Meeting, Tarrytown, New York, March 26, 2003
255. "AN UPDATE ON THE PRACTICE WORKS ORTHO-IMAGING PRODUCT" The Practice Works User's Meeting, Atlanta, Georgia, March 15, 2003.
256. "APPEARANCE DRIVEN ORTHODONTIC DIAGNOSIS AND TREATMENT PLANNING" The Irish Orthodontic Society, Tullamore, Offaly, Ireland, March 7-8, 2003
257. "APPEARANCE DRIVEN ORTHODONTIC DIAGNOSIS AND TREATMENT PLANNING" The Pacific Coast Study Group, Palm Springs, California, February 28-March 1, 2003
258. "THE ART AND SCIENCE OF APPEARANCE AND ESTHETICS" The 30<sup>th</sup> annual Moyer's symposium, Ann Arbor, Michigan, February 23, 2003.
259. "APPEARANCE DRIVEN ORTHODONTIC DIAGNOSIS AND TREATMENT PLANNING" The Cleveland Orthodontic Society, Cleveland, Ohio, January 24, 2003.
260. "ESTHETICS OF THE SMILE-SCIENCE OR ART?" The Annual meeting of the Midwest Component of the Edward H. Angle Society, Grand Cayman Island, January 21,2003.
261. "APPEARANCE DRIVEN ORTHODONTIC DIAGNOSIS AND TREATMENT PLANNING" The Illinois Orthodontic Society, Chicago, Illinois, November 4, 2002.
262. "INTERDISCIPLINARY AESTHETIC CARE-THE DENTAL, ORTHODONTIC, AND SURGICAL CONNECTION" Leibniz, Austria, October 19, 2002.

263. "APPEARANCE DRIVEN ORTHODONTIC DIAGNOSIS AND TREATMENT PLANNING" The University of Graz, Graz, Austria. October 17-18, 2002.
264. "POWERPOINT PRESENTATIONS" and "PATIENT SPECIFIC ORTHODONTIC APPLIANCES" The Technology Conference, University of North Carolina, Raleigh, North Carolina, September 27-28, 2002.
265. "POWERPOINT PRESENTATIONS" The University of Michigan, Ann Arbor, MI. September 13, 2002.
266. "APPEARANCE DRIVEN ORTHODONTIC DIAGNOSIS AND TREATMENT PLANNING" The joint meeting of the Orthodontic Alumni of the University of Kentucky and University of Louisville. Louisville, KY, August 30, 2002.
267. "ESTHETIC ORTHODONTICS-SURGICAL AND NONSURGICAL" The European Society of Lingual Orthodontists. Berlin, Germany June 21, 2002.
268. "THE SOFT TISSUE PARADIGM" AND "UTILIZATION OF COMPUTERS IN ESTHETIC ORTHODONTIC TREATMENT PLANNING" Pre-Congress course with Dr William R. Proffit. The European Society of Lingual Orthodontists. Berlin, Germany June 19, 2002.
269. "APPEARANCE DRIVEN ORTHODONTIC DIAGNOSIS AND TREATMENT PLANNING" The annual meeting of the Alabama Association of Orthodontists. Orange Beach, AL, June 14, 2002.
270. "TECHNOLOGY IN ORTHODONTIC PRACTICE – WHAT IS APPROPRIATE IN THE USE OF TECHNOLOGY IN OUR PRACTICES?" and "INCORPORATING DIGITAL INTO YOUR PRACTICE" Scientific sessions. "POWERPOINT PRESENTATIONS" and "THE AGING FACE AND ITS IMPACT ON ORTHODONTIC TREATMENT PLANNING" Staff sessions. The Annual Session of the American Association of Orthodontists; Philadelphia, PA. May 5-6, 2002.
271. "APPEARANCE DRIVEN ORTHODONTIC DIAGNOSIS AND TREATMENT PLANNING" The annual meeting of the Indiana Association of Orthodontists. Indianapolis, IN, April 18, 2002.
272. "CONDYLAR RESORPTION" The University of Indiana Department of Orthodontics. Indianapolis, IN. April 17, 2002.
273. "INTEGRATING INFORMATION TECHNOLOGY INTO ROUTINE ORTHODONTIC PRACTICE" The 29<sup>th</sup> Annual Moyer's Symposium, Ann Arbor, Michigan. February 23, 2002
274. "THE ORTHODONTIC EXPERIENCE SOUTHERN STYLE" The Gorman Institute, Orlando, FL. February 2, 2002.
275. "TREATMENT OF CLASS III MAXILLARY DEFICIENCY WITH MAXILLARY PROTRACTION-A MULTI-SITE STUDY" The annual meeting of the Midwest Component of the Edwards H. Angle Society. Scottsdale, Arizona. February 6, 2002.
276. "CONDYLAR RESORPTION" and "APPEARANCE DRIVEN ORTHODONTIC TREATMENT PLANNING", the San Diego Society for the Study of Orthodontics. San Diego, CA. January 11, 2002.
277. "CONDYLAR RESORPTION" and "APPEARANCE DRIVEN ORTHODONTIC TREATMENT PLANNING" The Greater Philadelphia Orthodontic Society, Philadelphia, PA, November 7, 2001
278. "CONDYLAR RESORPTION" and "TREATMENT OF CLASS III MALOCCLUSION IN ADOLESCENTS", The Southern Society of Orthodontists, Orlando, FL, October 12, 2001.
279. "CONTEMPORARY TREATMENT PLANNING FOR ORTHOGNATHIC SURGERY" The McCallum Society of Orthodontists, Fort Morgan, Alabama, July 16, 2001.
280. "APPEARANCE DRIVEN DIAGNOSIS AND TREATMENT PLANNING" The Australian Society of Orthodontists- New South Wales Branch. Sydney, Australia. June 7-8, 2001.
281. "APPEARANCE DRIVEN DIAGNOSIS AND TREATMENT PLANNING" The Australian Society of Orthodontists- Victoria Branch. Melbourne, Australia. June 4, 2001.
282. "CURRENT CONCEPTS IN ARCH FORM AND MECHANOTHERAPY" Auckland, New Zealand. June 1, 2001.

283. "POWER POINT PRESENTATIONS" American Association of Orthodontists, Toronto, Canada, May 6, 2001.
284. "APPEARANCE DRIVEN ORTHODONTICS-THE NEW SOFT TISSUE PARADIGM" The Salzman Lecture, American Association of Orthodontists, Toronto, Canada, May 6, 2001.
285. "CONTEMPORARY ORTHODONTIC/SURGICAL INTERDISCIPLINARY CARE-AN EMPHASIS ON AVOIDING SURGICAL FAILURES" The Fourth Joint Meeting of the Midwestern and Southwestern Components of The American Association of Oral and Maxillofacial Surgeons. Phoenix, AZ, April 21, 2001
286. "THE SOFT TISSUE ENVELOPE" The 18<sup>th</sup> Biennial Meeting of the New-Conn Study Club, White Plains, New York. April 19, 2001.
287. "COMPUTER ASSISTED PREDICTIONS FOR ORTHOGNATHIC AND MAXILLOFACIAL COSMETIC SURGERY" Orthognathic Surgery and Orthodontics-The Third Millennium (UNC Symposium) Atlanta, GA, April 7, 2001.
288. "FACIAL AGING, MATURATION AND AGING AND IT'S IMPACT ON ORTHODONTIC TREATMENT PLANNING" The Progressive Study Club, Lake Lanier, GA, April 6, 2001.
289. "THE E-OFFICE" University of Southern California Department of Orthodontics Alumni meeting, Los Angeles, CA. March 3, 2001.
290. "APPEARANCE AND ORTHODONTICS" The Annual meeting of The Century Club (University of Texas Orthodontic Alumni), Houston, Texas; February 16, 2001.
291. "ARE YOU THERE, DAVE?" The Gorman Institute (Ormco Corporation) Las Vegas, Nevada, February 9, 2001.
292. "CONTEMPORARY ORTHODONTICS" The annual meeting of the University of Alabama School of Dentistry Alumni Association meeting, Birmingham, AL. February 2, 2001.
293. "HOW TO USE POWERPOINT" AND "THE EDUCATIONAL CRISIS IN ORTHODONTICS". The annual meeting of the Midwest Component of the Edward H. Angle Society. Naples FL, January 29, 2001.
294. "THE RE-EMERGING SOFT TISSUE PARADIGM" and "COMPUTERS FOR INFORMATION MANAGEMENT and DIAGNOSTICS" and "ESTHETIC ORTHODONTICS AND ORTHOGNATHICS" The Annual meeting of the Swiss Orthodontic Society. Luzerne, Switzerland. November 9-10, 2000.
295. "THE AGING FACE" and "CONDYLAR RESORPTION-LOCALIZED AND SYSTEMIC ETIOLOGIES" The 48<sup>th</sup> annual meeting of the Middle Atlantic Society of Orthodontists. Washington, D.C. October 21-22, 2000.
296. "SOFT TISSUE MATURATION AND AGING: IMPLICATIONS IN ADOLESCENT AND ADULT TREATMENT PLANNING" The 64<sup>th</sup> annual session of the Pacific Coast Society of Orthodontists, Reno, Nevada. October 2, 2000.
297. "POWERPOINT PRESENTATIONS" The annual meeting of the Southern Association of Orthodontists. Boca Raton, Florida. September 20, 2000.
298. "CONTEMPORARY ORTHOGNATHICS" The Spokane Surgical-Orthodontic Study Club. Spokane, Washington. September 15, 2000.
299. "EARLY PROTRACTION HEADGEAR THERAPY AND STUDIES" 21<sup>st</sup> annual meeting of the College of Diplomates of the American Board of Orthodontics, Halifax, Nova Scotia, Canada. July 17, 2000
300. "ESTHETIC ORTHODONTICS" "The 1<sup>st</sup> Brazilian International Congress, Orto Rio Premium Rio de Janeiro, Brazil. July 8-10, 2000.
301. "FUTURE TECHNOLOGIES AND ORTHODONTIC PRACTICE", The 100<sup>th</sup> Annual meeting of the American Association of Orthodontists, Chicago Illinois. April 30, 2000.
302. "ESTHETICS AND ORTHOGNATHIC SURGERY", The 100<sup>th</sup> Annual meeting of the American Association of Orthodontists, Chicago Illinois. April 30, 2000.

303. "FACIAL IMAGING-PRESENT AND FUTURE", The 100<sup>th</sup> Annual meeting of the American Association of Orthodontists, Chicago Illinois. March 1, 2000.
304. "SOFTENING THE HARD ANGLE OF DIAGNOSIS" The Gorman Institute (Ormco Corporation) Orlando, FL, February 12, 2000.
305. "FACIAL IMAGING", the joint meeting of the American Association of Orthodontists, and the American Association of Oral and Maxillofacial Surgeons. Orlando, FL, February 4, 2000
306. "THE AGING FACE" The Midwest Component of the Edward H. Angle Society of Orthodontists, St. Thomas, VI, January 16, 2000.
307. "HOW TO USE POWERPOINT" Joint presentation with Dr. James McNamara, The Midwest Component of the Edward H. Angle Society of Orthodontists, St. Thomas, VI, January 16, 2000
308. "ADVANCES IN COMPUTER IMAGING" The 77<sup>th</sup> Annual Session of the Northeastern Society of Orthodontists. Boston, Massachusetts, December 5, 1999.
309. "CONDYLAR RESORPTION-ETIOLOGIES AND TREATMENT" The 77<sup>th</sup> annual session of the Southern Association of Orthodontists, Mobile, Alabama, November 7, 1999.
310. "ESTHETIC ORTHODONTICS AND ORTHOGNATHIC SURGERY". The Cleveland Association of Advanced Dentistry. Cleveland, Ohio, October 1-2, 1999
311. "CURRENT TRENDS IN PLANNING AND TREATING ORTHOGNATHIC PATIENTS" The McCallum Society of Oral and Maxillofacial Surgeons. Orange Beach, July 16, 1999.
312. "THE FACE AS DETERMINANT OF TREATMENT CHOICE" Keynote lecture at the 75<sup>th</sup> Congress of the European Orthodontic Society, Strasbourg, France. June 23, 1999.
313. "ESTHETICS IN CONTEMPORARY ORTHODONTICS AND ORTHOGNATHIC SURGERY" Societa' Italiana Do Ortodonzia (S.I.D.O.) Capri, Italy: May 28, 1999.
314. "CONTEMPORARY ESTHETIC ORTHODONTICS AND ORTHOGNATHIC SURGERY" The 99<sup>th</sup> Annual meeting of the American Association of Orthodontists, San Diego, California: May 17, 1999.
315. "CONTEMPORARY IMAGING IN ORTHODONTIC PRACTICE" The University of North Carolina, CE course sponsored by the UNC Department of Orthodontics, Chapel Hill, N.C. April 24, 1999.
316. "GROWTH, MATURATION AND AGING OF THE FACE" The Quebec Society of Orthodontists, Montreal, Canada, March 26, 1999.
317. "COMPUTERS AND THE TOTAL OFFICE MANAGEMENT PICTURE" OrthoTrac Users meeting, Atlanta, Georgia March 12, 1999.
318. "CONTEMPORARY ORTHODONTIC PRACTICE-A FOCUS ON ESTHETICS, TREATMENT PLANNING, AND INFORMATION MANAGEMENT" International Symposium celebrating the 50<sup>th</sup> anniversary of the state of Israel, sponsored by the Orthodontic Society of Israel, Eilat, Israel, November 1998.
319. "CONTEMPORARY ORTHODONTIC PRACTICE-A FOCUS ON ESTHETICS, TREATMENT PLANNING, AND INFORMATION MANAGEMENT" "The 62<sup>nd</sup> annual meeting of the Pacific Coast Society of Orthodontists, Palm Springs, CA. November 1, 1998.
320. "FACIAL ESTHETICS: THE DETERMINANT FOR TREATMENT CHOICE" Joint annual session of the Middle Atlantic Society of Orthodontists and the Great Lakes Association of Orthodontists, Bermuda, October 1998
321. "CONTEMPORARY ORTHODONTIC PRACTICE-A FOCUS ON ESTHETICS, TREATMENT PLANNING, AND INFORMATION MANAGEMENT" The Cleveland Association of Orthodontists. Cleveland, Ohio. September 2, 1998.
322. "COMPUTER TECHNOLOGY FOR NOVICES AND NERDS" The University of Michigan, Department of Orthodontics, Ann Arbor, Michigan; September 17-18, 1998.



323. "THE CUTTING EDGE IN ORTHODONTICS-ESTHETICS" International Symposium at St. Louis University Department of Orthodontics. St. Louis, Missouri, July 25, 1998.
324. "CONDYLAR RESORPTION" and "GROWTH, MATURATION, AND AGING OF THE FACE" The annual meeting of the Baylor Orthodontic Alumni. San Antonio, Texas, June 19-20, 1998.
325. "THE NEW PATIENT PROCESS FOR THE 21<sup>ST</sup> CENTURY" and "EFFICIENCIES IN PRACTICE" The 13<sup>th</sup> Annual East Coast Meeting of Progressive Concepts. Myrtle Beach, S.C., June 12-13, 1998.
326. "EFFECTIVE PRESENTATIONS USING *PowerPoint*" The 2<sup>nd</sup> Annual Technology Conference in conjunction with the 98<sup>th</sup> Annual meeting of the American Association of Orthodontists, Dallas, Texas: May 14, 1998.
327. "THE USE OF COMPUTERS FOR IMPROVING ORTHODONTIC PRACTICE EFFICIENCIES" The 2<sup>nd</sup> Annual Technology Conference in conjunction with the 98<sup>th</sup> Annual meeting of the American Association of Orthodontists, Dallas, Texas: May 15, 1998.
328. "COMPUTERS IN STREAMLING THE ORTHODONTIC OFFICE" The 2<sup>nd</sup> annual Technology Conference of the American Association of Orthodontists. Dallas, Texas, May 14, 1998.
329. "THE DIGITAL ORTHODONTIC OFFICE" Annual Session, The New Jersey Association of Orthodontists. Woodbridge, New Jersey, March 25, 1998.
330. "IMAGING AND COMMUNICATION" The National OrthoTrac Users Meeting, Atlanta, GA, March 6, 1998.
331. "CONTEMPORARY ORTHODONTIC PRACTICE-A FOCUS ON ESTHETICS, TREATMENT PLANNING, AND INFORMATION MANAGEMENT" The 38<sup>th</sup> Annual meeting of the Florida Association of Orthodontists, Tampa, Florida. March 1-2, 1998.
332. "THE DIAGNOSTIC APPLICATIONS OF VIDEOIMAGING IN ORTHODONTIC PRACTICE" The Gorman Institute (Ormco Corporation), Orlando, Florida. February 7, 1998.
333. "THE CHANGING PRACTICE ENVIRONMENT-DO WE JOIN, CHANGE, OR REMAIN THE SAME?" 8<sup>th</sup> International State of the Art Symposium, The Future of the Orthodontic Delivery System, University of Connecticut, Hartford, CN. January 30, 1998.
334. "ORTHODONTICS IN SLEEP APNEA", "TREATMENT OF CLASS III IN ADOLESCENTS", "CONDYLAR RESORPTION" "OPEN BITE TREATMENT" Southern Ontario Surgical Orthodontic Group, Windsor, Ontario, Canada. November 7-8, 1997.
335. "THE FACE: INTERDISCIPLINARY APPROACHES TO TREATMENT AND PLANNING" University of North Carolina Orthodontic Alumni sponsored meeting 2002. Research Triangle, North Carolina. October 11, 1997.
336. "CONDYLAR RESORPTION-LOCALIZED AND SYSTEMIC ETIOLOGIES" The 32<sup>nd</sup> Biennial Meeting of the Edward H. Angle Society of Orthodontists, Williamsburg, VA. September 23, 1997
337. "THE DIGITAL OFFICE" The Graduate Orthodontic Residents Program (GORP). Ohio State University, Columbus, Ohio. August 9, 1997.
338. "THE DIGITAL OFFICE" The University of Washington (Seattle) Alumni Meeting, Seattle, WA, July 27, 1997
339. "ESTHETIC ORTHODONTICS AND ORTHOGNATHICS" University of Indiana, Indianapolis, IN, June 27, 1997
340. "ESTHETIC ORTHODONTICS AND ORTHOGNATHICS" The 13<sup>th</sup> Annual Jarabak Lecture, The University of Michigan, Ann Arbor, MI, May 30, 1997
341. "COMPUTERS IN ORTHODONTICS-THE CLINICAL AND BUSINESS CONNECTIONS" 97<sup>th</sup> Annual meeting of the American Association of Orthodontists, Philadelphia, PA. May 1, 1997
342. "THE FACE AS THE DETERMINANT OF TREATMENT CHOICE" 97<sup>th</sup> Annual meeting of the American Association of Orthodontists, Philadelphia, PA. May 5, 1997
343. "WHAT SHOULD WE EXPECT AS OUR ORTHOGNATHIC CASES CONTINUE TO AGE?" 16<sup>th</sup> Biennial Growth Seminar, New-Conn Study Club, White Plains, New York. April 11, 1997

344. "IMAGING TECHNIQUES FOR DIAGNOSIS AND TREATMENT PLANNING OF PATIENTS WITH CRANIOFACIAL DEFORMITIES: USES AND LIMITATIONS" 54th Annual meeting of the American Cleft Palate and Craniofacial Association. New Orleans, LA. April 9, 1997.
345. "ORTHODONTICS AND ESTHETICS" The Toronto Orthodontic Club, Toronto, Canada. April 4, 1997.
346. "CONDYLAR RESORPTION-LOCAL AND SYSTEMIC ETIOLOGIES AND TREATMENT", The Midwest Component of The Edward H. Angle Society, Naples, Florida. February 12, 1997.
347. "DECISION 97-POSITIONING YOUR PRACTICE" The Gorman Institute, Ormco Corporation Symposium on practice development and management. Phoenix, Arizona. February 6, 1997.
348. "VIDEOPLANNING IN ESTHETIC ORTHODONTICS" Annual meeting of the Columbia Orthodontic Alumni Association. New York, New York. January 25, 1997.
349. "ORTHODONTICS AND ESTHETICS" Annual meeting of the Southern California Component of the Edward H. Angle Society, Pasadena, California. January 13, 1997.
350. "ORTHODONTICS AND ESTHETICS" Annual meeting of the Minnesota Association of Orthodontists, Minneapolis, Minnesota. January 10-11, 1997.
351. "SOFT TISSUE GROWTH AND ITS' CLINICAL IMPACT ON ADOLESCENT TREATMENT", The Joe D. Peak Memorial Lecture. "CONTEMPORARY ORTHODONTIC TREATMENT PLANNING" the 76th Annual session of the Southwest Association of Orthodontists, Austin, Texas. November 1-2, 1996
352. "THE SURGICAL CD-ROM" Insiders Meeting, Ormco Corporation, Cancun, Mexico. September 9, 1996
353. "ORTHODONTICS AND ESTHETICS" 35th Annual Meeting of the Virginia Association of Orthodontists, Virginia Beach, VA, June 30-July 1, 1996
354. "THE FACE AND INTERDISCIPLINARY TREATMENT" American Association of Orthodontics, 96th Annual Session, Denver, CO. May 13, 1996
355. "CONTEMPORARY ORTHOGNATHIC AND ORTHODONTIC TREATMENT" Joint meeting of the Georgia Association of Orthodontists and Georgia Association of Oral and Maxillofacial Surgery, Chateau' Elan, GA. April 19, 1996.
356. "SYSTEMATIC DENTOFACIAL EVALUATION AND TREATMENT PLANNING IN ORTHOGNATHIC SURGERY" University of Michigan Symposium on Orthognathic Surgery, Ann Arbor, Michigan. April 11-12, 1996.
357. "CONDYLAR RESORPTION" Alabama Dental Association Meeting, Park City, Utah. March 26, 1996.
358. "CONDYLAR RESORPTION" AND "ORTHODONTICS FOR THE SURGICAL TREATMENT OF SLEEP APNEA" **FACES** seminar, Beaver Creek, CO.
359. "SYSTEMATIC FACIAL ANALYSIS IN ORTHODONTICS" University of Southern California, 2-day Symposium, Los Angeles, CA. February 9-10, 1996.
360. "COORDINATION OF COMPUTERIZED DATABASING PROGRAMS AND VIDEOIMAGING IN ORTHODONTICS" Post-conference symposium in Maui, Hawaii. February 13-14, 1996.
361. "ORTHODONTICS AND ESTHETICS" Colorado Association of Orthodontists meeting in conjunction with the Denver Midwinter meeting, Denver, CO. December 13, 1996.
362. "TRENDS IN COMPUTERIZED ORTHOGNATHIC PLANNING" The Annual Meeting of the McCallum Society of Oral Surgeons, Perdido Beach, Alabama. August 12, 1995.
363. "CONTEMPORARY ORTHODONTIC TREATMENT PLANNING" 2-day course sponsored by Ormodent France; Paris, France. June 4 and 5, 1995.

364. "AN ORTHODONTIST LOOKS AT FACIAL ESTHETICS IN ORTHOGNATHIC CASES" 95th American Association of Orthodontists Annual Session and 4th International Orthodontic Congress. San Francisco, California. May 17, 1995.
365. "DATABASING PROGRAM AND CLINICAL EXAMS: INTEGRATION INTO FLOW CHARTS FOR DOCUMENTATION AND STREAMLINED TREATMENT PLANNING" 95th American Association of Orthodontists Annual Session and 4th International Orthodontic Congress. San Francisco, California. May 16th, 1995.
366. "LONG TERM RESPONSES TO ORTHOGNATHIC AND SOFT TISSUE SURGERY" 15th Biennial Growth Seminar, New-Conn Orthodontic Study Group, White Plains, New York. April 28, 1994.
367. "MAXILLOFACIAL REALIGNMENT" and "ORTHOGNATHIC INDICATIONS AND CONTRAINDICATIONS IN THE AGING PATIENT" Interdisciplinary Symposium on Rejuvenative Plastic Surgery of the Face, Neck, Scalp, and Nose, Birmingham, Alabama. April 2, 1995.
368. "FACES FOR BRACES" and "CONTEMPORARY ORTHOGNATHICS AND ORTHODONTICS-COORDINATION OF TREATMENT PLANNING, Alabama Dental Association, Breckenridge, Colorado, March 29, 1995.
369. "DIAGNOSIS AND TREATMENT PLANNING FOR ORTHOGNATHIC SURGICAL PATIENTS, ILLUSTRATING THE USE OF VIDEO IMAGING" and "TREATMENT OF LONG FACED PATIENTS, INCLUDING THE CORRECTION OF NASAL DEFORMITY", The Second Singapore International Orthodontic Congress, Singapore, Singapore, March 24, 1995.
370. "ORTHODONTICS AND ESTHETICS" Ohio State University Orthodontic Alumni Meeting, Columbus, Ohio, March 3-4, 1995
371. "WHY DID WE BECOME ORTHODONTISTS ANYWAY?" The Gorman Institute (Ormco Corporation), Palm Springs, California. January 31, 1995.
372. "ORTHODONTICS AND FACIAL ESTHETICS IN THE GROWING PATIENT" and "VIDEOCEPHALOMETRIC DIAGNOSIS AND TREATMENT PLANNING" Northeastern Society of Orthodontics Meeting 73rd Annual Meeting, New York City, New York. December 2-3, 1994.
373. "NAVIGATING THE GRAY ZONE" Two Day Symposium, University of Minnesota, Minneapolis, Minnesota. November 18 and 19, 1994.
374. "ORTHODONTICS WITH A CLINICAL EMPHASIS" Illinois Orthodontic Society, Chicago, Illinois. November 14, 1994.
375. "THE FACE AND INTERDISCIPLINARY TREATMENT" 73rd Annual Session of the Southern Association of Orthodontists. Charleston, South Carolina. November 7, 1994.
376. "BRACES AND FACES-HOW DO YOU GET TO THE RIGHT PLACES?" 73rd Annual Session of the Southern Association of Orthodontists. Spouses and Staff Session. Charleston, SC. November 7, 1994.
377. THE DONALD SPRING MEMORIAL LECTURE, Australian Society of Orthodontists Foundation, 2-day lecture and 2-day hands-on course on computerized video imaging. Sydney, Australia. October 8-11, 1994
378. "VIDEOIMAGING IN CLINICAL ORTHODONTIC PRACTICE" 26th Annual Meeting of the Louisiana Orthodontic Association, New Orleans, LA. August 27, 1994.
379. "VIDEOIMAGING IN ORTHODONTICS AND THE 1990'S "Sixteenth annual meeting of The College of Diplomates of the American Board of Orthodontics, Lake Sagamore, New York. July 20, 1994.
380. "ORTHODONTICS AND FACIAL ESTHETICS" 9th Annual Thomas J. Zwemer Lecture, Medical College of Georgia Orthodontic Alumni Meeting. Augusta, Georgia. June 24 and 25, 1994.
381. "VIDEOIMAGING IN ORTHOGNATHIC SURGERY" University of North Carolina Residents Conference, Chapel Hill, NC. May 19, 1994.
382. "ORTHODONTICS AND FACIAL ESTHETICS" "RAPID PALATAL EXPANSION-WHAT'S NEW?" One-and-a-half-day course, Marquette University, Milwaukee, Wisconsin. May 16-17, 1994.

383. "VIDEOIMAGING IN ORTHOGNATHIC SURGERY" University of North Carolina Joint Conference for Orthodontic and Oral and Maxillofacial Residents. Chapel Hill, NC. May 21, 1994.
384. "ORTHODONTICS AND FACIAL ESTHETICS" One-day hands-on course, 94th Annual Session of the American Association of Orthodontists, Orlando, Florida. April 29-30, 1994.
385. "MAXIMIZING ESTHETICS IN ORTHOGNATHIC SURGERY" Joint meeting of Washington Orthodontists and Oral Surgeons, Falls Church, VA. February 18, 1994.
386. "VIDEOIMAGING-IS IT FOR MY PRACTICE?" The Gorman Institute (Ormco Corporation) Palm Springs, California. January 31, 1994.
387. "VIDEOIMAGING-CAN TREATMENT RESULTS BE PREDICTED?" University of California San Francisco, The Wendell Wylie Lecture, San Francisco, CA. January 21, 1994.
388. "COMPUTERIZED VIDEO IMAGING IN ORTHODONTICS AND ORTHOGNATHICS" Emory School of Medicine 3-day course "Changing Facial Esthetics" Atlanta, Georgia. December 4, 1993.
389. "TRENDS AND RESEARCH IN VIDEOIMAGING" Biennial Meeting of the Edward H. Angle Society of Orthodontists, Asheville, North Carolina. October 23, 1993.
390. "ORTHODONTICS AND FACIAL COSMETIC SURGERY" 75TH Annual Meeting of the American Association of Oral and Maxillofacial Surgeons, Orlando, Florida. September 30, 1993.
391. "CONTEMPORARY ORTHOGNATHIC SURGERY" Ormco Insiders Meeting, Sedona, New Mexico. September 15, 1993.
392. "ORTHODONTIC AND FACIAL ESTHETICS" 57th Annual Session of the Pacific Coast Society of Orthodontists. San Francisco, California. September 7, 1993.
393. "ORTHODONTICS AND FACIAL ESTHETICS" One-day hands-on course, 93rd Annual Session of the American Association of Orthodontists, Toronto, Canada. May 15, 1993.
394. "ORTHODONTICS AND FACIAL ESTHETICS" Essayist, 93rd Annual Session of the American Association of Orthodontists, Toronto, Canada. May 17, 1993.
395. "ORTHODONTICS, ORTHOGNATHICS AND ESTHETICS" One-and-a-half-day course, Temple Orthodontic Alumni Association, Philadelphia, Pennsylvania. March 5, 1993
396. "VIDEO IMAGING-ARTS & SCIENCE" University of North Carolina CE course, multiple speakers, Chapel Hill, NC. February 26 and 27, 1993.
397. "THRIVE OR SURVIVE-PRACTICE IN THE 1990's. THE USE OF VIDEO TECHNOLOGY IN THE ORTHODONTIC PRACTICE" AAO Practice Management Conference, Philadelphia, Pennsylvania. February 7, 1993.
398. "ORTHODONTICS, ORTHOGNATHICS AND ESTHETICS" One day course, 52nd Annual Convention of the Puerto Rican College of Dentists, San Juan, Puerto Rico. January 23, 1993.
399. "BONDED RAPID PALATAL EXPANSION" Enrichment Seminar Series, University of North Carolina, Dept. of Orthodontics, Chapel Hill, North Carolina. November 18, 1992.
400. "ORTHODONTICS AND ESTHETICS" Birmingham District Dental Society, Birmingham, Alabama. November 3, 1992.
401. "RHINOPLASTY AND ORTHOGNATHIC SURGERY" American Academy of Facial Plastic and Reconstructive Surgery Meeting- RHINOPLASTY '92. Birmingham, Alabama. October 24, 1992.
402. "ORTHODONTICS WITH A CLINICAL EMPHASIS" Annual Meeting of the Greater Philadelphia Orthodontic Society, Philadelphia, Pennsylvania. October 28, 1992.

403. 71ST ANNUAL MEETING OF THE SOUTHERN ASSOCIATION OF ORTHODONTISTS Lexington, Kentucky. October 10-13, 1992. Lectures presented:
- a. "Facial Esthetics in Orthodontics"
  - b. "Bonded Rapid Palatal Expansion"
  - c. "Non-Surgical Treatment of Skeletal Dysplasia"
  - d. "Rigid Fixation in Surgical Orthodontics"
  - e. "Clinical Pearls"
404. "ENHANCED COMMUNICATION FOR IMPRESSIVE CASE PRESENTATIONS" Seventh Annual East Coast Convention for the Professional Orthodontic Team. Myrtle Beach, South Carolina. June 27-28, 1992.
405. "THE FACE" Main Speaker at the Annual Meeting, British Society for the Study of Orthodontics Presidential Meeting at the Royal College of Surgeons, London, England. June 5, 1992.
406. "ORTHODONTICS WITH AN EMPHASIS ON ESTHETICS" One-day course, The Irish Orthodontic Society. Dublin, Ireland. June 8, 1992.
407. "ORTHODONTICS, ORTHOGNATHIC SURGERY, and IMAGING TECHNIQUES" One day Enrichment Seminar Series, University of Pittsburgh, Department of Orthodontics and Department of Oral and Maxillofacial Surgery. March 21, 1992.
408. "CONTEMPORARY ORTHOGNATHIC SURGERY-ORTHODONTICS AND ORTHOGNATHICS IN RIGID FIXATION ENVIRONMENT" Joint meeting of the Mississippi Oral and Maxillofacial Surgical Society and the Mississippi Association of Orthodontics. Jackson, Mississippi. February 15, 1992.
409. "VIDEO IMAGING UPDATE- A MINI PAPER" and "THE QUANTIFICATION OF CERVICOMENTAL ANGLE CHANGES FOLLOWING MANDIBULAR ADVANCEMENT." Meeting of the Midwest Component of the Edward H. Angle Society of Orthodontists, Chicago, Illinois. January 19-22, 1992.
410. **Orthodontics 2001: A Clinical Conference.** "ORTHOGNATHIC SURGERY WITH AN EMPHASIS ON ESTHETICS." The University of North Carolina Alumni 40th Anniversary Meeting. Raleigh, North Carolina. A two-day conference with multiple speakers. November 15, 1991.
411. "THE INTERACTION OF SOFT TISSUE PRINCIPLES OF GROWTH AND TREATMENT IN ORTHODONTIC AND ORTHOGNATHIC TREATMENT GOALS" One-day course. Case Western Reserve University, School of Dentistry, Cleveland, Ohio. September 14, 1991.
412. "ORTHODONTICS AND ORTHOGNATHICS-ENDODONTIC IMPLICATIONS" State meeting of the Alabama Association of Endodontists, Gulf Shores, Alabama. June 11, 1991.
413. "ORTHODONTICS, ORTHOGNATHICS, AND ESTHETICS" 8th District Dental Society, Huntsville, Alabama. May 5, 1991.
414. "VIDEO IMAGING TECHNIQUES FOR SUPERIMPOSITION OF CEPHALOMETRIC RADIOGRAPHY AND PROFILE IMAGES" Edward H. Angle Society of Orthodontics, Midwest Component Annual Meeting, Sanibel, Florida. February 13, 1991.
415. "RIGID INTERNAL FIXATION: IT'S USE AND COMPLICATIONS IN ORTHOGNATHICS AND ORTHODONTICS" Main Program, Annual Meeting of the University of Alabama Orthodontic Alumni, Birmingham, Alabama. February 1, 1991.
416. "ORTHODONTICS, ORTHOGNATHICS, AND IMAGING" Main Program, 25th Annual Meeting of the University of North Carolina Orthodontic Alumni, Raleigh, North Carolina. November 1990.
417. "ORTHODONTICS, ORTHOGNATHICS, AND ESTHETICS" Central Florida Dental Society, West Palm Beach, Florida. September 29, 1990.
418. "IMAGING AS A DIAGNOSTIC TOOL" The First International Conference on Oral and Maxillofacial Surgery, University of Alabama School of Dentistry, Department of Oral and Maxillofacial Surgery. Birmingham, Alabama. April 1, 1990.

419. "THE USE OF VIDEO IMAGING IN TREATMENT PLANNING" and "THE BONDED RAPID PALATAL EXPANSION APPLIANCE" Annual Meeting of the Georgia Association of Orthodontics, Atlanta, Georgia. March 25, 1990.
420. "LONG TERM SOFT TISSUE RESPONSE TO LEFORTE I MAXILLARY SUPERIOR REPOSITIONING" Edward H. Angle Society of Orthodontists, Midwest Component Annual Meeting. Indianapolis, Indiana. January 23, 1990.
421. "THE INTEGRATION OF ORTHOGNATHICS, COMPUTERIZED VIDEO IMAGING AND FACIAL PLASTICS IN ORTHODONTIC TREATMENT PLANNING" One day course, King's College at Kingston Hospital, London, England. June 17, 1989.
422. "TREATMENT PLANNING CONSIDERATIONS IN ORTHOGNATHIC TREATMENT PLANNING, VIDEO IMAGING-USSES AND PITFALLS" 49th Annual Meeting of the Southeastern Society for Oral and Maxillofacial Surgeons, Sea Island, Georgia. May 4-5, 1989.
423. "THE INTERACTION OF ORTHODONTICS AND ORTHOGNATHIC SURGERY IN FACIAL ESTHETICS" American Academy of Facial Plastic and Reconstructive Surgery. The Jack Anderson Lecture, Washington, D.C. September 24, 1988.
424. "VIDEOIMAGING IN ORTHOGNATHIC SURGERY" Edward H. Angle Society of Orthodontics, Midwest Component Annual Meeting, Minneapolis, Minnesota. January 25, 1988.
425. "THE USE OF HYDROXYLAPATITE IN ORTHOGNATHIC SURGERY" American Association of Orthodontists 86th Annual Meeting, Main Program, Chicago, Illinois. May 12-13, 1985.
426. "CURRENT CONCEPTS OF EARLY SKELETAL ORTHODONTIC AND ORTHOPEDIC TREATMENT" Alabama 5th District Dental Society, Montgomery, AL. March 28, 1985.
427. "TREATMENT PLANNING PROBLEMS IN ORTHOGNATHIC SURGERY CASES" Alabama Society of Oral and Maxillofacial Surgeons Annual Meeting, Chairman, Department of Oral Surgery. Panama City, Florida. September 2, 1983.
428. "FUNCTIONAL APPLIANCES" Red River Orthodontic Society, Houston, Texas. February 10, 1983.
429. "SURGICAL ORTHODONTICS" Alabama 5th District Dental Society, Montgomery, Alabama. February 18, 1982.
430. "SURGICAL ORTHODONTICS" "the Ramage Study Club (Decatur Alabama Area Dental Society), Decatur, Alabama. April 2, 1982.
431. "SURGICAL ORTHODONTIC TREATMENT OF DENTOFACIAL DEFORMITY" Florida 7th District Dental Society, Fort Walton, Florida. May 23, 1981.
432. "QUANTITATIVE EVALUATION OF MODE OF RESPIRATION IN RELATION TO FACIAL MORPHOLOGY" The Annual Meeting, American Association of Orthodontists, New Orleans, 1980.

## **WEBINAR PRESENTATIONS**

TDO Live!: Meeting 2020. April 24, 2020.

Glasgow Orthodontic Academy, United Kingdom May 17, 2020.

ACT Dental Conference, May 19, 2020.

Quintessence Publishing Seminars, May 26, 2020

Egyptian Orthodontic Society. June 21, 2020.

Turkish Orthodontic Society-June 28, 2020.

Egyptian Orthodontic Society, July 11, 2020

## **ACADEMIC APPOINTMENTS**

Adjunct professor, Department of Orthodontics, University of North Carolina School of Dentistry, 1992-present.

Adjunct professor, Department of Orthodontics, University of Texas Houston Branch, 2007.

Adjunct Professor, Department of Orthodontics, Case Western reserve University, 1998-present

Clinical Associate Professor, Department of Orthodontics, University of Alabama School of Dentistry, 1979-1995.

Director, Surgical-orthodontic teaching and clinical programs, University of Alabama School of Dentistry. Appointed 1988-1995.

Surgical consultant to Veterans' Administration hospital, Birmingham, Alabama. 1979-1983.

## **OFFICES, COMMITTEES and SERVICE**

### **AAO Council Service**

Council on Library Resources Of American Association Of Orthodontists. Appointed in 1988 for seven-year term completed in 1995.

### **UAB School of Dentistry**

Dean's Advisory Council, 2004-present

### **Auburn University**

Dean's Advisory Council, College of Science and Mathematics (COSAM), 2000-present 1856 Society

### **Alabama Association of Orthodontists**

TMJ Legislation Committee, Alabama Dental Association Special Committee. Appointed 1989.

Search Committee for Chairman, University of Alabama Department of Orthodontics, 1991.

Chairman, Special Committee for Blue Cross-Blue Shield and Alabama Association of Orthodontists 3rd Party Interaction

Chairman, Sterilization Committee, Alabama Association of Orthodontists. Organized statewide conference on new OSHA regulations held in Montgomery. Also co-developed manuals for OSHA and Sterilization Guidelines for statewide distribution and use, 1992.

Search Committee for the McCallum Endowed Chair-University of Alabama in Birmingham School of Dentistry. 1999.

### **AAO Foundation**

American Association of Orthodontists Foundation, State Director for Alabama. 1990- 1993.

Regent-AAOF 1998

### **University of North Carolina Orthodontic Alumni Association**

Research Evaluation Committee, University of North Carolina Orthodontic Alumni Association, 1989-1992

Chairman, Research Evaluation Committee, University of North Carolina Orthodontic Alumni Association, 1992-1993.

Local Arrangements Chairman, University of North Carolina Orthodontic Alumni Association, 1991-1992.

Secretary Treasurer, University of North Carolina Orthodontic Alumni Association, 1993-1994.

Vice President, University of North Carolina Orthodontic Alumni Association, 1994-1995.

President, University of North Carolina Orthodontic Alumni Association, 1995-1996.

### **Edward H. Angle Society-Midwestern Component**

Chairman, Study Committee, 1998-2001. Midwest Component of the Edward H. Angle Society of Orthodontists. Appointed to Committee in 1993.

President-Elect, Midwestern Component of the Edward H. Angle Society 2002-2003.

President, Midwestern Component of the Edward H. Angle Society 2003-2004

### **Editorial Boards**

Editorial Board-Seminars in Orthodontics, W. B. Saunders, 1994-Present.

Editorial Board- Healthscope Magazine, Birmingham, Alabama, 1993-1996.

Editorial Board-Orthodontic Products Magazine, Los Angeles, CA 2005-present

Section Editor (Orthodontics)-The Journal of Restorative Dentistry 2013-

Associate Editor-AJO-DO Clinical Companion

### **Reviewer**

American Journal of Orthodontics and Dentofacial Orthopedics

The Angle Orthodontist

The Journal of Orthodontics and Craniofacial Research

The British Journal of Orthodontics

The Journal of the American Dental Association

### **Service to Orthodontics**

Member-Joint Planning Committee for the organization of the 1996 Joint Clinical Congress of the American Association of Orthodontists and the American Association of Oral and Maxillofacial Surgeons.

Planning Committee Chairman- The 1<sup>st</sup> Technology Conference. for the annual meeting of the American Association of Orthodontics. 97th Annual Session, Philadelphia, PA, 1997.

Planning Committee Chairman- The 2<sup>nd</sup> Technology Conference. for the annual meeting of the American Association of Orthodontics. 98th Annual Session, Dallas, Texas, 1998.

Chairman- Planning Committee for the Technology Conference for the Southern Association of Orthodontists, November 1999.

Chairman- Planning Committee for the Technology Conference for the Southern Association of Orthodontists, November 2000.



Member-at-Large, AAO Technology Visioning Task Force, March 10-12, 2009, St. Louis, Missouri

Program Chairman- The 31st Annual meeting of the College of Diplomates of the American Board of Orthodontics, Kohler, Wisconsin, July 18 & 21, 2009.

Chairman- Technology Committee for the Southern Association of Orthodontists-task to evaluate needs for the Central Office and long-term projection of these needs and Web site evaluation and development

Co-Chairman (with Dr. Peter Sinclair) of the Scientific Program, the 115<sup>th</sup> annual meeting of the American Association of Orthodontists for New Orleans, 2014.

Co-Chairman (with Dr. Glen Cowan) of the Team Program, the 115<sup>th</sup> annual meeting of the American Association of Orthodontists for New Atlanta, GA, 2019.

### **Community Service**

Director of Fundraising- Dental Professionals, United Way, 1994.

Member-Executive Board of The Exceptional Foundation- Mission to ongoing activities, facilities, and care for handicapped children in Birmingham, Alabama, 1998.

Member-Recruitment Committee for Alec De Tocqueville Society of United Way-Birmingham Alabama 2007.

Member-Board of Parks & Recreation, Vestavia Hills, Alabama; 2003-present.