Date: January 29, 2019

**CURRICULUM VITAE**

**University of Alabama at Birmingham School of Dentistry**

NATHANIEL C LAWSON DMD PhD

**ACADEMIC POSITION**

Rank: Assistant Professor

Title(s): Division Director, Program Director

Department: Clinical and Community Sciences

Business Address: 1919 7th Ave S SDB 602, Birmingham AL 35203

Phone: 205-975-8302

Fax: 205-975-6108

Email: nlawson@uab.edu

**PERSONAL INFORMATION**

Name: Nathaniel Lawson

Citizenship: USA

Home Address: 2024 2nd Ave N Birmingham AL 35203

Phone: 219-789-2448 (cell)

**HOSPITAL AND OTHER (NON ACADEMIC) APPOINTMENTS:** Staff clinician, 1917 Clinic, UAB Hospital

**EDUCATION HISTORY:**

|  |  |  |
| --- | --- | --- |
| **Year** | **Degree** | **Institution** |
| 2006 | BS | Tulane University |
| 2007 | MS | UAB School of Engineering |
| 2011 | DMD | UAB School of Dentistry |
| 2012 | PhD | UAB School of Engineering |

**LICENSURE:**

Alabama Dental License #AL 5878 (2011-present)

Illinois Dental License #019.029191 (2012-2015)

**BOARD CERTIFICATION:**

Southern Regional Testing Agency (2011)

**ACADEMIC APPOINTMENTS:**

|  |  |  |
| --- | --- | --- |
| **Year** | **Rank/Title** | **Institution** |
| July 2016 | Division Director | Biomaterials, UAB School of Dentistry |
| January 2015 | Program Director | Biomaterials Residency Program, UAB School of Dentistry |
| January 2014 | Assistant Professor | UAB School of Dentistry |

**SERVICE AND RECOGNITIONS**

**AWARDS/HONORS:**

3M Innovative Research Fellowship, American Dental Association (2017)

Stanford New Investigator Award, American Dental Association (2016)

Research Grant Recipient, American Academy of Esthetic Dentistry (2015)

Leadership Award, International College of Dentists (2011)

Dental Materials New Investigator Award, Heraeus/International Association of Dental Research (2010)

**PROFESSIONAL SOCIETIES AND MEMBERSHIPS:**

President - Alabama Section of AADR, (2017-2018)

American Association for Dental Research (2004-present)

American Dental Education Association (2014-present)

American Dental Association (2006-2011, 2016-present)

Alpha Omega Dental Fraternity (2006-present)

**EXTRAMURAL SERVICE:**

Member, American Dental Association Scientific Council (2018-present)

Member-at-large, American Association for Dental Research Dental Materials Group (2018-present)

Products Evaluations Subcommittee, American Dental Association Scientific Council (2017)

Editorial Advisory Board, *Compendium* (2017-present)

Editorial Advisory Board, *Dental Products Review* (2018-present)

AADR Fellowship Committee (2015-present)

Working Group 9 (CAD/CAM in dentistry) of the ADA Standards Committee (2016-present)

Working Group 2.20 (Metal-Ceramic) of the ADA Standards Committee (2016-present)

ADA Clinical Evaluators Panel (2016-present)

Alpha Omega Charitable Foundation, National Treasurer (2015)

**INTRAMURAL SERVICE:**

UAB Biomaterials Steering Committee (2017)

UAB Graduate Curriculum Committee, Alternate Member (2016-present)

UAB Research Themes Committee (2016-present)

UAB Research Advisory Committee (2015-present)

UAB Continuing Education Committee (2015-present)

**TEACHING**

**TEACHING EXPERIENCE:**

Course Director, Pre-clinical course, Advanced Restorative Techniques, UAB (2016-present)

Course Director, Dental course, Health Promotions, UAB (2016-present)

Course Director, Graduate course, Biomaterial Journal Club, UAB (2015-present)

Group Facilitator, Dental course, Case Based Education I, UAB (2015-present)

Laboratory Course Director, Graduate course, Clinically Applied Dental Materials, UAB (2016-present)

Lecturer, Dental course, Pre-clinical Dentistry Fixed Prosthodontics, UAB (2015-present)

Lecturer, Dental course, Operative Dentistry, UAB (2015-present)

Lecturer, Dental course, Advanced Dental Materials, UAB (2015-present)

Lecturer, Graduate course, International Dental Program Materials Update, UAB (2016-present)

**MENTORING:**

*Thesis Committees***:**

2018-9 Committee Member, Anvita Maharishi. Transmission and wear of translucent zirconia after conventional and fast sintering cycle. MS Biomaterials.

2018-9 Committee Member, Mohammed Badhaman. Bioactive Materials: Gloss, Wear, Hydroxyapatite Formation, Ion Release, and Ion Recharge. MS Biomaterials.

2018-9 Committee Member, Yasko Darkoue. Surface treatment effects on shear bond strength and biaxial flexural strength of three generations of zirconia. MS Biomaterials.

2017-8 Committee Member, Faimeena Farheen. Bonding to fiber posts. MS Biomaterials.

2017-8 Committee Chair, Kyle Feagin. Wear of Orthodontic bite turbos and opposing enamel. MS Orthodontics.

2017-8 Committee Chair, Akshar Patel. Cutting efficiency of zirconia diamond burs. BS Honors in Chemistry

2016-7 Committee Member, Prajakta Kulkarni. Ion release, flexural strength, and mineral deposition of bioactive materials. MS Biomaterials

2016-7 Committee Chair, Purvi Vaghela. Resin infiltration of interproximal caries: A 6 month clinical evaluation. MS Biomaterials

2016- Committee Member, Nikunj Jindal. Electrolytic deposition and morphology control of hydroxyapatite on metallic substrate. PhD Material Science

2016-7 Committee Chair, Suruchi Lamba. Crown retention with a bioactive cement. MS Biomaterials

2016-7 Committee Chair, Amir Nejat. Crown of resin ceramic hybrid CAD/CAM crowns. MS Biomaterials

2016- Committee Chair, Carlos Jurado. Crown fracture strength of translucent zirconia crowns. MS Prosthodontics

2016-7 Committee Member, Firas Mourad. The Effect of Temperature and Pressure on Different Resin Cements Utilized for Cementing a Co-Cr Printed Bar. MS Prosthodontics

2016-7 Committee Member, Watcharapong Aroonsang. Bonding to Zircona Maryland FPDs. MS Prosthodontics

2016 Committee Member, Celin Arce. Retentive strength at the zirconia implant abutment and titanium base interface with different surface treatments. MS Prosthodontics

2016 Committee Member, Katie Haynie. Three Dimensional Age Related Changes of the Adult Male Face. MS Orthodontics

2015-6 Committee Chair, Eleni Voltidi. Effect of margin design on fracture strength of zirconia crowns. MS Prosthodontics

2015-6 Committee Member, Ricardo Galindo. Capacity of True Definition Scanner (3M) to capture margins and make repeatable impressions depending of placement of margins in relation to gingival height. MS Prosthodontics

2015-6 Committee Member, Nan Xiang. Crown retention of lithium disilicate crowns luted with a bioactive cement. MS Biomaterials

2014-5 Committee Chair, Ritika Bansal. Wear of a CAD/CAM Restorative Materials. MS Biomaterials

2014-5 Committee Member, Shruti Sonavane. Retention Of CAD/CAM Crowns luted With RMGI And Resin Cements. MS Biomaterials

2014-5 Committee Member, Rashmi Radhakrishnan: Bond of Resin Cements to Tooth Substrates in Self-cure Mode. MS Biomaterials

2014-5 Committee Member, Thomas Lucas, Analysis Of Tetragonal To Monoclinic Phase Transformation Caused By Accelerated Artificial Aging And The Effects Of Microstructure In Stabilized Zirconia, PhD Material Science

2014-5 Committee Member, Antigoni Stylianou. Bond of Novel Light Scattering Fiber Post System as a Function of Root Depth. MS Prosthodontics

2014-5 Committee Member, Pattarika Angkasith. Preparation design of zirconia resin bonded fixed partial denture abutment. MS Prosthodontics

2014-5 Committee Mentor, Katelyn Feinberg. Translucency, Stain Resistance and Hardness of Composites Used for Invisalign Attachments. MS Orthodontics

2014-5 Committee Member, Brittany Reid. Perceptions of Facial Attractiveness: Outcomes of Orthognathic Surgery. MS Orthodontics

2014-5 Committee Member, Mary Law. Changes in Frontal Soft Tissue of the Lower Face by Age and Sex. MS Orthodontics

2014-5 Committee Chair, Neel Patel. Stain Resistance Of Polymer-Ceramic CAD/CAM Restorative Materials. BS Honors in Chemistry

2014-5 Committee Member, Bright Chang. Properties and Application Techniques of Dental Universal Adhesives. BS Honors in Chemistry

2014-5 Committee Member, Taylor Knable. Bond strength of dual-cure resin cement using three universal adhesive systems with two curing modes. BS Honors in Chemistry

2014 Committee Member, Tim Menees. Influence of particle abrasion or hydrofluoric acid etching on lithium disilicate flexural strength. BS Honors in Chemistry

**MAJOR LECTURES AND VISITING PROFESSORSHIPS:**

Presenter, Tokyo Dental and Medical University, An update to zirconia (Tokyo, Japan) September 2018

Keynote Presenter, IADR, Keynote Address: Adhesion to Glass Ceramics and Zirconia: A Closer Look at the Evidence (London, UK) July 2018

Presenter, Pacific Dental Conference, Ceramics: State of the art (Vancouver, BS) March 2018

Speaker, 3M Global Town Hall Meeting, *My Path to a Career in Dental Research* (St Paul, MN) November 2017

Speaker, Society for Color and Appearance in Dentistry, *Contemporary Ceramics 2017* (Newport Beach, CA) August 2017

Speaker, International Ceramic Symposium, *Ceramic Wars* (San Diego, CA) June 2017

Speaker, American Academy of Cosmetic Dentistry Conference, *Contemporary Ceramics 2017* (Las Vegas, NV) April 2017

Key Note Lecture, UAB Scholar’s Symposium, *Clinical Research* (Birmingham AL) March 2017

Speaker, American Dental Association Annual Meeting New and Emerging Speakers, *Dental Ceramics: State of the Art* (Denver, CO) October 2016

Presenter, American Academy of Esthetic Dentistry, *Fracture Strength of Translucent Zirconia Crowns* (Dana Point, CA) Aug 2016

Speaker, Association for Dental Sciences of the Republic of China, *Dental Ceramics: State of the Art* (Taipei, Taiwan) Aug 2016

Presenter, American Academy of Restorative Dentistry, *Hybrid Materials: A Faster Option for CAD/CAM Restorations?* (Chicago IL) Feb 2016

Presenter, CAL-LAB, *Translucent Zirconia* (Chicago IL) Feb 2016

**RESEARCH**

**MAJOR RESEARCH INTERESTS: (2-3 Sentences)**

1. Clinical evaluation of novel dental restorative materials

2. Evaluation of mechanical properties of dental polymers and ceramics

3. Evaluation of the interaction between dental materials and tooth structure

**GRANT SUPPORT: (PAST AND CURRENT)**

Academic and Foundation Supported (n=6)

Bioactive Materials: Ion Release, Secondary Caries Depth and Elemental Analysis of Surrounding Tooth

Role: Student Mentor

Agency: American Dental Association

Funding amount: $6,000

Dates: February 2017 – March 2018

Microleakage around zirconia crowns after ultrasonic scaling around their margin

Role: Principal Investigator

Agency: Alpha Omega Foundation Research Grant

Funding amount: $5,000

Dates: January 2017 – August 2017

Clinical trial to measure low temperature degradation of zirconia crowns

Role: Principal Investigator

Agency: UAB Faculty Development Grant

Funding amount: $10,000

Dates: August 2015 – August 2017

Fracture strength of zirconia crowns following artificial aging

Role: Principal Investigator

Agency: American Academy of Esthetic Dentistry Research Grant

Funding amount: $5,000

Dates: August 2015 – August 2016

Effect of sonic scaler and toothbrush on marginal integrity of class V restorations

Role: Principal Investigator

Agency: Alpha Omega Foundation Research Grant

Funding amount: $5,000

Dates: August 2015 – August 2016

Stability of Silane Coating on Lithium Disilicate

Role: Co-Principal Investigator

Agency: Alpha Omega Foundation Research Grant

Funding amount: $5,000

Dates: August 2015 – August 2016

Academic and Foundation Supported (n=6)

Bioactive Materials: Ion Release, Secondary Caries Depth and Elemental Analysis of Surrounding Tooth

Role: Principal Investigator / Student Mentor

Agency: American Dental Association

Funding amount: $6,000

Dates: February 2017 – March 2018

Microleakage around zirconia crowns after ultrasonic scaling around their margin

Role: Principal Investigator

Agency: Alpha Omega Foundation Research Grant

Funding amount: $5,000

Dates: January 2017 – August 2017

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Role: Principal Investigator

Agency: UAB Faculty Development Grant

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Dates: August 2015 – August 2017

Fracture strength of zirconia crowns following artificial aging

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Dates: August 2015 – August 2016

Effect of sonic scaler and toothbrush on marginal integrity of class V restorations

Role: Principal Investigator

Agency: Alpha Omega Foundation Research Grant

Funding amount: $5,000

Dates: August 2015 – August 2016

Stability of Silane Coating on Lithium Disilicate

Role: Co-Principal Investigator

Agency: Alpha Omega Foundation Research Grant

Funding amount: $5,000

Dates: August 2015 – August 2016

Clinical Studies - Industry Supported (n=9)

Clinical Evaluation of Two Resin Composites – Additional group

Role: Principal Investigator

Sponsor: Ivoclar Vivadent

WIRB: 20110464

Dates: September 2017 – March 2021

Clinical Evaluation of In-office and at Home Vital Tooth Whitening

A Clinical Efficacy Testing

Role: Principal Investigator

Sponsor: Trendsight

WIRB: in submission

Dates: August 2016 - August 2017

Clinical Evaluation of a Zirconia re-enforced Lithium Silicate Crown

Role: Principal Investigator

Sponsor Dentsply Sirona

WIRB: in submission

Dates: June 2016 - September 2019

Clinical Evaluation of an Amalgam Replacement Dental Filling Material

Role: Principal Investigator\*

Sponsor: Ivoclar Vivadent

WIRB: W150630002

Dates: June 2016 – August 2018

Clinical Performance of an Incrementally Placed Highly Filled Composite, an Incrementally Placed Flowable Composite, and a Bulk Filled Composite in Class II Restorations

Role: Principal Investigator\*

Sponsor: 3M ESPE

WIRB: W150923005

Dates: October 2015 – July 2020

Clinical Evaluation of a Selected Etch and Three Step Total Etch Dental Adhesive in Class V Restorations

Role: Principal Investigator\*

Sponsor: 3M ESPE

WIRB: 20111443

Dates: October 2015 – September 2016

Double Blind Randomized Controlled Clinical Trial of Lesion Progression After Treatment with Icon vs. Placebo in Caries Lesions in Young Adults Over 36 Months

Role: Principal Investigator\*

Sponsor: DMG

WIRB: W140310002

Dates: October 2015 – October 2018

Clinical Evaluation of an Experimental Urethane Dimethacrylate Resin Based Composite

Role: Principal Investigator\*

Sponsor: Dentsply Sirona

WIRB: 20122081

Dates: January 2016 - December 2016

Clinical Evaluation of Two Resin Composites

Role: Investigator

Sponsor: Ivoclar Vivadent

WIRB: 20110464

Dates: July 2015 – June 2017

\*indicates studies in which PI status was transferred from J Burgess

Laboratory Studies - Industry Supported (n=42)

Wear of chairside zirconia

Role: Principal Investigator

Sponsor: 3M ESPE

Dates: December 2018 – April 2019

Retention of Lithium Disilicate Copings Luted with New Dental

Role: Principal Investigator

Sponsor: 3M ESPE

Dates: December 2018 – April 2019

Shear bond strength of an improved universal adhesive to restorative materials and tooth structure

Role: Principal Investigator

Sponsor: 3M ESEP

Dates: November 2019 – April 2019

Endodontic post retention with a calcium aluminate, glass ionomer, and resin cement

Role: Principal Investigator

Sponsor: Doxa

Dates: June 2018 – November 2018

Wear of G-aenial Universal Injectable

Role: Principal Investigator

Sponsor: GC American

Dates: June 2018 – November 2018

Retention of Glass Ceramic Copings Luted with RMGI, GI and SARC Cements

Role: Principal Investigator

Sponsor: Dentsply Sirona

Dates: June 2018 – April 2019

Wear, Strength, and Translucency of KATANA Block with Accelerated Sintering

Role: Principal Investigator

Sponsor: Kuraray Noritake

Dates: June 2018 – February 2019

In Vitro Wear of K-0180 (ASAR) Compared to Current Dental Filling Materials

Role: Principal Investigator

Sponsor: Dentsply Sirona

Dates: February 2018 – November 2018

Crown retention of new resin cement

Role: Principal Investigator

Sponsor: 3M ESPE

Dates: November 2017 – April 2018

In vitro wear of bioactive materials

Role: Principal Investigator

Sponsor: Sirona Dentsply

Dates: November 2017 – April 2018

In vitro wear of denture teeth

Role: Principal Investigator

Sponsor: Sirona Dentsply

Dates: February 2017 – February 2018

Fracture strength of translucent zirconia crowns

Role: Principal Investigator

Sponsor: 3M ESPE

Dates: December 2016 – May 2017

Investigation of Retention of CAD/CAM Crowns

Role: Principal Investigator

Sponsor: Glidewell

Dates: December 2015 – December 2016

Investigation of Novel Composite Polishing System

Role: Principal Investigator

Sponsor: Kerr

Dates: June 2016 – September 2016

Investigation Of Microleakage Under Class II Restorations Restored with Various Bulk-Fill Materials

Role: Principal Investigator

Sponsor: Danville

Dates: September 2016 – November 2016

Adhesive Schemes on Cemented All-Ceramic Crown Tensile Testing

Role: Co-Principal Investigator

Sponsor: Dentsply Caulk

Date: March 2016 – June 2016

SBS of Adhesive in Self-Etch and Total Etch to Dentin and Enamel

Role: Co-Principal Investigator

Sponsor: DMG

Dates: March 2016 – June 2016

Enamel Wear Opposing Zirconia

Role: Co-Principal Investigator

Sponsor: 3M

Dates: February 2016 – May 2016

Wear Study of Zirconia

Role: Co-Principal Investigator

Sponsor: Kuraray

Dates: November 2015 – January 2016

Retention of Cerasmart Crowns Comparing Bonding Techniques

Role: Co-Principal Investigator

Sponsor: GC America

Dates: January 2016 – April 2016

In Vitro Wear of 3 Glass Ionomer Materials

Role: Co-Principal Investigator

Sponsor: GC America

Dates: August 2015 – October 2015

Retention of CAD/CAM Crowns Luted with a New Biometic Cement

Role: Co-Principal Investigator

Sponsor: Pulpdent

Dates: July 2015 – November 2015

Fracture Load of Zirconia Crowns with Different Margin Designs

Role: Co-Principal Investigator

Sponsor: Glidewell

Dates: May 2015 – August 2015

Polymerization Shrinkage of Bulk-Placed Nano-Filled ORMCER Restorative Material

Role: Co-Principal Investigator

Sponsor: VOCO America

Dates: May 2015

Novel Composite Polishing System

Role: Co-Principal Investigator

Sponsor: 3M ESPE

Dates: May 2015

Polymerization Shrinkage of Composite

Role: Co-Principal Investigator

Sponsor: Ivoclar Vivadent

Dates: March 2015

Retention of All Ceramic Crowns Bonded with Resin Cements

Role: Co-Principal Investigator

Sponsor: GC America

Dates: February 2015

Fracture Toughness of Dental Provisional Materials

Role: Co-Principal Investigator

Sponsor: GC America

Dates: March 2015

In Vitro Wear of Basic Fill

Role: Co-Principal Investigator

Sponsor: Ivoclar Vivadent

Dates: February 2015

Depth of Cure of 2 Bulk-fill Composites

Role: Co-Principal Investigator

Sponsor: Ivoclar Vivadent

Dates: February 2015

Restoration Interface Leakage of a New Restorative Material Compared to Dental Amalgam

Role: Co-Principal Investigator

Sponsor: Ivoclar Vivadent

Dates: February 2015

Bond of Novel Light Scattering Fiber Post System as a Function Of Root Depth

Role: Co-Principal Investigator

Sponsor: iLumi Sciences

Dates: December 2014

24 Hour Bond Strength of Resin Cements To Tooth Structure

Role: Co-Principal Investigator

Sponsor: GC America

Dates: September 2014

Bond of Resin Cements To Cerasmart And Dentin

Role: Co-Principal Investigator

Sponsor: GC America

Dates: November 2014

Wear of Experimental Composite

Role: Co-Principal Investigator

Sponsor: Kerr Corporation

Dates: November 2014

SBS of 5 Resin Cements

Role: Co-Principal Investigator

Sponsor: Ivoclar Vivadent

Dates: November 2014

Shear Bond Strength to Dentin: An Evaluation of Self-Adhesive Cements

Role: Co-Principal Investigator

Sponsor: Kerr Corporation

Dates: August 2014

Wear of Two Novel Composites

Role: Co-Principal Investigator

Sponsor: Kerr Corporation

Dates: September 2014

Color Stability of Amine-Free Dental Cement

Role: Co-Principal Investigator

Sponsor: Kuraray America

Dates: August 2014

Bond Strength of Resin Cements to Tooth Structure

Role: Co-Principal Investigator

Sponsor: Kuraray America

Dates: August 2014

Wear of a Novel Material

Role: Co-Principal Investigator

Sponsor: Pulpdent

Dates: May 2014

All-Ceramic Crown Tensile Test

Role: Co-Principal Investigator

Sponsor: Dentsply

Dates: October 2014

SBS of 6 Adhesives for Indirect Restorations

Role: Co-Principal Investigator

Sponsor: Ivoclar Vivadent

Dates: April 2014

**NIH Supported**

T-32 DE017607

Role: DMD/PhD Student Trainee

Principal Investigator: M MacDougall

Agency: National Institute of Dental & Craniofacial Research

Dates: July 2006 – May 2012

**BIBLIOGRAPHY**

**MANUSCRIPTS**

**Manuscripts already published (n=48)**

**Sulaiman TA, Lawson NC.** Diagnosing a failed impression: Common Errors and How to Overcome Them. Compendium 40(3): ??

**Lawson NC**, Lazaro Villa H, Robles A. Ceramic Restorations Flourishing With State-of-the-Art Materials, Methods. Compendium 39(10):722-723

Kwon D, **Lawson NC**, McLaren EA, Burgess JO. Comparison of the mechanical properties of translucent zirconia and lithium disilicate J Prosthet Dent. Jul;120(1):132-137.PMID: 29310875

Arce C, **Lawson NC**, Liu P, Lin CP, Givan DA. Retentive strength at the zirconia implant abutment and titanium base interface following different surface treatments JOMI. May/June;33(3):530–535

Chang B, Goldstein RG, Lin PC, **Lawson NC**. 2017 Microleakage around zirconia crown margins after ultrasonic scaling. JERD. 2018;30(1):73-80. PMID: 29194924

Nejat AH, Chavali R, Lee JW, Shah S, **Lawson NC**. Crown retention of CAD/CAM composite crowns with various surface treatments. Am J Dent. 2018: 31(2):97-102. PMID: 29630794

Duong ML, Cothron AD, **Lawson NC**, Dohery E. Attitudes of US Deans and Academic Deans towards the Integrated National Dental Board Examination. J Dent Ed. Mar;82(3):252-259. PMID: 29496803

McLaren EA, **Lawson N**, Choi J, Kang J, Trujillo C. 2017. New High-Translucent Cubic-Phase–Containing Zirconia: Clinical and Laboratory Considerations and the Effect of Air Abrasion on Strength. Compendium. 38(6):e1-3. PMID: 28586235

Chavali R, Lin CP, **Lawson NC**. 2017. Evaluation of different polishing systems and speeds for YTP-zirconia. J Prosthet Dent. Jul;26(5):410-418. PMID: 26618785

**Lawson NC**, Robles A. 2017. Tipping Point: An Update on Curing Lights, Resin Composites, and Matrix Systems. Compendium. 38(2):120-121. PMID: 28156126

Goldstein R, Lamba S, **Lawson NC**, Beck PR, Oster RA, Burgess JO. 2017. Microleakage around class V composite restorations after ultrasonic scaling and sonic toothbrushing around their margin. J Esthet Restor Dent. 29(1):41-48 PMID: 27612323.

Stylianou A, Burgess JO, Liu PR, Givan DA, **Lawson NC**. 2017. Light Transmitting Fiber Optic Posts – An In Vitro Evaluation. J Prosthet Dent. 117(1):116-123 PMID: 27646793.

Chavali R, Nejat A, **Lawson NC**. 2016. Machinability of CAD/CAM materials. J Prosthet Dent. Aug;118(2):194-199.PMID: 28024821

**Lawson NC**, Bansal R. Burgess JO. 2016. Wear, strength, modulus and hardness of CAD/CAM restorative materials. Dent Mater. 32(11):e275-283. PMID: 27639808

Makhija SK, **Lawson NC**, Gilbert GH, Litaker MS, McClell J, Louis D, Gordan VV, Pihlstrom DJ, Meyerowitz C, Mungia R, McCracken M. 2016. Dentist Material Selection for Single-Unit Crowns: Findings from The National Dental Practice-Based Research Network. J Dent. Dec;55:40-47. PMID: 27693778

Chirumamilla G, Goldstein CE, **Lawson NC**. 2016. A 2 year retrospective clinical study of Enamic crowns performed in a private practice setting. J Esthet Restor Dent Jul;28(4):231-237 PMID: 27219683.

Bansal R, Burgess JO, **Lawson NC**. 2016. Wear of an enhanced resin-modified glass-ionomer restorative material. Am J Dent 29(3):171-174. PMID: 27505995

Feinberg KB Souccar NM, Kau CH, Oster R, **Lawson NC**. 2016. Translucency, stain resistance and hardness of composites used for Invisalign attachment. J Clin Ortho 50(3):170-176. PMID:27117736.

Angkasith P, Burgess JO, Bottino MC, **Lawson NC**. 2016. Cleaning methods for zirconia following salivary contamination. J Prosth. Jul;25(5):375-379. PMID: 26833856.

Sawlani K, **Lawson NC**, Burgess JO, Lemons JE, Kinderknecht KE, Givan DA, Ramp LC. 2016. Factors influencing the progression of non-carious cervical lesions -A 5-year prospective clinical evaluation. J Prosthet Dent. May;115(5):571-577. PMID: 26774320.

**Lawson NC**, Burgess JO. 2016. Gloss and stain resistance of ceramic-polymer CAD/CAM restorative blocks. JERD. 28 Suppl 1:S40- PMID: 26032245.

Menees TS, Lin CP, Kojic D, Burgess JO, **Lawson NC**. 2015. Depth of cure of bulk fill composites with LED and polywave curing lights. Am J Dent;28(6):357-361. PMID: 26897758.

Lucas TJ, **Lawson NC**, Janowski GM, Burgess JO. 2015. Effect of grain size and monoclinic transformation of partially stabilized zirconia. Dent Mater Dec;31(12):1487-1492. PMID: 26490101.

**Lawson N**, Radhakrishnan R, Ramp LC, Burgess JO. 2015. Two-year Randomized, Controlled Clinical Trial of a Flowable and Conventional Composite in Class I Restorations. Oper Dent 40(6):594-602. PMID: 26237643

**Lawson NC**, Robles A, Fu CC, Lin CP, Sawlani K, Burgess JO. 2015. Two-year clinical trial of a universal adhesive in total-etch and self-etch mode in non-carious cervical lesions. J Dent 43(10):1229-1234. PMID: 26231300.

Radhakrishnan R, Menees TS, **Lawson NC**, Ramp LC, Burgess JO. 2015 .Contact angle of unset elastomeric impression materials. J Prosthet Dent. 114(4):536-542. PMID: 26187106.

**Lawson NC**, Gilbert GH, Funkhouser E. 2015. General dentists' use of isolation techniques during root canal treatment: from the national dental practice-based research network J Endod. 41(8):1219-1225. PMID: 26015159.

Baladhandayutham B, **Lawson NC**, Burgess JO. 2015. Fracture load of all-ceramic restorations after fatigue loading. J Prosthet Dent.114(2):266-271. PMID: 25985741.

**Lawson NC**, Burgess JO. 2015. Clinicians reaping benefits of new concepts in impressioning. Compend Contin Educ Dent. 36(2):152-153. PMID: 25822643.

**Lawson NC**, Burgess JO. 2015. Bonding a veneered zirconia fixed partial denture. Compend Contin Educ Dent.36(1):46-53. PMID: 25822406.

Kalavacharla VK, **Lawson NC**, Ramp LC, Burgess JO. 2015. Influence of etching and silane treatment with a universal adhesive on lithium disilicate bond strength. Oper Dent. 40(4):372-37. PMID: 25535784.

Vance M, **Lawson NC**, Rupalc M, Burgess JO. 2014. Color and Gloss of Nano-filled Resin-modified Glass Ionomers and Resin Composites. J Esthet Rest Dent. 27(5):293-299. PMID: 25439032.

Lucas T, **Lawson NC**, Janowski G, Burgess JO. 2014. Phase transformation of dental zirconia following artificial aging. J Biomed Mater Res, Part B.103(2):424-429. PMID: 25448797.

**Lawson NC**, Janyavula S, Syklawer S, McLaren EA, Burgess JO. 2014. Wear of enamel opposing zirconia and lithium disilicate after adjustment, polishing and glazing. J Dent. 42(12):1586-1591. PMID: 25257823.

**Lawson NC**, Burgess JO. 2014. Wear of nano-filled dental composites at varying filler concentrations. J Biomed Mater Res B Appl Biomater. 103(2):424-429. PMID: 24909664.

Menees T, **Lawson NC**, Beck P, Burgess JO. 2014. Influence of particle abrasion or hydrofluoric acid etching on lithium disilicate flexural strength. 2014. J Prosthet Dent.112(5):1164-1170. PMID: 24951390.

**Lawson NC**, Burgess JO. 2014. Dental ceramics: a current review. Compend. 35(3):161-168. PMID: 24773195.

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**Lawson NC**, Burgess JO, Mercante D. 2007. Crown retention and flexural strength of eight provisional cements. J Prosthet Dent. 98(6):455-460. PMID: 18061739.

**Manuscripts in Press (n=1)**

**Lawson NC**, Litaker MS, Ferracane JL, Atlas A, Gordan VV, Rios T, Gilbert GH, McCracken MS. Choice of cement for single-unit crowns: Findings from the National Dental Practice-Based Research Network. JADA. [in press]

**Manuscripts submitted but not yet accepted *(n=1)***

**Lawson NC**, Litaker MS, Sowell W, Gordan VV, Mungia R, Ronzo KR, Lam BT, Gilbert GH, McCracken MS. Clinical Acceptance of Single-Unit Crowns and Its Association with Impression and Retraction Techniques: Findings from the National Dental Practice-Based Research Network. J Prosthet Dent. [in review]

**Manuscripts in preparation (n=3)**

Kulkarni P, Jurado C, Lawson NC. Crown fracture strength of translucent zirconia crowns with various bonding techniques. JADA [in preparation]

**Lawson NC**, Fu CC, Antonia SG, Morris GP, De Souza GM. Phase transformation of dental zirconia following 1 year of in vivo service. Dent Mater [in preparation]

Feagin K, Farheen F, Kwon D, Vlachos C, **Lawson NC**. Wear of orthodontic bite turbos and opposing enamel. J Clin Ortho. [in preparation]

***Periodicals (n=26)***

**Lawson NC.** Saving money on your lab bill at what cost? Dental Products Report. 2019; March

**Lawson NC**, Robles AR. The clinical treatment of deep caries. Decisions in Dentistry. 2019.

**Lawson NC**. Adjacent Class II composites with a universal adhesive and bulk fill composite. Dental Economics. 2019.

Arce C, Robles A, **Lawson NC.** Clinical Decision-Making for Cement Selection. CE eBook 2018;5(122):1-9

**Lawson NC.** Major Developments in Impression Taking. Inside Dentistry 2018; 14(10):83.

**Lawson NC**, Burgess JO, Atlas A. When Placing Zirconia or Lithium Disilicate Restorations, What Factors Govern Your Decision to Employ Traditional Cementation vs a Bonding Protocol? Inside Dentistry 2018; 14(8): 52-53.

Sari T, **Lawson NC**, Fu CC, Gurel G. Communicating Shade Between Dental Clinic and Laboratory Using the eLAB system. Inside Dent Technology. 2018 9(9): 30-37.

Cruz-Walma D, **Lawson NC**. A new weapon in the fight against reccurent caries. Dental Product Report. 2018; April [online]

Lawson NC. 3 Tips for Selecting your Next Composite. Dental Products Report. 2018; April: 1.

Arce C, Park S, **Lawson NC**. Bonding Translucent Zirconia Microlayered Crowns. Inside Dentistry. 2018; April 14(4): 66-67.

Croll TP, **Lawson NC**. Activa BioActive Restorative Material in Children and Teens: Examples and 46-month Observations. Inside Dentistry. 2018; February 14(2): S1-8.

**Lawson NC**. Bioactive materials: Understanding the evidence for their clinical applications in restorative dentistry. Decisions in Dentistry. 2018; April 4(4): 24-27.

Robles A, **Lawson NC**. Enamel microabrasion: case selection and clinical guidelines. J Cosmet Dent. 2018; Spring: 66-76.

Ferracane JL, Jefferies SR, **Lawson NC**. What is the best non-metallic material for Maryland Bridges, and how do you bond to them? Inside Dentistry. 2017; 13(11): 44-46.

**Lawson NC**, Chang B, Robles A. Clinical decisions faced with the use of universal adhesives. Decisions in Dentistry. 2017; 3(11):24-28.

McLaren EA, **Lawson N**, Choi J, Kang J, Trujillo C. 2017. New High-Translucent Cubic-Phase–Containing Zirconia. Inside Dental Technology. 2017; 8(10):26-35

**Lawson NC**. Sound Clinical Protocol for Bonding Ceramic Restorations. CE eBook 2017 June 4(79): 1-9.

**Lawson NC**, Burgess JO. Considerations when choosing an impression materials. Inside Dentistry 2017 Sep

Robles A, **Lawson NC**. 2016. Milling, polishing, and bonding new CAD/CAM materials. J Cosmet Dent. Spring 2017:50-62.

Fu CC, **Lawson NC**. Repair of a porcelain fused to metal fixed partial denture with a bonded zirconia onlay. Dent Today 2016 July 35(7); 138-139.

**Lawson NC**, Fu CC. Clinical Concerns and Common Misconceptions Regarding Zirconia Restorations. CE eBook 2016 June 3(44): 1-10.

**Lawson NC**, Nejat A. Temporary materials. Inside Dentistry 2016; April:62-65.

**Lawson NC**, Robles A. Bulk fill composites for Class II restorations. CE eBook 2015 Dec 2(30): 1-10.

Burgess JO, **Lawson NC**, Robles A. Digital impression system considerations. Inside Dentistry 2015 Sep 11(9): 70-76.

**Lawson NC**, Robles A. Bulk fill composites for Class II restorations. Inside Dentistry. 2015;Aug:43-50.

Burgess JO, **Lawson NC**. Digital vs. conventional impression materials. Inside Dentistry. 2013;Nov:68-74.

**BOOKS**

***Book Chapters (n=4)***

**Lawson NC,** Chaet R, Berg JResin infiltration (chapter). Micro Invasive Dentistry. JP Medical. [submitted]

**Lawson NC**, Burgess JO. Wear of CAD/CAM Materials (chapter). Quintessence for Dental Technology. Quintessence Books: 2016.

**Lawson NC**. Composite Dental Materials: Wear (chapter). The Concise Encyclopedia of the Properties of Materials Surfaces and Interfaces. JM Martin. Elsevier: electronic update 2015.

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**PUBLISHED ABSTRACTS**

**Oral Presentations (n=9)**

**Lawson NC**. Keynote Address: Adhesion to Glass Ceramics and Zirconia: A Closer Look at the Evidence. J Dent Res 97 (Spec Iss B); 2018: 583.

**Lawson NC**, Burgess JO, Fu CC, Robles A, Givan DA. Clinical evaluation of an amalgam replacement restorative material: 6-month recall. J Dent Res 2017; 96 (Spec Iss A):0416.

**Lawson NC**, Bansal R, Lemons J, Burgess JO. Wear, enamel wear, strength and hardness of CAD/CAM materials. J Dent Res 2016; 95 (Spec Iss A): 0067.

**Lawson NC**, Beck P, Cakir D, Burgess JO. Wear of nano-filled dental composites in a newly-developed testing device. J Dent Res 92(Spec Iss A):1680, 2013.

**Lawson NC**, Janyavula S, Beck P, Cakir D, Burgess JO. Wear of enamel opposing aged zirconia. J Dent Res 91(Spec Iss A):418, 2012.

**Lawson NC**, Beck P, Cakir D, Ramp LC, Burgess JO. Effect of lubricant viscosity on composite wear in artificial mouth. J Dent Res 90(Spec Iss A):1581, 2011.

**Lawson NC**, Warner B. National Student Research Group: The now and future of dental research. J Dent Res 89(Spec Iss A):151, 2010.

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Chang B, Goldstein RE, Lin CP, Byreddy S, Burgess JO, **Lawson NC**. Microleakage around zirconia crown margins after ultrasonic scaling. J Dent Res 97 (Spec Iss A); 2018:1575.

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**Lawson NC**, Burgess JO, Fu CC, Robles A, Givan DA. Clinical Evaluation of an Amalgam Replacement Restorative Material: 12-month Recall. J Dent Res 97 (Spec Iss A); 2018:234.

Patel A, Patel N, Nejat AH, **Lawson NC**. Cutting efficiency of diamond burs for dental zirconia. J Dent Res 97 (Spec Iss A); 2018:995.

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Farheen F, Burgess JO, **Lawson NC**, Beck PR. Shear Bond Strength of universal adhesives – varying application. J Dent Res 2017; 96 (Spec Iss A): 0391.

Kulkarni P, Lamba S, Chang B, Lin CP, **Lawson NC**, Burgess JO. Microleakage under Class II restorations restored with bulk-fill materials. J Dent Res 2017; 96 (Spec Iss A): 2604

Vaghela P, **Lawson NC**, Beck PR, Burgess JO. Gloss produced by 4 finishing/polishing materials- a double blind study. J Dent Res 2017; 96 (Spec Iss A): 3889.

Kwon S, Beck PR, Burgess JO, **Lawson NC**. Roughness, Gloss and Opposing Enamel Wear of Translucent Zirconia. J Dent Res 2017; 96 (Spec Iss A):0096

Chang BJ, **Lawson NC**, Burgess JO. Bond Strength Of Acetone-Based Adhesives Under Various Clinical Challenges. J Dent Res 2017; 96 (Spec Iss A): 0396

Chavali R, Nejat A, Burgess JO, **Lawson NC**. Translucency parameter of translucent zirconia and lithium disilicate. J Dent Res 2017; 96 (Spec Iss A):0669

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Robles A, Nejat AH, Beck PR, **Lawson NC**, Burgess JO. Retention of e.max and Celtra Duo copings with resin cement. J Dent Res 2017; 96 (Spec Iss A): 1376.

Fu C, Robles A, Givan D, Lawson N, Burgess JO. Two-year Clinical Evaluation of Non-Bisphenol A Containing Restorations. J Dent Res 2016; 95 (Spec Iss A): 0256

Xiang N, **Lawson NC**, Burgess JO, Lamba S, Beck PR. Retention of CAD/CAM Crowns Luted with a New Biomimetic Cement. J Dent Res 2016; 95 (Spec Iss A): 0374.

Mitchell A, Xiang N, **Lawson NC**, Burgess JO. Crown retention of Celtra Duo crowns. J Dent Res 2016; 95 (Spec Iss A): 0376.

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Menees T, **Lawson NC**, Burgess JO. Shrinkage strain of bulk-fill dental composites with novel strain-gauge model. J Dent Res 2016; 95 (Spec Iss A): 0636.

Chavali R, **Lawson NC**, Burgess JO. Composite resin gloss with a novel polishing system. J Dent Res 2016; 95 (Spec Iss A): 0649.

Sawyer H, Mitchell A, **Lawson NC**, Burgess JO, Beck P. Bulk-fill composite depth of cure with monowave and polywave lights. J Dent Res 2016; 95 (Spec Iss A): 1352.

Givan D, Fu C, Robles A, Sanga N, Lawson N, Burgess J. Clinical Evaluation of Non-Bisphenol A Class I and II Restorations. J Dent Res 2016; 95 (Spec Iss A): 1845.

Kwon SJ, Lawson N, Beck P, Bansal R, Burgess J. Bond strength, wear, and enamel wear of translucent zirconia. J Dent Res 2016; 95 (Spec Iss A): 0244.

Lamba S, Lawson N, Burgess J, Beck P, Goldstein R. Microleakage around class V composite restorations after ultrasonic cleaning. J Dent Res 2016; 95 (Spec Iss A): 1849.

Chang B, **Lawson NC**, Burgess JO. Stability of Silane to Lithium Disilicate in Extreme Environmental Conditions. J Dent Res 2016; 95 (Spec Iss A): 0571.

Robles A, **Lawson NC**, Fu C, Givan D, Ramp L, Burgess J. Clinical Evaluation Of Universal And Total-Etch Adhesives At 3 Years. J Dent Res 2016; 95 (Spec Iss A): 0255.

Karczewski A, Feitosa S, Lawson N, Gregory R, Bottino M. Clindamycin-containing Scaffolds for Root Canal Disinfection. J Dent Res 2016; 95 (Spec Iss A): 1830.

**Lawson NC**, Gilbert G, Funkhouser E, Benjamin PL, Eleazer P, Worley D. General dentists’ use of isolation techniques during endodontic procedures: National-Dental-PBRN. J Dent Res 2015;94(Spec Iss A): 1446.

Radhakrishnan R, **Lawson NC**, Xiang N, Ramp LC, Beck P, Burgess JO. Bond of resin cements to tooth substrates in self-cure mode. J Dent Res 2015;94(Spec Iss A):0102.

Sonavane SS, **Lawson NC**, Beck P, Ramp LC, Burgess JO. Retention of CAD/CAM crowns luted with RMGI and resin cements0239.

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Burgess JO, Fu CC, Robles AA, Givan DA, Ramp LC, **Lawson NC**, Sawlani K. Clinical evaluation of a urethane dimethacrylate composite - 6 months. J Dent Res 2015;94(Spec Iss A): 0860.

Sawlani K, Burgess JO, **Lawson NC**, Lemons J, Givan DA, Kinderknecht K, Ramp LC, Beck P. Factors increasing non-carious lesion size- a five year clinical evaluation. J Dent Res 2015;94(Spec Iss A): 1829.

Lucas TJ, Janowski G, **Lawson NC**, Beck P, Burgess JO. Wear effects of grain size and transformation in partially stabilized zirconia. J Dent Res 2015;94(Spec Iss A): 2124.

Xiang N, **Lawson NC**, Ramp LC, Beck P, Burgess JO. Color stability of amine-free dental cement. J Dent Res 2015;94(Spec Iss A): 2339.

Fu CC, Robles AA, Givan DA, Ramp LC, **Lawson NC**, Burgess JO. Three-year clinical evaluation of self-etching adhesives in class V restorations. J Dent Res 2015;94(Spec Iss A): 3265.

Robles AA, Givan DA, **Lawson NC**, Fu CC, Ramp LC, Cakir D, Burgess JO. Two year clinical evaluation of self-etch and total-etch universal adhesive. J Dent Res 2015;94(Spec Iss A): 3267.

Givan DA, **Lawson NC**, Radhakrishnan R, Fu CC, Robles AA, Ramp LC, Cakir D, Burgess JO. Clinical comparison of a flowable to conventional resin composite. J Dent Res 2015;94(Spec Iss A): 3269.

Patel N, **Lawson NC**, Burgess JO. Stain resistance of polymer-ceramic CAD/CAM restorative materials. J Dent Res 2015;94(Spec Iss A): 3510.

Beck P, Bansal R, **Lawson NC**, Burgess JO. In vitro wear of a bulk placed composite and enamel. J Dent Res 2015;94(Spec Iss A): 3780.

Chang BJ, **Lawson NC**, Burgess JO. Effect of adhesive coats and solvents on bond strength. J Dent Res 2015;94(Spec Iss A): 3385.

Janyavula S, **Lawson NC**, Beck P, Cakir D, Ramp LC and Burgess J Wear of enamel opposing aged zirconia. J Dent Res 91(Spec Iss A):418, 2012.

Manolakis JM, **Lawson NC**, Beck P, Cakir D, Ramp LC and Burgess J. Validation of a novel artificial mouth for measuring in-vitro wear. J Dent Res 90(Spec Iss A):2029, 2011.

**Lawson NC**, Cakir D, Ramp LC, Beck, Burgess JO. Effect of light activation on resin-modified glass ionomer bonding mechanism. J Dent Res 89(Spec Iss B):1358, 2010.

**Lawson NC**, Ramp LC, Cakir D, Beck P, Burgess JO. Impression material tear strength before and after recommended setting time. J Dent Res 89(Spec Iss A):240, 2010.

**Lawson NC**, Jampani P, Cakir D, Ramp LC, Burgess JO. Flexural strength and modulus of elasticity of a self-etching composite. J Dent Res 88(Spec Iss A):2414, 2009.

**Lawson NC**, BurgessJO. Evaluation of bond strength with the immediate dentinal sealing technique. J Dent Res 87(Spec Iss B):3126, 2008

**Lawson NC**, Michelson C, Cakir D, Burgess JO. Effect of 4 medium used in in-vitro composite wear testing. J Dent Res 87(Spec Iss A):0377, 2008.

**Lawson NC**, Burgess JO, Ramp LC. Elastic elongation and recovery of impression materials. J Dent Res 86(Spec Iss A):2051, 2007.

Beck P, Burgess JO, **Lawson NC**, Ramp LC. Tear strength of seven elastomeric impression materials. J Dent Res 86(Spec Iss A):1624, 2007.

Hadley A, **Lawson NC**, Burgess JO, Ramp LC. Flow of fast and regular set elastomeric impression materials. J Dent Res 86(Spec Iss A):1630, 2007.

Broome JC, Burgess JO, **Lawson NC**. Flow of fast and regular set elastomeric impression materials. J Dent Res 85(Spec Iss C):0324, 2006.

**Lawson NC**, Burgess JO, Mercante D. Crown retention and flexural strength with nine provisional cements. J Dent Res 85(Spec Iss A):0332, 2006.

Ripps A, **Lawson NC**, Burgess JO. Tear strength of fast impression materials. J Dent Res 85(Spec Iss A):0415, 2006.

Winkler MM, **Lawson NC**, Burgess JO, Shang X. In vitro loss of flowable resin composites. J Dent Res 85(Spec Iss A):0403, 2006.

**Lawson NC**. Mechanical properties of core build-up materials. J Dent Res 84(Spec Iss A):1850, 2005.

**ADDITIONAL FORMS OF SCHOLARSHIP**

*Continuing Education Courses*

Lecturer, CE course, *Update to Dental Materials*, Mississippi Dental Association, January 2018

Lecturer, Symposium, *3 second cure composite: results of clinical trial*, Ivoclar KOL Symposium, January 2018

Lecturer, CE course, *Update to Dental Materials*, University of British Columbia Continuing Education Department, November 2018

Lecturer, Sympsoium, *Can you bond to Zirconia?*, Kuraray Symposium, December 2018

Lecturer, CE course, *Update to Dental Materials*, Birmingham District Dental Society, November 2018

Lecturer, CE course, *Contemporary Dental Materials*, New Mexico Veterans Affairs and US Air Force Base, October 2018

Lecturer, CE course, *Contemporary Dental Materials*, Organ Mountain Seattle Study Club, October 2018

Lecturer, CE course, *All about zirconia*, Chattanooga Area Dental Study Club, September 2018

Lecturer, CE course, *Update to Dental Materials*, Washington DC District Dental Society, September 2018

Lecturer, CE course, *Update to Dental Materials*, Southwest Dental Conference, September 2018

Presenter, Summit, *Materials for Geriatric Patients,* Geriatric Dentistry Summit sponsored by P&G and the American College of Prosthodontics, August 2018

Lecturer, CE course, *Update to Dental Materials*, 8th District Dental Society, August 2018

Presenter, Holistic Dental Association, *Update to Dental Materials* (San Diego, CA) April 2018

Lecturer, CE course, *Update to Dental Materials*, Birmingham District Dental Society, March 2018

Guest speaker, CE at Exhibitor booth, Bonding to Ceramic Restorations, Chicago Midwinter Meeting, February 2018

Lecturer, CE course, *Update to Operative Dentistry* with Augusto Robles, 2nd District Dental Society, February 2018

Lecturer, CE course, *Preventive Dentistry*, Washington DC Alpha Omega Clinicians Brunch, January 2018

Lecturer, CE course, *Materials Update*, Fredericksburg Seattle Study Club, November 2017

Lecturer, CE course, *Translucent zirconia*, Spectrum Toronto, October 2017

Lecturer, Hands-On CE course, *Preparing and bonding inlay and onlays*, UAB CE Dept, September 2017

Lecturer, CE course, *Materials Update*, Emory Study Club Atlanta, June 2017

Lecturer, CE course, *Translucent Zirconia*, Lab-Day Chicago, February 2017

Lecturer, CE course, *Translucent Zirconia*, Georgia Academy of Cosmetic Dentistry, February 2017

Instructor, Hands-on CE course, *UAB Direct Restorative Materials Hands-On Course*, January 2017

Presenter, Alpha Omega Clinicians Brunch, *Dental Ceramics: State of the Art* (Atlanta GA) January 2017

Presenter, Alpha Omega Dental Symposium, *New Concepts in Restorative Dentistry* (Chicago IL) July 2016

Lecturer, CE course, *Treatment of Gingival Recession: Restorative and Surgical Approaches*, UAB CE Dept, Sept 2016

Lecturer, CE course, *What’s Wrong with the $65 Zirconia Crown*, UAB CE Dept, Sept 2016 (x2) 2016

Presenter, ICON Investigator Conference*, Clinical Trial of Lesion Progression After Treatment with Icon vs. Placebo in Caries Lesions* (Boston MA) March 2016

Presenter, American Dental Association Standards Committee, *Depth of Cure of Bulk-fill Composite with Monowave and Polywave Curing Lights* (Los Angeles, CA) March 2016

Instructor, Hands-on CE course, *How to Evaluate the Materials in Your Office Part 2*, UAB CE Dept, Feb 2016

Lecturer, CE course, *Preventive Dentistry*, UAB CE Program Huntsville, Sept 2015

Presenter, Indiana University Research Group, *Evaluation of Dental Restorative Materials* (Indianapolis IN) October 2015

Instructor, Hands-on CE course, *Hands-on CAD/CAM*, UAB CE Dept Oct 2015

Lecturer, CE course, *Materials Update*, Alabama, 2nd District Dental Society, Sept 2015

Instructor, Hands-on CE course, *Digital Dentistry*, UAB CE Dept, Oct 2015

Lecturer, CE course, *Material Update*, Alabama 5th District Dental Society, Aug 2015

Lecturer, CE course, *Material Update*, UAB CE Program Montgomery, Sept 2015

Lecturer, CE course, *New Materials in Dentistry*, Huntsville-Madison Study Club, Sept 2015

Instructor, Hands-on CE course, *UAB Indirect Restorative Materials Hands-On Course*, July 2015

Instructor, Hands-on CE course, *UAB Direct Restorative Materials Hands-On Course*, July 2015

Lecturer, CE course, *Material Update*, Alabama 8th District Dental Society, May 2015

Lecturer, CE course, *Bondodontics*, Nashville Benco through UAB CE Dept, April 2015

Instructor, Hands-on CE course, *How to Evaluate and Handle the Materials in Your Office*, UAB CE Dept, Feb 2015

Lecturer, CE course, *New Materials in Dentistry*, UAB Dentistry Update, Aug 2014

Lecturer, CE course, *An Update in Adhesives and Composites*, Sarrell Study Club, 2014

Lecturer, CE course, *New Materials in Dentistry*, Alabama 4th District Dental Society, Nov 2014

Instructor, Hands-on CE course, *UAB Direct Restorative Materials Hands-On Course*, Aug 2014

Instructor, CE course, *Fluoride Materials*, 2014 Dental Hygiene Symposium and Hinman Lecture, Aug 2014

Lecturer, CE course, *Dental Material Update*, Alpha Omega Chicago Dinner, March 2014

Lecturer, CE course, *Pediatric Dental Materials*, Sarrell Dental Clinics , 2012

*Digital Presentation*

Podcast, *Nate Lawson DMD, PhD, Director of Biomaterials UAB School of Dentistry talks dental materials*, Dentistry Uncensored with Howard Faran, January 2019

Podcast, *Dental Ceramics: Zirconia, The Surface Treatment of Dental Ceramics, and Cementing Dental Ceramics*, Viva Learning, November 2018

Web interview, Polishing speeds for zirconia, Canadian Dental Association Oasis Discussions, August 2017

Live Webcast, *New Concepts for Direct Restorations*, Institute for Advanced Dental Education, June 2016

Digital Review Course, *Restorative Treatments for Adolescent Patients*, Foundations in Pediatric Dentistry, 2016

Webinar, *Dental Ceramics*, Dental XP, 2014

Live Webcast*, Bonding All Ceramic Materials*, Institute for Advanced Dental Education, 2014

*Reviewing/Judging*

Session chair, Dental Ceramics Session of 2016 AADR Meeting, Los Angeles, CA, March 2016

Journal Reviewer, Journal of Dental Research, 2016

Journal Reviewer, Operative Dentistry, 2016

Journal Reviewer, Journal of Adhesive Dentistry, 2016

Journal Reviewer, Journal of Prosthetic Dentistry, 2015-6

Journal Reviewer, Journal of Esthetic and Restorative Dentistry, 2014-6

Journal Reviewer, Dental Materials, 2012-6

Journal Reviewer, Journal of Biomedical Materials Research, 2012-6

Judge, UAB Scholar’s Symposium, 2012, 2014, 2016

Session chair, Polymerization Shrinkage and Wear Session of 2011 IADR Meeting, San Diego, CA, March 2011.

Abstract reviewer, Dental Materials Section of the 2009 AADR Annual Session, Miami, FL, March 2009

Judge, NSRG Caulk Dentsply Competition – Clinical Science Category, Miami, FL, March 2009

*Externships/Courses:*

Northern Lights Light Curing Summit, NIOM (Oslo, Norway) July 2018

Global Laboratory Expert Network, Dentsply Sirona (Frankfurt, Germany) July 2018

Global Advisory Meeting, Dentsply Sirona (Zurich, Switzerland) May 2018

Color Matching Curriculum, SCAD (Chicago, IL) September 2016

Program for Emerging Academic Leaders, ADEA (Freeport, ME) July 2016

Digital Dentistry Exchange, 3M ESPE (St Paul MN) October 2015

ICON International conference, DMG , (Boston, MA), March 2015

ICON International conference, DMG (Hamburg, GE), July 2014

Surgical Implant CE Course, Alabama Implant Education (Atlanta, GA) May 2014

Externship, Caulk Dentsply (Milford, DE), July 2010

Fractography course, NIST/Paffenberg Research Center (Bethesda, MD) May 2008

Externship, 3M ESPE (Seefeld, GE) July 2006