



Casandra Tessaro,
D.M.D. '10

Alumna Returns as Volunteer Faculty

After graduating from the school of dental medicine in 2010, Cleveland native Casandra Tessaro received her advanced specialty training in endodontics at the University of Pennsylvania. During this time, she also worked in a private practice limited to endodontics and served as an instructor at Penn's Microscope Training Center, where participants from around the world are instructed in the use of microsurgical techniques.

Currently, Dr. Tessaro works with Dr. Anthony Bastulli as a part of Cleveland Leaders in Endodontics (CLE), a dental practice focusing exclusively on endodontic care. She is located in CLE's Mentor office while he practices in Mayfield Heights. In addition, Dr. Tessaro is an active member of the American Association of Endodontists, the American Dental Association, the Ohio Dental Association, and the Northeast Ohio Dental Society.

"I truly love what I do. I am so fortunate to be welcomed into the outstanding academic community at Case Western Reserve University's Department of Endodontics. As an alum, I look back on the impact that great mentors like Dr. Mickel had on my career path. I now have the opportunity to give back to the academic community and share my knowledge and experience as a young professional."

www.tessaroendo.com



JOIN THE *MOLAR CLUB*
AND SUPPORT YOUR
DEPARTMENT

Our residents and fellows regularly place in the top ranks of CWRU's Professional Day, the Ohio Dental Association's yearly table clinics, and the annual poster session of the American Association of Endodontists, reflecting our success on campus and across the country. Making it possible for our students to attend these forums and present their research not only enhances individual professional development—it is integral to the department's well-earned reputation.

Because such participation requires additional departmental funding, we have established the Endodontic Discretionary *Molar Club*. Your donation of \$1,500—an amount that equals the approximate cost of one molar root canal treatment fee—will help to keep our residency program first-rank. Gifts may be fulfilled over a three-year period.

Join us in giving back and ensuring that the dental school—and endodontics—remain pacesetters in both education and research. All graduates, faculty, and friends are invited to join this effort. If you have any questions, do not hesitate to call Dr. Mickel or Simon Bisson in the Development Office at 216-368-3923 or simon.bisson@case.edu.

Serving Our Community's Youth

Dr. André Mickel is the current president of Health Legacy of Cleveland, a non-profit organization dedicated to supporting professional medical education for underrepresented minorities and to eliminating health care disparities. In December, the Department of Endodontics, together with West Point Academy, hosted 40 students at the dental school from the Cleveland Metropolitan School's STEM program.

At the upcoming (March 30) Dentistry Day that brings high school seniors to the dental school to learn about the profession, Dr. Mickel will be the featured speaker.

www.healthlegacyofcleveland.org



Local students are introduced to dentistry through hands-on experience at the school of dental medicine.



SCHOOL OF DENTAL MEDICINE
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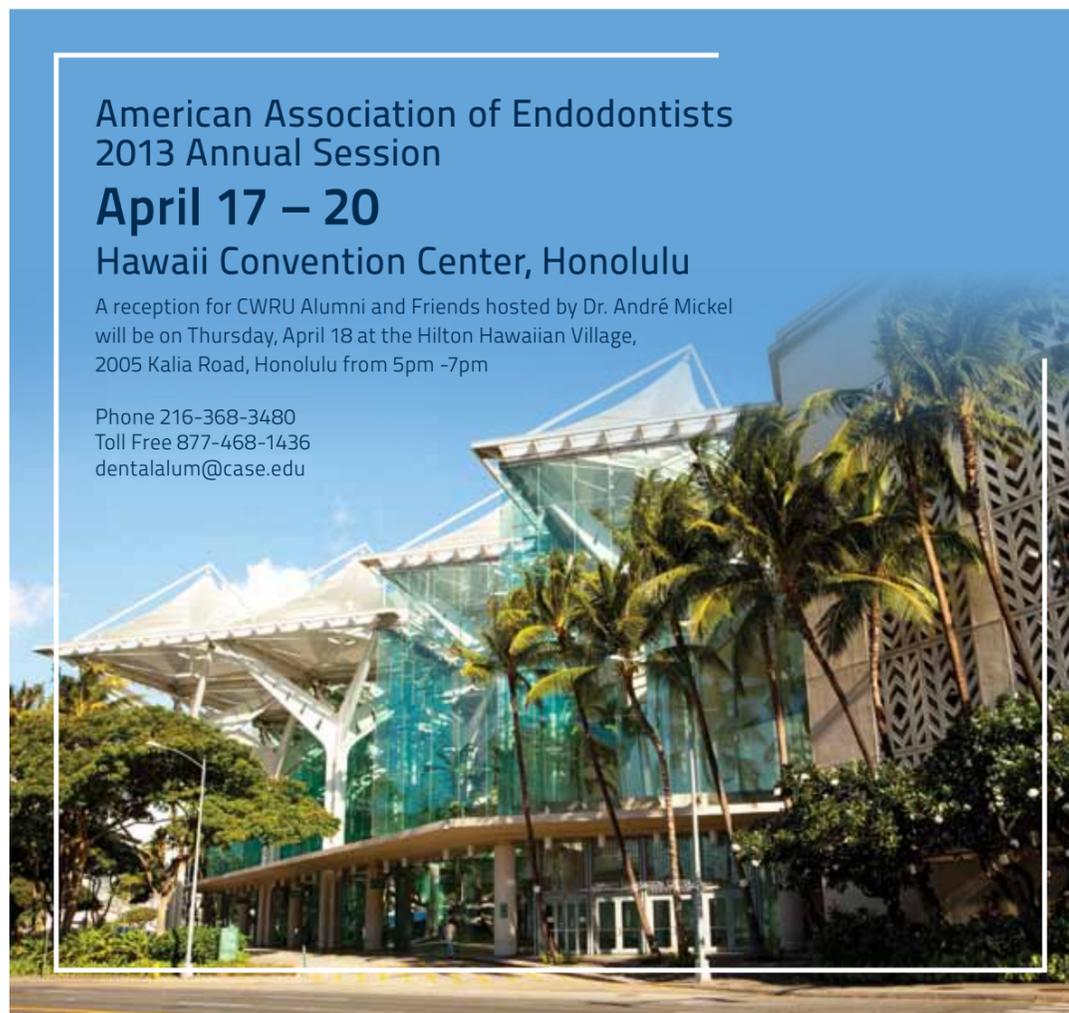
Department of Endodontics
10900 Euclid Avenue
Cleveland, Ohio 44106-4905

Save The Date & Join Us

American Association of Endodontists 2013 Annual Session April 17 – 20 Hawaii Convention Center, Honolulu

A reception for CWRU Alumni and Friends hosted by Dr. André Mickel will be on Thursday, April 18 at the Hilton Hawaiian Village, 2005 Kalia Road, Honolulu from 5pm -7pm

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Dr. André K. Mickel, D.D.S.,
M.S.D., '91, '94

Endodontics News 2013

From the Chairman The Importance of Giving Back

When contemplating the achievements that our department has enjoyed this year, a striking theme emerges: giving back. I would like to acknowledge the alumni, colleagues, and friends who give of their time and resources—such generosity is essential to our fiscal well-being. Equally important, it reflects a tradition of service that enhances our department, school, and profession.

First, I extend my appreciation to the volunteer faculty members who make a critical contribution to the quality of our instruction. You will read here about our newest volunteer, Dr. Casandra Tessaro '10, who joins Drs. Rubin Gutarts (Ohio State University), Nivine Y. El-Refai-Hassan '00, Dania Kafri '07, Harris Levine (University of Maryland), Igor Kantorovich '04 and Jeremy Wilde '12. The value of their service can be calculated not only in economic terms, but in the larger, real-world perspective they bring to our students.

Because additional funding is required in order for our first- and second-year residents and fellows to present their research at the upcoming AAE Annual Session and other important venues during the year, we have established the *Molar Club*. Do consider joining today to support those who follow in your footsteps and ensure the future reputation of our department.

I would also like to personally thank Joong Hee Hahn, D.D.S., M.S.D. '90,'92 and his wife Hui-Jin Lee, D.D.S., M.S.D., '92,'95, for their generous philanthropy to the school and respective departments of endodontics and peridontics. Inspired by his mentor and my predecessor, Dr. Jefferson J. Jones, Dr. Hahn holds the sincere belief "that everyone should help

each other along the way." It is a sentiment that perfectly captures the essence of giving back.

Finally, I could not require community service of our students without leading the way. I am privileged to serve *Health Legacy of Cleveland* and am grateful for our department's involvement in this worthy organization.

Let us hear from you. I extend my personal invitation to join me at our reception (April 18) at the AAE Annual Session in Honolulu.



Dr. Mickel and Dr. Hahn



SCHOOL OF DENTAL MEDICINE
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Introducing New Fellow and Residents

2013-14 Fellowship



Long V. Nguyen

Currently a fourth-year dental student at CWRU, Long will remain at CWRU as a one-year fellow. Born in Vietnam, he studied pre-dentistry at California State University (Fullerton) and will graduate from the CWRU Dental Medicine Program in 2013.

I chose to be an endodontic fellow at CWRU because after working with all the residents, staff, and faculty, they not only motivated me to explore the many interesting and challenging aspects of endodontics, but also made me feel like a family member in their enthusiasm in passing on all their dental knowledge. I am honored to be able to have the opportunity to continue here as a fellow.

2013-15 Two-Year Residents (beginning July 2013)



Caroline Ghattas Ayoub, B.D.S.

Upon completing a one-year fellowship in endodontics at CWRU, Dr. Ayoub is set to begin her residency. Born in Saudi Arabia, she received her B. Sc. from the October 6 University in Egypt and is an Egyptian citizen.

I was strongly impressed with the level of education being taught by the faculty members in the endo department at CWRU after my first visit. Endo has always been a passion and knowing that a program like this one would lead me to being a skillful specialist with evidence-based knowledge motivated me to be a part of it. My professional goal is to become board certified and open a private practice with my husband who is in the periodontal residency here.



Jarid A. Burley

Washington-state born, Jarid graduates this summer with a D.M.D. from the Oregon Health Sciences University (Portland) together with wife Katie Burley, D.M.D. who will receive her Certificate in Endodontics. Upon graduation, they will arrive in Cleveland with their recently born son. Jarid received a B.S. in Agricultural and Resource Economics from Oregon State University.

My primary reason for choosing CWRU was the noteworthy reputation it has among endodontists and that people spoke very well of Dr. Mickel. In addition to practicing endodontics, I am interested in helping to shape the future of the profession by being active in organized dentistry, as well as teaching and remaining involved at the university level.

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Candace K. DeVeaux, D.D.S.

A Florida native, Dr. DeVeaux earned her B.S. in Biology from the University of Kentucky and her dental degree from Meharry Medical College in Nashville. She is currently a general

dentist at the U.S. Army Colonel Bull Dental Clinic in Fort Lee, Virginia.

After observing multiple programs, I chose CWRU because of the great things I heard about the university and its Endodontic Residency Program, including its outstanding preparation for board certification. The graduates I meet have the highest regard for the program. Since my preclinical years at dental school, I have found endodontics interesting and intriguing, making it my specialty of choice.



Bernardo F. Sarmiento, D.D.S.

Born in Los Angeles, California, Dr. Sarmiento received his D.D.S. from Universida Autonoma de Guadalajara, Mexico in 1998 followed by an Internship in Oral and Maxillofacial Surgery/

Dental Public Health/Community Dentistry at Hospital General de Occidente. In 2009 he had a Fellowship in Implantology at Loma Linda University and recently received his AEGD Certificate at the University of Rochester Eastman Institute for Oral Health.

I selected CWRU because of its prestigious background and its reputation for educating and training residents to become well-qualified and competent professionals. Endodontics is my passion because it is my conviction to help patients by preserving as much of their natural dentition as possible.

AAE 2013 Poster Presentations

by CWRU Endodontic Residents

Outcome assessment of endodontically treated teeth in relation to gender and age differences

Mohammed O. Bakkar, B.D.S., A.G.D.

The purpose of this study was to look into the fate of endodontically treated teeth in relation to gender and age differences using a sample of active clinic patients between July, 2006 and June, 2007. In this study, males were four times more likely to require extraction of endodontically treated teeth. Only patients older than 45 years had extracted teeth.

Tooth type, endodontic diagnosis, and tooth survival

Thomas R. Bigelow, D.M.D.

The purpose of this retrospective cohort study was to determine the outcome or fate of endodontically treated teeth and evaluate correlations, if any, with endodontic diagnosis or tooth type. Charts of active clinic patients who received endodontic treatment between July, 2006 and June, 2007, were reviewed. Tooth type, date of endodontic treatment, pulpal and periradicular diagnosis, and timing of any subsequent dental procedures (type restoration, periodontal treatment, extraction, etc.) were documented. Statistical analysis showed no significant association between tooth type, endodontic diagnosis, and tooth survival. Regardless of the preoperative endodontic diagnosis in this study, teeth that were permanently restored had a five year survival rate of 98%.

Gender differences and endodontic diagnosis

Yoo Kyeom "Robert" Huh, D.M.D.

Limited studies have evaluated the gender differences among patients with regard to a specific endodontic diagnosis. The purpose of this study was to explore the distribution of patients requiring endodontic treatment. The endodontic disease progression is a multifactorial event. This study suggests that future consideration should be given to gender differences as a potential modifier in endodontic disease progression. Whether the discrepancy arises from a biological/hormonal difference, a social/psychological difference, or a behavioral difference, further investigation is necessary to understand how these factors affect the endodontic disease progression.

Effect of C-phycocyanin on the expression of TNF- α in lipopolysaccharide treated THP-1 derived macrophages

Sheetal Satish Kalokhe, B.D.S.

C-Phycocyanin, a biliprotein found in blue-green algae such as *Spirulina platensis*, is used as a dietary nutritional supplement due to its therapeutic value. Because TNF- α plays an important role in inflammatory reaction and alveolar bone resorption, our objective was to evaluate the effect of C-phycocyanin on induction of TNF- α in THP-1 derived macrophages. Results of the study showed that TNF- α production was decreased significantly with treatment of the LPS treated macrophages with C-phycocyanin at a concentration of 5 μ l/2ml. C-Phycocyanin reduces pro-inflammatory cytokine production and therefore may have a therapeutic effect in apical periodontitis.

Assessing pre- and post-operative cardiopulmonary function in endodontic patients undergoing moderate sedation

Sarah Kwang, D.D.S.

Adjunctive/alternative techniques maybe required to manage the anxious patient in endodontics. Moderate sedation provides a drug-induced reduction of consciousness in which the patient retains the ability to independently and continuously maintain airway and respond to physical stimulation or verbal commands in an outpatient setting. Considering the prevalence of cardiac and pulmonary conditions within society, to ensure the safety of all patients, dental clinicians should become familiar with managing complications of patients undergoing moderate sedation.

Effect of spirulina-derived protein C-phycocyanin on the expression of IL-1 β cytokine, in e-coli lipopolysacchride treated THP-1 derived macrophages

Pranali R. Patil, B.D.S.

C-phycocyanin is one of the major protein constituents of *Spirulina*, a microalgae used in many countries as a dietary supplement. Its nutritional and therapeutic values have been very well documented—antioxidant, anti-inflammatory, neuroprotective, and hepatoprotective effects have been experimentally attributed in *in vitro* animal studies. IL-1 β is a potent pro-inflammatory cytokine produced in large quantities by macrophages and other cells. The purpose of our study was to evaluate the anti-inflammatory effect of C-phycocyanin on the expression of the cytokine IL-1 β in human acute monocytic leukemic cell [THP1 cell] derived macrophages.

Our study showed no significant effect of C-phycocyanin on the expression of IL-1 β , thus suggesting that it may not be effective in treating inflammatory bone resorption of endodontic origin. Further studies are required on the effect of C-phycocyanin on other pro-inflammatory cytokines.

Association of endodontic conditions with systemic medical disease

Samer Safadi, D.D.S., M.S.

The aim of this study was to determine if an association existed between endodontic periradicular conditions related to pulpal diagnoses and various systemic medical conditions and tobacco use. Subjects were randomly selected from clinic patients from 2008 to present. Patients' systemic medical conditions and smoking history were documented. In addition, both the pulpal and periradicular diagnoses were recorded. Statistical univariate analysis results revealed that several systemic diseases showed a significant association with endodontic periradicular diagnoses, including heart disease, diabetes, hematologic disorders, and liver disease. Tobacco use was also significantly associated with symptomatic apical periodontitis and acute apical abscess. These findings support that a number of systemic conditions and smoking are closely associated with the endodontic periradicular diagnosis. Screening and monitoring for systemic disease risk in endodontic patients are valuable components for more effective disease prevention and control.

Analysis of moderate sedation: a retrospective observational study

Madhavi R. Setty, B.D.S.

The objective of this study was to conduct a retrospective analysis to assess moderate (IV/oral) sedation cases. We hypothesized that combination of different agents will be used in different patients to achieve moderate sedation in patients with American Society of Anesthesiologists (ASA) ratings of ASA2 or ASA3. The following information was gathered: medical history/ASA, Mallampati classification, reason for IV sedation, medications, and dosage used, sedation failure, and complications. After statistical analysis was performed, it was concluded that IV sedation is a valuable tool and most commonly sedated patients are ASA2 or ASA3 (with anxiety), understanding the pharmacodynamics and managing medical complications is very important for a clinician working on a sedated patient.

CLASS NOTES

1999

Alex Mihailoff married his lovely wife, Daniela in 2010 and now both are proud parents of twin boys, Boris and Alex, born on February 8th, 2012.
mihailoff.alex@gmail.com



Ronald Taylor says his education at CWRU was "a key that unlocked the door to a world of infinite possibilities." He serves as a mentor with the College of Diplomates. He and his wife, Chalisa have two children and live in Crownsville, Maryland.
Rctendo99@hotmail.com

2000

Bijan Pourjamasb lives with his wife, Nahid in Irvine, California. In his spare time he plays tennis while also coaching his sons' soccer team. He calls his CWRU education "top notch" and says he is very lucky for the opportunity.
drbijan@bpmicroendo.com

2011

Marcus Johnson is an associate in private practice in Long Island owned by one of his mentors, Dr. Albert Granger. In addition, he has started working a couple of days a week under his newly formed entity City Endodontics PLLC. He is active in organized dentistry at the local level serving as an alternate delegate for the Nassau County Dental Society. In April, he successfully completed the oral board component on his way to becoming a board certified endodontist and is in the process of submitting his case portfolio to complete the requirements.



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