



**The New York Academy of Dentistry
Endowment Fund, Inc.
Thursday, November 14, 2019
8:00 P.M.**

FROM 3D PRINTING OF RESTORATIVE MATERIALS TO ENGINEERING OF
DENTAL TISSUES – MOVING TOWARDS THE FUTURE OF DENTAL CARE

LUIZ E. BERTASSO, DDS, PHD

While 3D printing of materials for non-restorative use has become a common finding in dentistry, chair side printing of restorative materials is still in its nascent years. In this talk we will discuss the characteristics that make 3D printing an advantageous fabrication method for restorative dentistry, and present new examples of printed dental resins, composites and ceramics that are already in use both clinically and in pre-clinical models. We describe how this technology is likely to change the landscape of dental care in future years. In addition, we will describe recent advances and evidence-based developments in the area of dental tissue regeneration, including dental pulp, periodontal, and bone regeneration, as well as whole-tooth tissue engineering using stem cells. Ultimately, this talk should provide the audience with sufficient knowledge to envision what the future of dental care may look like in a short to medium term.

Dr. Luis Bertassoni graduated with a DDS degree from Pontifical Catholic University of Parana (PUCPR) in Brazil, obtained a PhD in Biomaterials and Bioengineering from the University of Sydney, and two postdoctoral degrees from the University of California San Francisco and the Harvard-MIT Division of Health Sciences and Technology. Currently, Dr. Bertassoni is an Assistant Professor at Oregon Health and Science University-School of Dentistry, He also holds appointments at the OHSU Center for Regenerative Medicine and Department of Biomedical Engineering at OSHU School of Medicine. He is also an honorary lecturer in Biomaterials and Bioengineering at the University of Sydney School of Dentistry.

Dr. Bertassoni leads a multidisciplinary research group working on various aspects of biomaterials and tissue engineering. His recent work on bioprinting for vascularization of tissue engineering constructs has received extensive attention in the popular media, including Fox News, BBC, The Guardian, Fox Business, wired.com, Tech Crunch, etc., and was recently selected as one of the top 100 science stories of 2014 (#64) by Discover Magazine. He is a recipient of over 20 national and international research awards, 9 competitive research grants and has received over \$3 million in research funding.

Dr. Bertassoni currently serves as an ad-hoc reviewer or editorial board member for over 40 journals. Dr. Bertassoni's research studies the use of micro-scale technologies and bioprinting for tissue engineering; nanoscale structural and mechanical properties of mineralized tissues; and different aspects in the field of 'organs-on-a-chip'.

Educational Objectives:

1. Describe the methods of 3D printing of restorative materials and their inherent advantages over conventional milling
2. Describe how stem cells have been used to regenerate dental pulp, periodontal and whole teeth
3. Determine the efficacy of regenerative approaches based on available evidence from existing literature
4. Characterize current and future developments and technologies in dental care

Disclaimer:

1. To our knowledge and based on information received from Dr. Luiz Bertassoni, there are no financial relationships between Dr. Luiz Bertassoni and any commercial sponsors.
2. All clinical activities offered are grounded in scientific evidence that is accepted within the profession of dentistry and any known risks and benefits of any clinical recommendations discussed in the CE activity will be presented.

At this meeting we will be welcoming students representing Stony Brook University College of Dental Medicine

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Dinner will be served promptly at 6:45 p.m. at the Union League Club, 38 East 37th Street, New York City. Please note that the dinner price is \$110.00 per person.

Checks should be made payable to the order of the New York Academy of Dentistry Endowment Fund, Inc., and mailed to the New York Academy of Dentistry, 426 Hudson Street, Hackensack, NJ 07601. You may also pay with a credit card (VISA, MasterCard or American Express) and indicate the number and expiration date on the enclosed form.

Reservations **MUST** be made in advance in order that proper service be assured.

PLEASE NOTE: Requests for reservations, special meals and cancellations must be made 72 hours in advance. No special meal requests can be honored if not ordered in advance of the meeting.

BUSINESS ATTIRE IS REQUIRED AT MEETINGS

Udo Schutte and Anne Kossawan

Co-Chairs Dinner Committee

Associate Fellows are required to attend two meetings annually

CANCELLATION POLICY: Full refunds will be granted if cancelled 72 hours prior to the meeting date. "No-shows" will not receive a refund. No refunds will be issued on site.



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Please complete the portion below and return it to our office along with a check or credit card information for **\$110.00 per person.**

This reservation form must be received no later than **Monday, November 10, 2019.** Reservations after that date **cannot be guaranteed.** In addition, a **\$10 per person penalty will be added to the fee as well as if registering at the door.**

You can either register online (www.nyaod.org) or download this form and mail it back to the address below. It can also be faxed to 201 440 7963.

Dr. _____

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Please reserve places for me and my guests whose names are:

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