



Australian Society of Periodontology NSW Sub Branch Full Day Meeting

Friday 17th October 2025 | 8.30am - 5.00pm Swissotel Sydney

Implant Dentistry as a Design Discipline: Potential and challenges of a new digital paradigm

Dr. Nikos Mattheos DDS, MASc, PhD

Dental implants are in the centre of a biologically active system, which constantly interacts with human tissue and microbes, supporting function and aesthetics in a delicate balance between biology and technology. The introduction of the Digital Workflow for the planning and execution of implant therapy has empowered unprecedented possibilities to design comprehensively and achieve fast and predictable treatment outcomes with implants.

With a series of presentations, we will examine the major paradigm shifts in implant dentistry brought on by the new digital technologies, aiming to identify the true “game changers”. We will discuss the concept of “P4” implant dentistry and all the steps it involves as a complete workflow. We will dissect the evidence on how our design choices can impact tissue health and clinical outcomes in the long term and identify the critical principles of implant planning which can safeguard success. We will then analyse the current state of the art in guided implant surgery either as static, dynamic or robotic. Technologies and protocols will be critically assessed, aiming to help clinicians identify the right approach for their practice. Finally, we will dive into the application of artificial intelligence algorithms in implant dentistry and discuss the potential benefits for the clinician, but also the confusion, the hype, misunderstandings and associated risks.



Dr. Nikos Mattheos

Nikos is a periodontist, researcher, academic teacher and digital entrepreneur. He is currently the Visiting Professor of Implant Dentistry at Chulalongkorn University, Bangkok, Thailand, Honorary Professor of Periodontology and Implant Dentistry at the University of Hong Kong and affiliated researcher with the Faculty of Dental Medicine, Karolinska Institute, Sweden. He maintains private practice focused on oral rehabilitation and implant dentistry in Hong Kong, where he is also a director of a Startup in digital dental technology.

His recent research evolves around emerging technologies and digitisation of implant therapy, impact of prosthesis design on clinical outcomes, computer assisted implant surgery and tissue regeneration among others. His research is disseminated through more than 170 publications in international peer reviewed journals and he has received numerous awards, including the International Association of Dental Research researcher's award in 2003 and 2013 and the Andre Schroeder Award in 2014 and 2021. He is Associate Editor of the International Journal of Prosthodontics and past editor-in-chief of the ITI Academy.

Date: Friday 17th October 2025

Time: Registration 8.00am for an 8.30am start

Location: Swissotel Sydney, 68 Market Street, Sydney

Cost: \$160 Members or \$700 non-members

RSVP: Register by 1/10/2025 to aspnsw@asp.asn.au

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