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Presentation Date:	Thursday, 10 May 2018 11:00 AM - 12:00 PM & 4:30 PM - 5:30 PM
Venue	SMX CONVENTION CENTER, MANILA, Function Room 5
Presentation Title:	BIOACTIVE DENTISTRY : THE FUTURE IS NOW
	<p>The concept of Bioactivity has been refined in recent years. We now say that a bioactive material is one that elicits a biologic response that forms a natural bond and a surface layer of apatite at the tooth-material interface in the presence of saliva. Enamel and Dentin undergo continuous demin-remin cycles and are subject to caries, stresses and micro-cracks due to occlusal forces, rotary instruments, and microleakage of existing restorations. Apatite formation can help heal these deformities with a kinetic response from the tooth-material complex.</p> <p>Bioactive materials that behave favorably in the moist oral environment, neutralize conditions that cause dental caries, provide prevention benefits, and maximize the potential for remineralization have been enthusiastically welcomed the world over and have rapidly become a core part of dental care.</p> <p>What is most important about the material is that it loves tooth structure, integrates and penetrates and intimately adapts to tooth structure. Dentists who have used this material, say that the material "appears to melt into the enamel." Margins are undetectable. The patented rubberized resin molecule adds remarkable toughness never seen before in a dental restorative material, absorbs shock and stress, and resists fracture and chipping. Similar to a radial tyre, it serves very much the same function as dentin and the periodontal ligament. ACTIVA also releases and recharges significant calcium, phosphate and fluoride in the oral environment. This fortifies the saliva with essential tooth-building minerals and stimulates apatite formation and the natural remineralization process, forming a bond and seal against microleakage and secondary caries, and helping to repair teeth during rising pH cycles. So ACTIVA is biomimetic, plays a dynamic role in the mouth, and for these reasons, it is considered a "smart" material.</p> <p>This lecture presents the first esthetic Bioactive range of dental materials , that imitate nature & participate in the dynamic ionic exchange with saliva and tooth structure, and helps to heal and seal the tooth.</p>