AAO Foundation Award Final Report

Principal Investigator	Raymond E. Siatkowski, BEE, ME, DMD
Co-Investigator	, , , , , , , , , , , , , , , , , , , ,
Secondary Investigators	
Award Type	Biomedical Research
Project Title	Closing Loop Design, Optimization & Verification
Project Year	1994-1995
Institution	University of Otago, NZ
Summary/Abstract (250 word maximum)	A continuous archwire loop for space closure having an inherent moment-to-force (M/F) ratio of $8.1-9.0$, the level of M/F necessary for en masee translation of average size teeth absent marginal bone loss, was designated using Castigliano's Theorem, optimized using the Finite Element Method, and verified by measurements of actual size loops in various sizes of stainless steel and TMA. Findings and further study of the loop was published (see below).
Were the original, specific aims of the proposal realized?	Yes
Were the results published? If not, are there plans to publish? If not, why not?	Yes: AJO-DO, 2 Parts 112(4): 393-402, 1997 112(5): 487-495, 1977 Semin Orthod 7:141-149, 2000
Have the results of this proposal been presented? If so, when and where? If not, are there plans to do so? If not, why not?	Yes. University of Louisville 1995; UPA 1996, Australian AO 1996; UNC 1996; Harvard 1996; Marquette University 1997; AAO Philadelphia 1997; University of Connecticut 1997; University of Arhus 1997; Angle Society (Boston) 1998; Eastman Dental School 1998; Indiana University 1998; AAO Dallas 1998; AAO San Diego 1999; University of Missouri KC 1999; Ohio State University 1999, university of North Carolina 1999; Indiana University 2000 & 2006.