

Fernando Tomasel received a Masters Degree in Physics from the Universidad Nacional de Mar del Plata (Argentina) in 1989. After working in analytical modeling of inertial confinement laser fusion targets for about two years, he moved to Fort Collins where he received Master and PhD degrees in Electrical Engineering from Colorado State University. His Master's degree thesis included the results of the first demonstration of soft x-ray lasing in argon capillary plasmas pumped by fast, high power pulsed discharges. During his PhD, he demonstrated for the first time lasing action in Ne-like S ions by capillary discharge excitation of sulfur vapor produced by ablation of a solid target. He also investigated the effects of intense, pulsed magnetic fields in the lasing dynamics of capillary discharge lasers.

After receiving his PhD he returned to Argentina, where he became Associate Professor at the University of Mar del Plata. His research work during the 1998-2001 period included non-destructive optical diagnostics, fiber optic sensors, and application of neural networks to the analysis and modeling of ecological data. During this period he received grants as PI or co-PI from the Antorchas Foundation and the Agencia Nacional de Promocion Cientifica y Tecnologica (Argentina), and the Inter-American Institute for Global Change.

In 2002 he returned to Colorado to work for Advanced Energy, Inc, where he has held positions as both researcher and manager for R&D and Product Development groups. He is currently Head of the New Technology Introduction Group for RF Products and Plasma Sources. He is also an Adjunct Faculty member volunteering at the ECE Department, Colorado State University, and a member of the Industrial Advisory Board for the same Department.

Dr. Tomasel is author or coauthor of about 30 journal articles with a total of approximately 1000 citations as of Dec 2010. He has also coauthored a number of papers in proceedings and conference presentations, and he holds 10 US patents. Besides research, he also likes teaching. He has been heavily involved in teaching at different levels, from Kindergarten to College. He remains actively interested in the subject of teaching and popularization of Science and Technology.

Dr. Tomasel is married to María Cecilia Milano. They have two children, Pedro and Camila.

Additional bio information is available at <http://www.linkedin.com/in/fernandotomasel>.