

## TODD SILER

Ronald Feldman Fine Arts, Booth 844 at The Armory Show Pier 94

March 6 - 9, 2014

### *NanoWorld*

Todd Siler, trained in the visual arts and sciences, transforms the Feldman Gallery booth into an environment of related artworks to contemplate the nature of our current NanoWorld. In collaboration with Geoffrey Ozin, widely regarded as a founding father of the field of Nanochemistry, Siler explores the science that helped give form and function to today's astonishing technological innovations (exemplified by solar cells, fuel cells, batteries, medicines that help fight cancers, and environmental devices for improving global climate control) and offers visionary proposals for the future.

This exploratory work delves into the “materials to nanomaterials” paradigm shift that's underway, in which “thinking Small is the next big thing”!

The artworks are metaphors for what cannot be seen by the naked eye and are only visible by advanced microscopy analytical tools.

Imaginative paintings and monotypes, together with aluminum sculptures — created by a unique printing/painting process — interpret the process of designing and producing nanomaterials for a multitude of practical applications. The artworks conceptualize the synthesis of nanomaterials, which Siler enlarges three billion times their size as a way of seeing these .

Startling images of transformed circles, spirals, and other synthetic vaguely familiar shapes combine with images from nature, sometimes in random ways, such as *The Golden NanoLeaf*. Brilliantly-colored abstract fields convey the energy of nature's connectivity and creations. Symbolic, neural-like sculptures serve as a sort of scaffold for supporting the conceptual design of nanomaterials, reflecting the human mind and nature's plasticity.

Emergent concepts adventured include the invention of a *Periodic Table of Nanomaterials* depicted in the form of a series of concentric nested spheres, or rendered as a kaleidoscope, as well as *Growing Possibilities for Artificial Photosynthesis*, point to a clean, renewable energy system and highlight an example of nanoscience applied to meet urgent global challenges. Siler's art emphasizes the possibilities of realizing nature's creative potential.

His invented word and practice “Metaphorming” describe the creative process of connecting and transforming all information in personally meaningful and useful ways—as evidenced by one all-encompassing artwork titled: *You, Me, We are All Parts of the Whole Nanoworld*.

In 2011 Geoffrey Ozin and Todd Siler co-founded ArtNano Innovations, meeting by chance at the World Cultural Council's Awards Ceremony at the University of Tartu in Estonia where Dr. Ozin received the Albert Einstein World Award for Science at the same time Siler received the 2011 Leonardo da Vinci World Award of Arts.

The Feldman Gallery has represented Todd Siler since 1981. Siler recently presented his work on ArtScience at the Aspen BrainLab Forum at The Aspen Institute. His artworks are in the collections of the Solomon R. Guggenheim Museum, The Metropolitan Museum of Art, The Museum of Modern Art, the Whitney Museum of American Art, and the Picower Institute for Learning and Memory at M.I.T. His published books include *Breaking the Mind Barrier* (Simon & Schuster) and *Think Like a Genius* (Bantam Books). A Forum Fellow and presenter at the World Economic Forum in Davos, Switzerland, Siler holds a number of patents on a wide range of inventions. He received his Ph.D. in Interdisciplinary Studies in Psychology and Art from M.I.T. Siler and Ozin have an expanded exhibition, "Metaphorming Nature," scheduled for the University of Colorado Art Museum in Boulder, August - November, 2014.

Geoffrey Ozin studied at King's College London and Oriel College Oxford University. Currently he is the Tier 1 Government of Canada Research Chair in Materials Chemistry and Nanochemistry, Distinguished University Professor at the University of Toronto, and a Founding Fellow of the Nanoscience Team at the Canadian Institute for Advanced Research. Internationally he has been Honorary Professor at The Royal Institution Great Britain and University College London, Alexander von Humboldt Senior Research Fellow at the Max Planck Institute for Surface and Colloid Science, Golm Germany. Presently, he is Distinguished Professor at Karlsruhe Institute of Technology and Inaugural Global Chair at Bath University. He is renowned for pioneering research and teaching accomplishments in nanochemistry that defined, established and popularized this rapidly expanding cross-disciplinary field, a cornerstone of modern chemistry and a foundation for innovative nanotechnology in materials science, engineering and medicine. He is co-author of the textbook, *Nanochemistry: A Chemical Approach to Nanomaterials* (Ozin, Arsenault, Cademartiri) published by the Royal Society of Chemistry (RSC). He has won many National and International Awards most recently being nominated for the 2014 Kavli Nanoscience Prize in recognition of the originality and significance of his visionary work in the field of Nanochemistry.

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