

Scott A. Wilber
Abridged Vitæ*
April 23, 2018

PROFESSIONAL EXPERIENCE:

1969-1972: USAF. Held Top Secret security clearance doing highly classified work for the US government. Reporting Identifier (RI) 99125. This work was exempt from automatic downgrading, so is still secret today.

1972-1978 Researcher in the Department of Electrical Engineering at the University of Colorado, Boulder.

Published papers:

S. Geller, P. M. Skarstadt, and S. A. Wilber, [Conductivity and Crystal Structure of \$\(C_5H_5NH\)_5Ag_{18}I_{23}\$ A Two-Dimensional Solid Electrolyte](#), *J. Electrochem. Soc.* **122**, (3) 332 Mar. (1975)

S. Geller, J. R. Akridge, and S. A. Wilber, [Crystal structure and conductivity of the solid electrolyte \$\alpha\$ - \$RbCu_4Cl_3I_2\$](#) , *Phys. Rev. B* **19**, 5396 (1979)

S. Geller, S. A. Wilber, *et al.*, [Anisotropic electrical conductivity and low-temperature phase transitions of the solid electrolyte \$Ag_{26}I_{18}W_4O_{16}\$](#) , *Phys. Rev. B* **21**, 2506 (1980)

S. Geller, J. R. Akridge, S. A. Wilber, [\$NH_4Cu_4Cl_3\(I_{2-x}Cl_x\)\$, A New Highly Conducting Solid Electrolyte](#), *J. Electrochem. Soc.* **127**, (2) 251 Feb. (1980)

S. A. Wilber, S. Geller, and G. F. Ruse, [Solid State Synthesis of Silver Tetratingstate](#), *Inorganic Syntheses*, **22**, pp 76-79, Inorganic Syntheses, Inc. (1983)

Patent Granted: [3,846,025](#), Frequency Sensitive Laser Rotary Motion Sensor (1974)

1978-1984: Technical founder and Executive VP of [Biox Technology, Inc.](#) (Colorado). Invented the first commercially viable pulse oximeter, now a billion dollar per year industry and a universal standard in medical treatment. Directly supervised staff of 30. Took the technology from conception to acquisition by Ohmeda (British Oxygen Corporation) in 1984 for \$27 million. Current valuation of the industry is \$4-6 Billion¹. Patents granted: [4,394,572](#) and [4,407,290](#)

1984-1992: Founder and President of Alden Research Corporation (Colorado). A number of significant projects were completed during this period: 1) Consulted for Somanetics Corporation, solving a fundamental flaw in functionality in their Cerebral Oximeter allowing them to successfully commercialize the technology – acquired in 2010 by [Covidien](#) for about \$250 MM, 2) Developed an efficient process for extracting and purifying Taxol, a significant new anti-cancer drug – became VP of R/D at NaPro

* Underscored text is an active link if document is open on an Internet-enabled computer.

¹ By 1987 the two main players in pulse oximetry were Ohmeda and Nellcor – together constituting about 80% of the market share. Nellcor was acquired in 1987 for almost [\\$2 billion](#) and Ohmeda's healthcare division was acquired in 1998 for [\\$1 billion](#) (only about half that was due to the pulse oximetry portion), making their aggregate value about \$2.5 billion at that time.

BioTherapeutics, Inc. (Boulder, CO), and invented industrial processing methods to help them commercialize the process. 3) Invented algorithms and signal processing methods to accurately calculate - on a real-time basis - the valuation of derivative financial instruments (Futures and Index Options).

1984-1986: Founder and first President of Soricon Corporation (Colorado). Invented optical character recognition technology that was used to produce the first automated check scanners used initially in Safeway stores. Soricon was taken public and eventually acquired in 1994 by American Banknote Corporation for about \$30 million. Soricon readers are still in use today.

Patent Granted: [4,897,880](#)

1984-Present: Founder and President of [The Quantum World Corporation](#) (Colorado S-Corp.). Invented technology for generating and using true random numbers on PC's. Worldwide sales have continued since 1995. Pursued patent litigation with several computer manufacturers and reached satisfactory confidential settlements and license agreements for this technology. Virtually all personal computers in the US use devices licensed under these patents.

Patents Granted: [6,324,558](#), [6,763,364](#), [6,862,605](#), [7,096,242](#) and [7,752,247](#).

2005-Present: Founder and President of [Psigenics Corporation](#) (Nevada S-Corp.). Invented a new type of Information Technology that responds directly to a user's mental intentions. This technology uses specialized hardware to interact with a human user's intention without electrical or other connection. It can be used to play games, control prosthetic limbs or other machines and obtain hidden or classically non-inferable information.

Patents Granted: [8,073,631](#), [8,423,297](#), [9,367,288](#)

Patents Applications: [Acquisition and Assessment of Classically Non-Inferable Information](#) App. No.: 20160062735; [Artificial Intelligence Device and Method Responsive to Influences of Mind](#), App. No.:20160283197; [Synchronized True Random Number Generator](#) App No.: 20180039485.

ADDITIONAL PUBLICATIONS:

[Entropy, Predictability and Post-Quantum RNG Design](#), Quantum World Corporation, Jun (2017)

[Entropy Analysis and System Design for Quantum Random Number Generators in CMOS Integrated Circuits](#), Jul. (2013)

[Advances in Mind-Matter Interaction Technology: Is 100 Percent Effect Size Possible?](#), Psigenics Corporation, Aug. (2014)

[Machine-Enhanced Anomalous Cognition](#), Psigenics Corporation, May (2006)

[Intelligence Gathering Using Enhanced Anomalous Cognition](#), Psigenics Corporation, Jun. (2007)

AREAS OF EXPERTISE:

Entrepreneurial: business organization and management including all aspects of high-tech start-ups, fund raising, tax, legal and patent issues; Technology Assessment: patentability, manufacturing, cost and marketability; Technical: pharmaceutical (especially biopharmaceuticals), chemical and laboratory equipment and procedures, HPLC, x-ray crystallography and high-pressure (kiloton) presses, Applied Optics including bio-optics, Solid-State chemistry, materials research on high-temperature superconductivity and wires, electromagnetics, analog and digital circuit design and testing including FPGA implementations and embedded systems, microwave devices and related printed circuit design, analog and digital signal processing, real-time computer systems, randomness and true random number generators and testing, computer modeling and simulation of physical and mathematical systems.