

JAMES L. KASCHMITTER

C: (925) 570-7251 james.kasch@gmail.com

Recognized energy storage expert with over 30 years of experience in Li-ion Batteries

Founder, CEO, SpectraPower, Livermore, CA **2002-Present**

SpectraPower performs R&D of advanced battery technology and consulting

Founder, COB, CEO, President UltraCell Corporation, Livermore, CA **2002-2008**

Based on a unique reformed-methanol technology (RMFC), UltraCell successfully introduced the world's smallest 25W micro-fuel cell for the U.S. Army and others. UltraCell's product is the only micro fuel cell to complete rigorous military testing. UltraCell's technology was acquired by Brentronics.

Founder, COB, CEO, President PowerStor Corporation, Dublin, CA **1997-2000**

With DARPA funding, PowerStor successfully commercialized the Carbon Aerogel Supercapacitor, which was co-invented by Mr. Kaschmitter. It is currently being manufactured in high volumes by Cooper Industries in its Shanghai and Malaysia plants, and is available through major electronics distributors. Applications include MicroSoft's XBOX. PowerStor was acquired by Cooper Industries in 2000.

Founder, COB, CEO, President PolyStor Corporation, Livermore, CA **1993-2001**

PolyStor developed and manufactured in high volume (>1M units), lithium-ion, and lithium-ion-polymer, batteries for Ericsson, Motorola and others. PolyStor also developed large format lithium-ion batteries for the US Advanced Battery Consortium. PolyStor was sold to Moltech Power Systems in 2002. PolyStor video shows first U.S. Li-ion production line: <https://www.youtube.com/watch?v=jOwM5o9tRjU&t=21s>

Project Leader Lawrence Livermore National Laboratory **1984-1993**

During his tenure at LLNL, Mr. Kaschmitter was Project Leader of the SDIO/LLNL Advanced Power Group and Lead Engineer for the DOD/VHSIC laser pantography project. He co-invented the carbon aerogel supercapacitor, new materials for use in lithium-ion batteries and fuel cells, a laser-doping method for silicon on low-temperature plastics, and developed a radiation-tolerant computer/signal processor.

Co-Founder, VP, Engineering nChip Corporation; San Jose, CA **1987-1989**

Mr. Kaschmitter established a relationship with Fairchild Space Co. who invested seed funding. He was responsible for all engineering, including computer-aided design, new test methodologies and internally developed process equipment for multi-chip modules. nChip was acquired by Flextronics.

Engineering Manager Elxsi Corporation; San Jose, CA **1980-1984**

Mr. Kaschmitter designed the disk sub-system for the company's high performance supercomputer, managed the memory sub-system group and was Project Engineer for the Floating Point Processor.

Senior Project Engineer Minicomputer Technology; Palo Alto, CA **1979-1980**

Mr. Kaschmitter developed several key products and created a patented, novel disk caching system.

Manager of Engineering Berkeley Scientific Labs; Berkeley, CA **1977-1979**

Staff Engineer Stanford Telecommunications, Palo Alto, CA **1976 - 1977**

Education: **M.S.E.E. Stanford University, Stanford, CA**
B.S. Physics, University of Utah (UoU)

The B.S. degree was with a Business Minor. In addition, he was a Member of the Honors Program and a Teaching Associate for the Physics Dept at UoU. At Stanford, he was also a teaching associate for the Electrical Engineering Dept., and a research associate for the Applied Physics Dept.

Patents: **Mr. Kaschmitter holds over 20 patents and has published numerous papers in the fields of energy storage and generation and silicon packaging and processing**

Other: **Instrument and multi-engine rated pilot; maintains and operates own airplane**