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### Low Cost and High Performance

Dreamweaver has a roadmap to deliver the lowest cost, highest performance battery separators at 10 microns thin, stable to 300 C, and produced on modern high speed production equipment.

### Dreamweaver Safety Testing Results



A team of investigators led by Dreamweaver International has investigated the effects of heat and nail penetration on lithium ion cells by performing autopsies on cells post-test.

The investigators found that conventional separators shrink, melt, crack, split and burn under extreme conditions, while separators made of more thermally stable materials show much less damage, and in some cases none of these effects.

Cells were built with identical construction except for the separators, and then several conventional safety tests were performed.

Read the full report [here](#).

[Sign up](#) for a free webinar on this subject.

Shmuel De-Leon  
Energy Ltd



### Energy Storage Seminar

Dreamweaver and Shmuel de Leon are hosting our 2nd Energy Storage Seminar at the [CU-ICAR](#) campus located in Greenville, SC February 22nd-23rd.

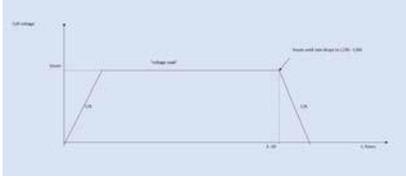
Topics covered include:

- Present and future needs of portable and stationary electrochemical energy sources
- Primary, rechargeable, reserve, commercial, industrial and military batteries, fuel cells, ultra-capacitors system
- Special focus is given to battery design and testing aspects
- Safety issues along the energy source solution cycle life.

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### Dreamweaver Partners with Zap & GO

Dreamweaver's partner [Zap&Go](#) based near Oxford, UK is developing higher voltage pouch cell supercapacitors for use in a range of applications where fast charging is important. The first products, operating now at 3.5v, are being used in a [mobile phone charger](#) that charges in 5-minutes and in appliances like cordless power tools and robot cleaners. The goal is to reduce the charge time from hours to minutes. Stephen Voller, CEO and Founder of [Zap&Go](#), stated "Dreamweaver was found to both increase the performance and reduce the internal resistance of the supercapacitors." For more information about [Zap&Go](#) please contact [Stephen Voller](#).



### Formation Application Note

Dreamweaver International separators are designed for use in existing cells and capacitor designs. A typical process in the construction of these cells is formation, or the initial charging and forming of the Solid Electrolyte Interface (SEI) layer. The separator is right at the heart of this process and some changes in the formation process can be expected when transitioning to Dreamweaver separators. Read the full application note [here](#).



### Cell Build Quick Start Guide

There are a few parameters that should be given attention to build maximum performance cells with Dreamweaver separators, including winding, drying, electrolyte and formation. [Here](#) is helpful quick start guide for building Lithium Ion cells using Dreamweaver Separators.

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### Upcoming Events

- [Energy Storage Seminar](#), Greenville, SC - February 22nd - 23<sup>rd</sup>
- [NaatBatt National Meeting](#), Palm Springs, CA - February 29th - March 3<sup>rd</sup>
- [International Battery Seminar](#), Ft Lauderdale, FL - March 21st - 24<sup>th</sup>
- [BattConn](#), Boca Raton, FL - May 10th - 13<sup>th</sup>
- [CIBF](#), Shenzhen China - May 24th - 26th

You can also check our website for a [calendar of events](#).