

The Energy Venture Investment *Summit*



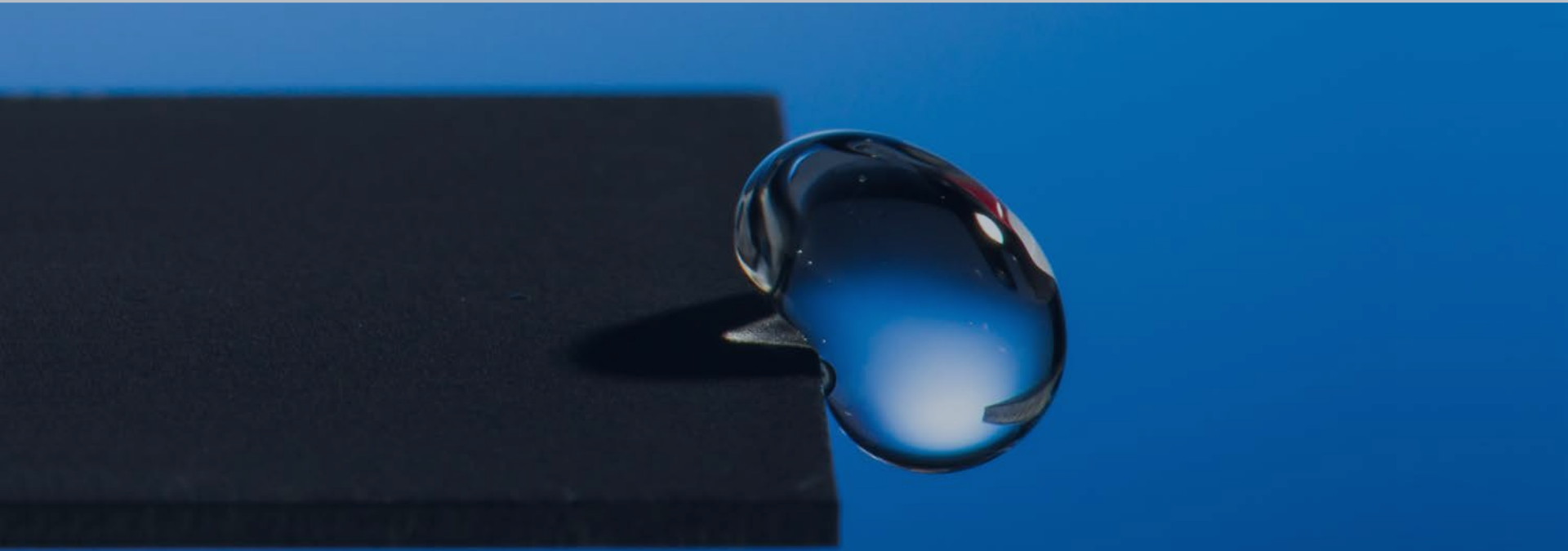
THURSDAY, FEBRUARY 17
3 PM (MT)

FLITE MATERIAL SCIENCES CORPORATION



HAYNES BOONE





FLITE Material Sciences

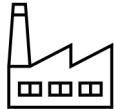
making everyday materials extraordinary

Dan Cohen, CEO





FLITE introduces *radical new methods* to treat all industrial materials that prevent failure caused by *ice, corrosion, biofilms or fouling* using clean lasers instead of toxic coatings.



We will succeed by embedding this technology directly into our clients' manufacturing environment for long-term licensing fees and royalties.

Chronic Industry Problems

Plane Icing



Cell Towers



Power Lines



HVAC



Ship Hulls



Oil Pipeline



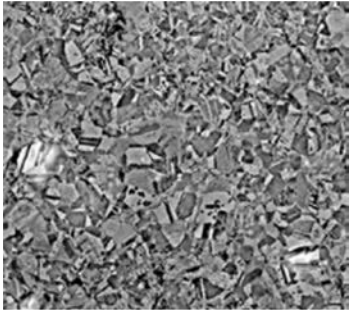
Wind Turbines



Water



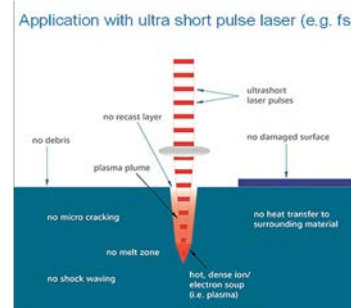
FLITE Core Technology



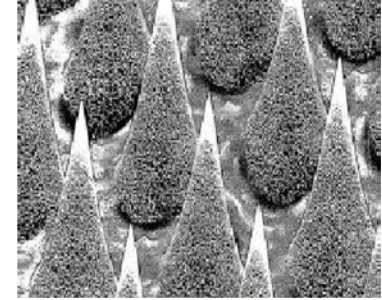
Untreated
Steel



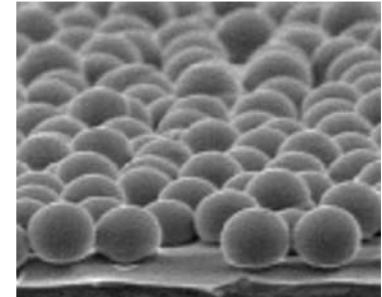
Coating
Failures Vol. 1



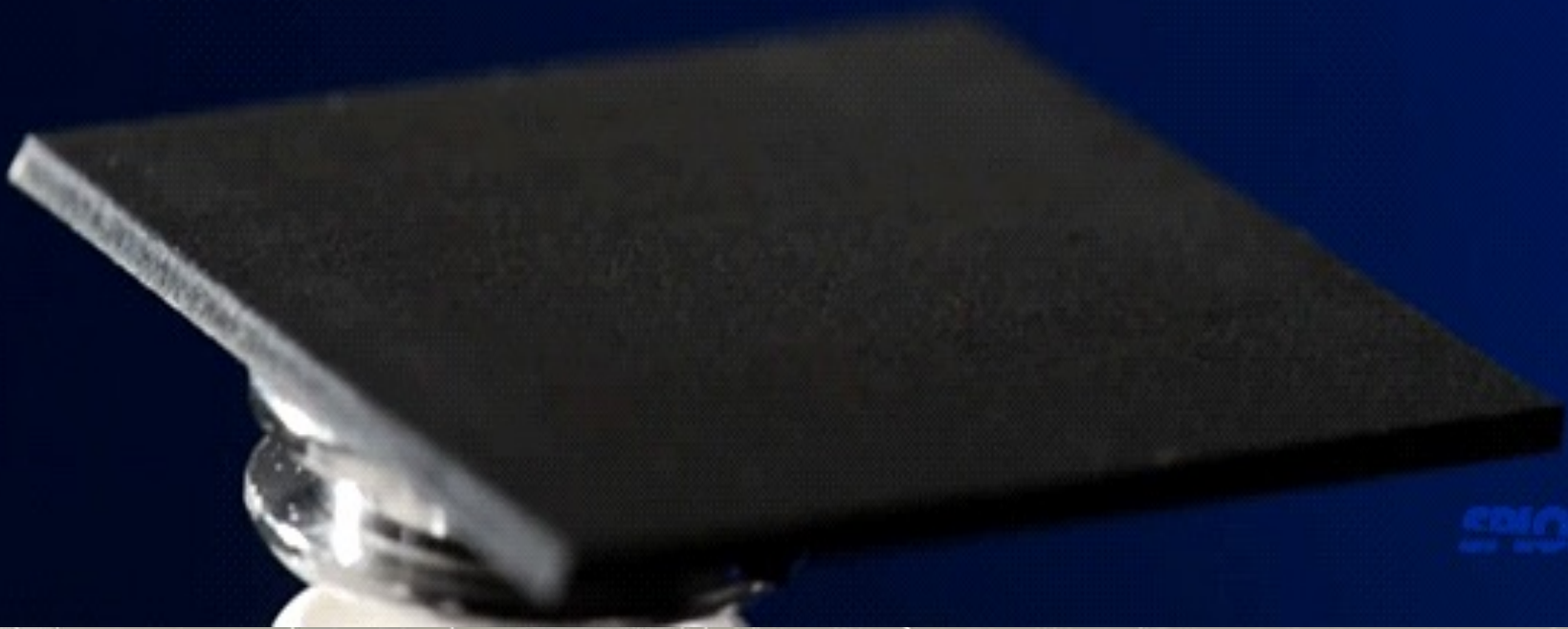
FLITE patented
laser
treatments



Water-Repelling
"Peaks"



Oil-Repellent
"Mushrooms"



colord GIF

Functionalized Surfaces

FLITE's techniques have been applied to virtually every solid material, and we are designing new textures for specific industrial problems.

Repel
water or oil



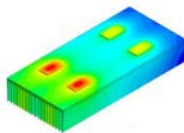
Attract
water or oil



Kill
Pathogens



Reduce
Heat & Friction



Metals



Glass



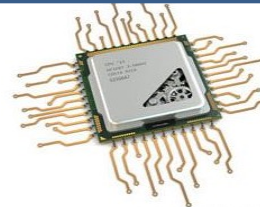
Ceramics



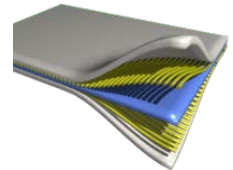
Polymers



Semicon



Composites



Not just another coating.

What we are *NOT*

A process that adds material to the surface.

A process that removes material from the surface.

An additive that changes material properties.

What we *ARE*

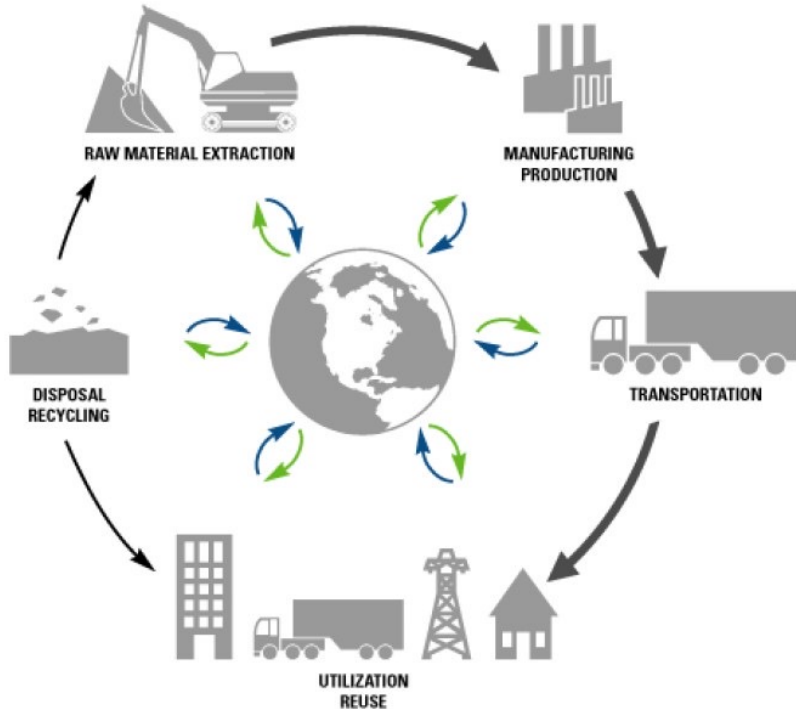
A treatment that goes where coatings can't.

A method for all materials.

A new design element for familiar products.

Completely green.

Defining *Green*

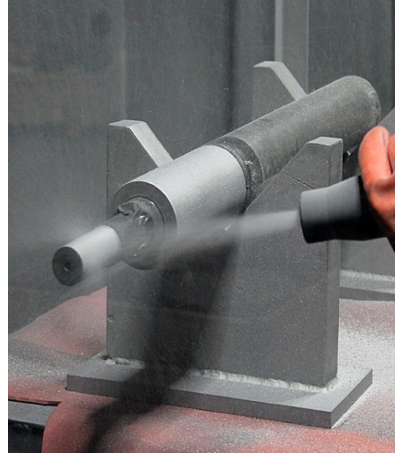


- No residue in soil, air, water
- No toxic vapors
- No significant waste heat
- No danger of flame or explosion
- No leaching into finished product
- No odors or loud noises
- Does not affect recycling
- Does not affect composting
- *Consumes Electricity*

Promising Early Results



✓ Water jetting



✓ Sand blasting



✓ Abrasive
scrubs



✓ Thermal
cycling

✓ Ready for real industrial challenges!

Our Mission in Oil & Gas



Pipeline Exteriors and
Other Infrastructure

☑ FLITE techniques for
corrosion prevention



Pipeline Interiors and
Flow Assurance

☑ FLITE techniques for
reducing scale, clogging



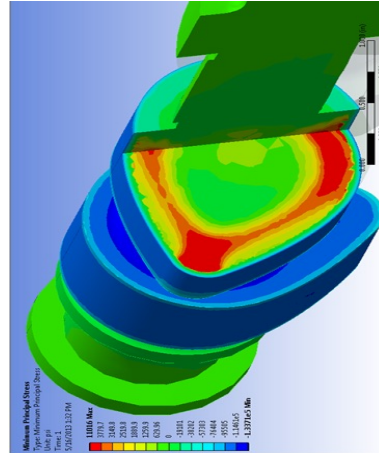
Facilitating Process
Improvements

☑ Oil/Water Separation,
Heat Efficiency & more

New Tools for Old Problems



**Laser Rust
Removal**

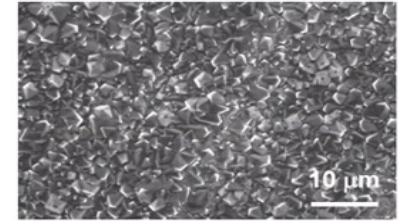


**Hardening and
Corrosion
Resistance**

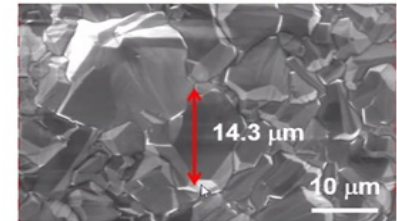


**Solid State
Welding Methods**

Conventional Plasma Vapor Deposition



FLITE Enhanced Open-Air Deposition



**Superior Diamond
Coatings**

FLITE Leadership Team



Dan Cohen
President

28 years exp.
Innovation & R&D
CTO 5 times
Founder 3 times



Dr Ogan Gurel
Chief Science Officer

33 years exp.
MD (Neuro.), PhD
Resident Genius



Tom Samek
VP Business
Development
35 years experience
in deeptech
industries

The Institute of
OPTICS



URVentures

UNIVERSITY OF
Nebraska
Lincoln®

FLITE Business Profile



- Established 2018 in Montreal, Canada
- Expanded 2019 to Boston, MA
- IP Licensing from leading institutions
- Only \$120,000 invested in the business, the rest from founders, grants and revenue
- Ultra-Lean operation
- More than 200 global clients calling in for experiments and trials – far more than our capacity
- Currently raising Series A

A F W E R X



MC

MASSCHALLENGE

JOULES ACCELERATOR



STARBURST

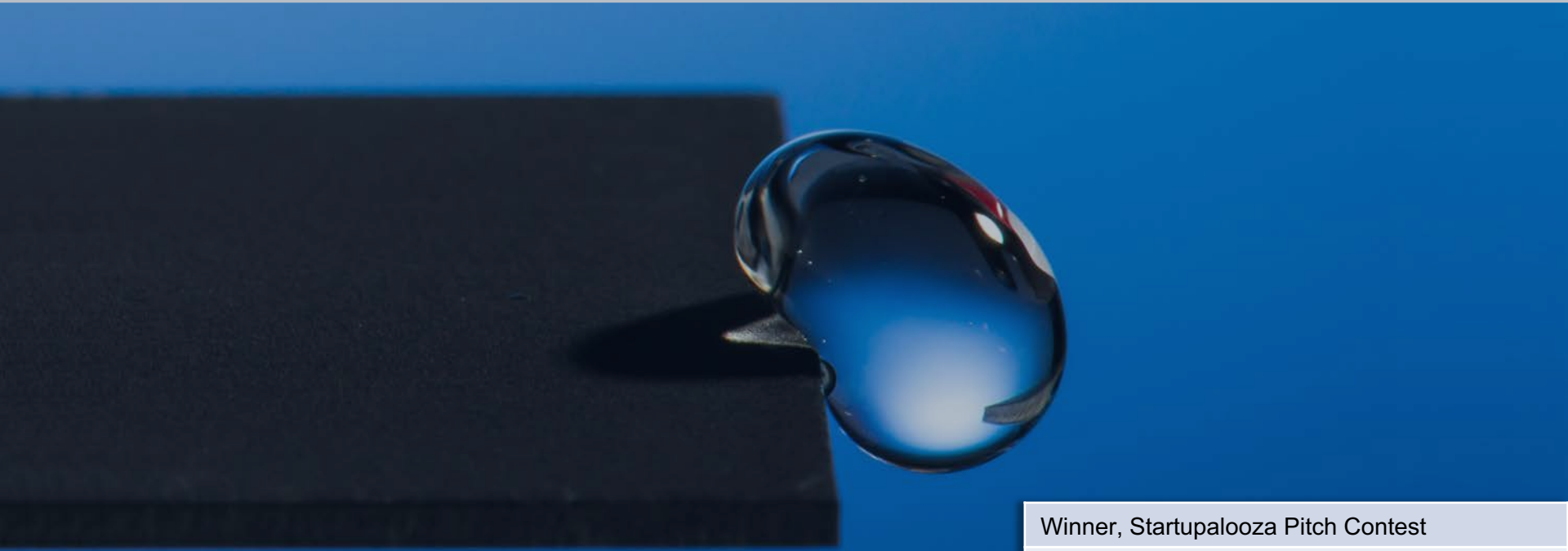
CEN
TECH



techstars®

First Customers

- Durable Goods
- Food and Beverage
- Heat Exchangers
- Aluminum Processing
- Water Treatment
- Commercial Space Client
- Military aviation
- International Oil & Gas
- Surgical Implants
- Surveillance Drones
- Undersea Drones
- Automotive Sensors



Join Us.

Dan Cohen, CEO

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+1 (514) 825-9952



Winner, Startupalooza Pitch Contest

Finalist, US Army xTechSearch Prize

Winner, SPE ATCE Best in Show

2nd Place, Entrepreneurship World Cup (2020)

Winner, CCIA Cleantech Oil & Gas Challenge

Finalist, Vernadsky Challenge

Winner, Unicorn Startup Battle Global (2021)

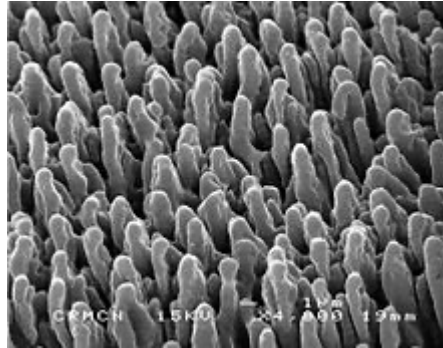
Finalist, TechCrunch Disrupt 2021

FLITE in Solar Energy



Sand, dust or ice blocking sun

☑ Superhydrophobic glass cover
(also reduces glare)



Low yield from solar cells

☑ FLITE chem-free technique for blackening cells



New Solar Cell Materials

☑ Next-generation PV cells, space glass

FLITE in Wind Energy



Power Loss and
Inefficiency

☑ Water- and Ice-
Shedding Turbine Blades



Mechanical Damage and
Downtime

☑ Functional coatings
for mechanicals



Longer-lasting platforms

☑ Corrosion and
biofouling resistant
materials

FLITE in Energy Efficiency



Grid Transmission and
Distribution

☑ Reduce ice buildup on
wires, towers



Ocean marine
transportation

☑ Prevent marine
biofouling without toxic
chemicals



HVAC / Heat Exchangers

☑ Better heat dissipation
on heavy equipment

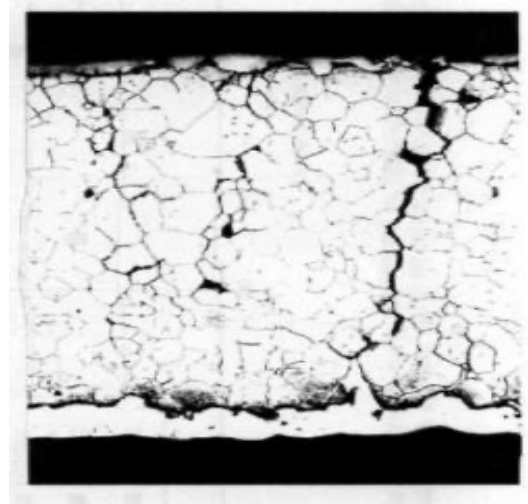
FLITE in Other Energy Sectors



**Improved HVAC
Efficiency and Longevity**



**Improved Hydroelectric
Efficiency and Flow**



**Corrosion resistant
Nuclear Components**