ECELLIX

$12.2M Strategic Investment Round

introducing eCell™

Advanced silicon anodes for higher energy batteries

Jerry W. Schwartz JD LLM
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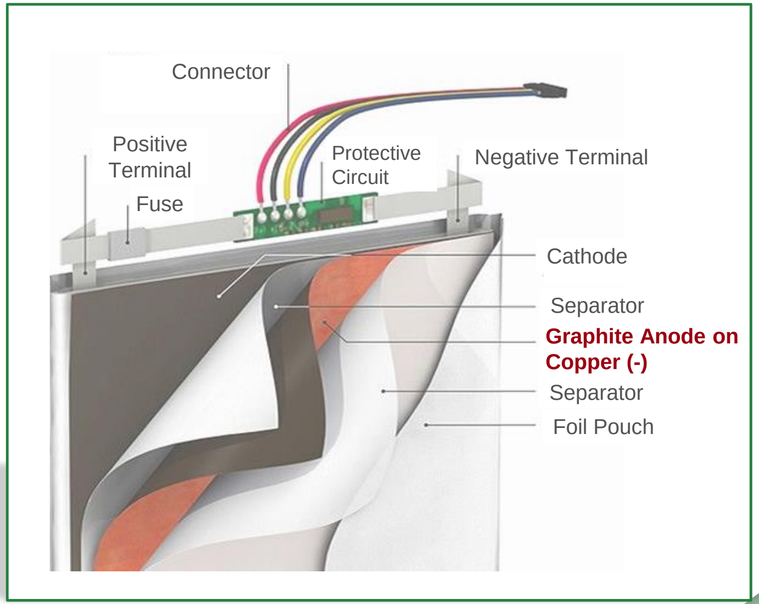
The Battery Reimagined

- First introduced in 1991, the Lithium-ion battery has been the key enabler for a host of portable applications: Portable Consumer Devices & Wearables; Power Tools; and now multiple modes of electrified Transportation.
- Li-ion batteries have four principal components: the anode (-), the cathode (+), electrolyte and separator. Anodes makes up 25% of the cost of a Li-ion battery.
- Compelling need for higher energy density, flexible architecture and affordability.
- Great promise in evolving anodes from low-energy graphite to high energy silicon.
- Development of “Lithium Next” has been painfully slow to appear.



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The Quest for a More Capable Battery

eCell: a new way of approaching silicon anodes

1st Wave - Graphite Anode
1991 - Present

Standard Lithium-Ion Battery

Low cost - 25% of the cost of a Li-ion battery.

Limited energy - energy capacity 372 mAh/g.

Worldwide Adoption

SAMSUNG Panasonic LG Chem
SONY HITACHI BYD CATL

Graphite Powder

SHOWA DENKO
Pyrotek HITACHI

2nd Wave – Nano Structures & Silicon/Graphite Blended Anodes
Multiple vendors starting in 2008 – Launch TBD

Nano-Engineered Lithium-Silicon Battery

High cost – uses exotic nano-scale precursors and complex scaling-challenged mfg. processes.

Higher Energy - energy capacity 600-1000 mAh/g

Inflexible – layered technologies lead to architectural rigidity and reduced ability to customize.

Si composite	p-Si/C	Graphite/Carbon Blends	
2º nanoparticle structures	Coated Si Nanoparticles	Si/C nanocomposite	Si metal alloys
Porous Si	Silicon nanotubes	Mesocarbon microbes	Carbon Nanotubes
Si Graphite Composites	Nano Si/C	Si Thin Film	Si Nanowires

LeydenJar SiNode envia NANOGRAF Nanotek Instruments
enovix OneD material Group14 ENEVATE nexeon amprius SILA

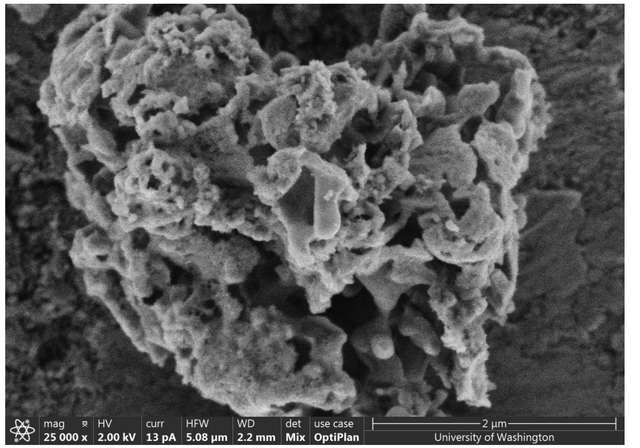
3rd Wave – eCell™ Micro-Porous Silicon-Carbon Composite Anode
Enabling Next-Gen High Energy Li-ion Batteries

Lithium Next™ Battery

Low cost – inexpensive commodity precursor materials + simple 2-step process.

Higher Energy – 100% Si active materials support maximum capacity gain

Flexible Solution - process controls enable optimized use models and platforms.



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1991 2023

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Why this will change the world

Ecellix eCell™ silicon anode materials are poised to disrupt the global Li-ion battery market

eCell will enable Li-ion batteries that are up to

1/3 lighter,
1/3 smaller,
1/3 cheaper
and offer
30%-50% higher energy

than the current industry standard.

eCell is different from other silicon anode technologies
because it is produced from

low-cost
metallurgical grade silicon, using a
simple and scalable
process to create an inexpensive
drop-in replacement

for graphite at a comparable cost per unit of capacity.

Ecellix will succeed

because we have

disruptive patented technology

addressing an extreme need,

developed by an

exceptional team of scientists

led by a highly

experienced leadership team

and guided by

world-class advisors*.*

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Why are we excited about this?

What inspires us to be dedicated to this?

One huge advantage of silicon:

Si can yield more energy dense and faster charging batteries because it holds 10x as much Li+ per mass as graphite.

Two technical hurdles of silicon:

When Si stores Lithium it expands 3x causing cracking and loss of capacity.

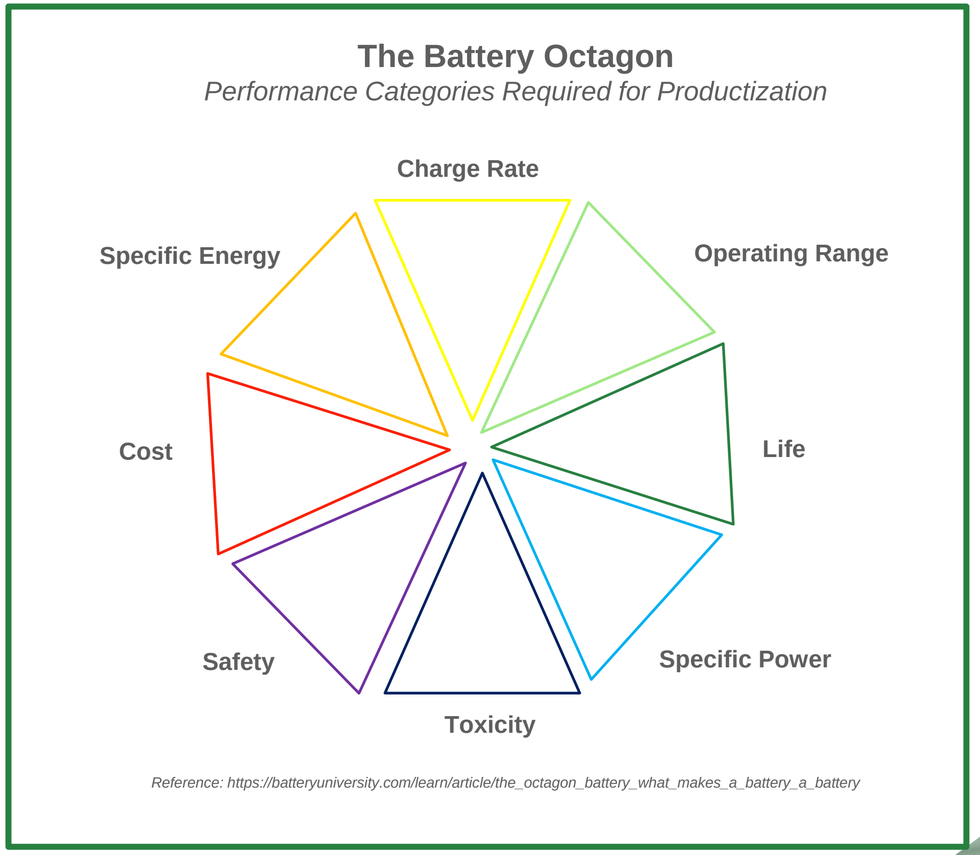
When Si contacts Li and electrolyte, irreversible reactions occur reducing battery capacity.

Leveraging 20 years of evolution – Lessons learned:

Costly nano-engineered approaches are based on dated understanding of these problems.

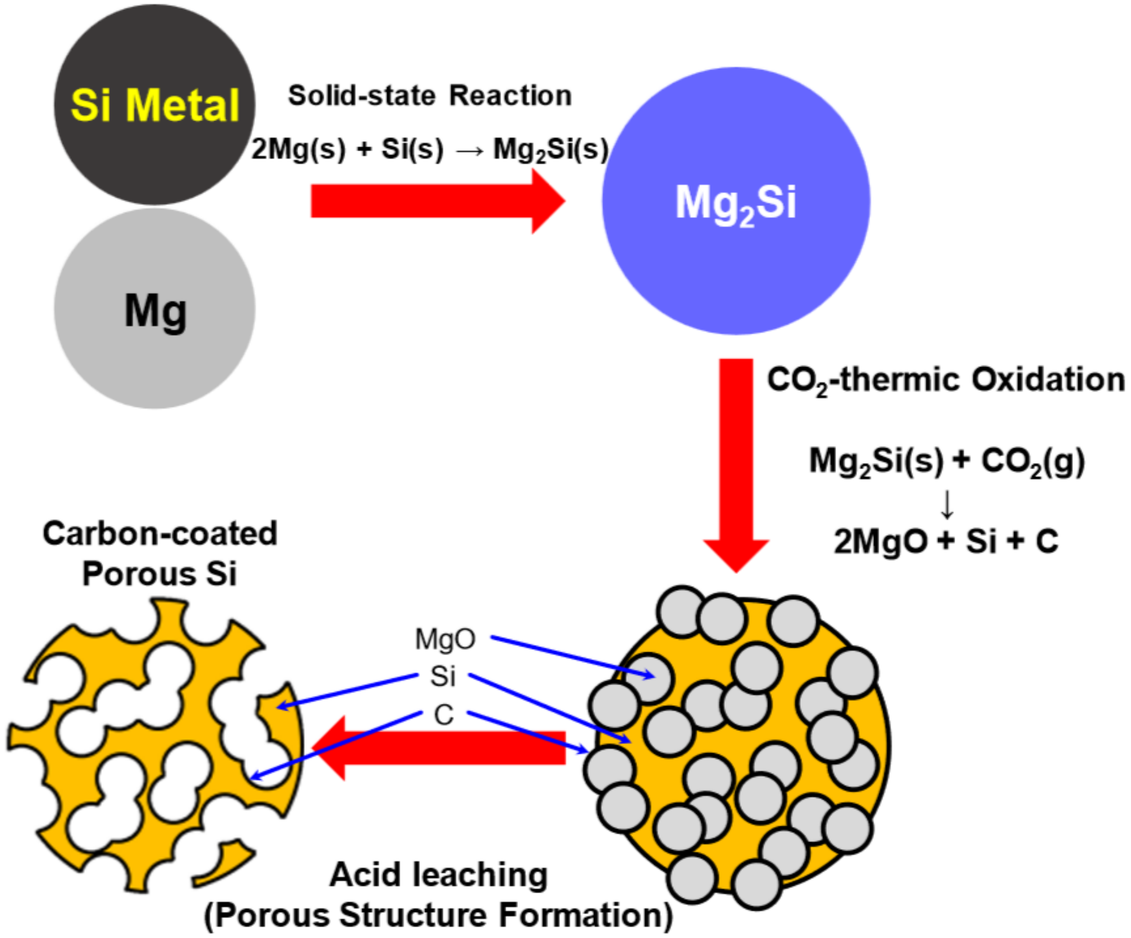
Building a functioning battery not the same as a marketable battery

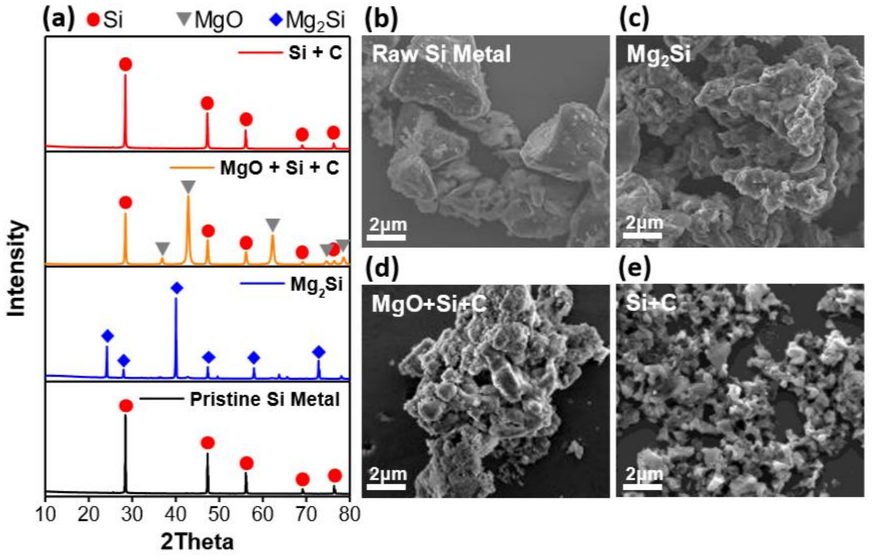
Optimizing one parameter invariably impacts one or more other parameters.



eCell™ Porous Si/C Composite Material

Patented synthesis process is key advantage – scalable and low cost by design





Precursors:

- Silicon powder, micron scale, metallurgical grade
- Magnesium powder, micron scale
- Carbon dioxide gas
- Hydrochloric acid

Available, scalable and low cost

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Value Proposition - eCell

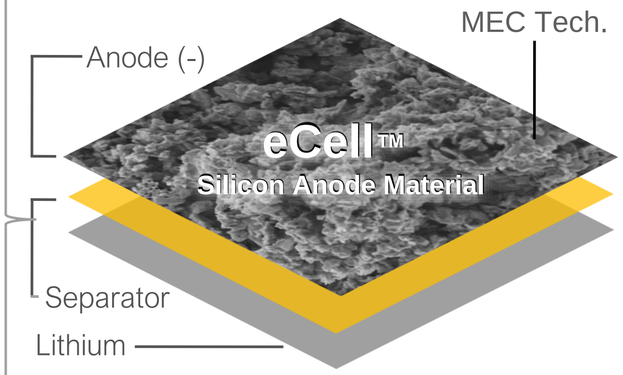
30%-50% higher energy at a cost comparable to graphite anodes

COMPELLING ATTRIBUTES

Micro Energy Cores (MEC) Technology

- Porous structure mitigates surface chemistry & swelling
- 30-50% higher energy
- Cycle life 600 cycles - current limited > 1200 cycles
- Thinner anode (reduction in overall weight & volume)
- Low-cost commodity-scale precursor materials
- Simplified manufacturing process for cost & scalability
- Drop-in replacement with existing tooling & processes
- Tunable pores for application specific configurability
- Comparable cost per unit of capacity to graphite

ANODE ENERGY EXCHANGE TESTING STACK

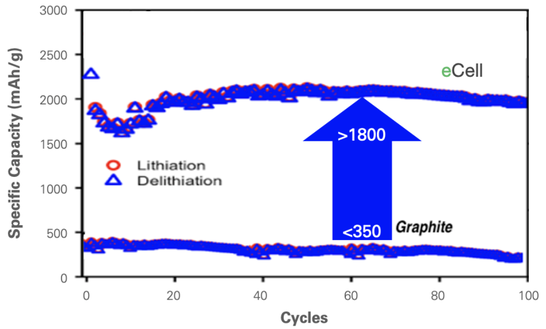


Global Technology Partnerships

eCell Energy exchange testing

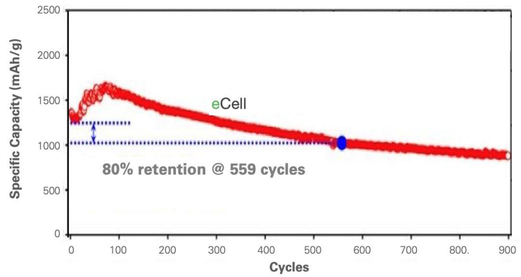
PERFORMANCE

30%-50% higher energy | 5x Capacity

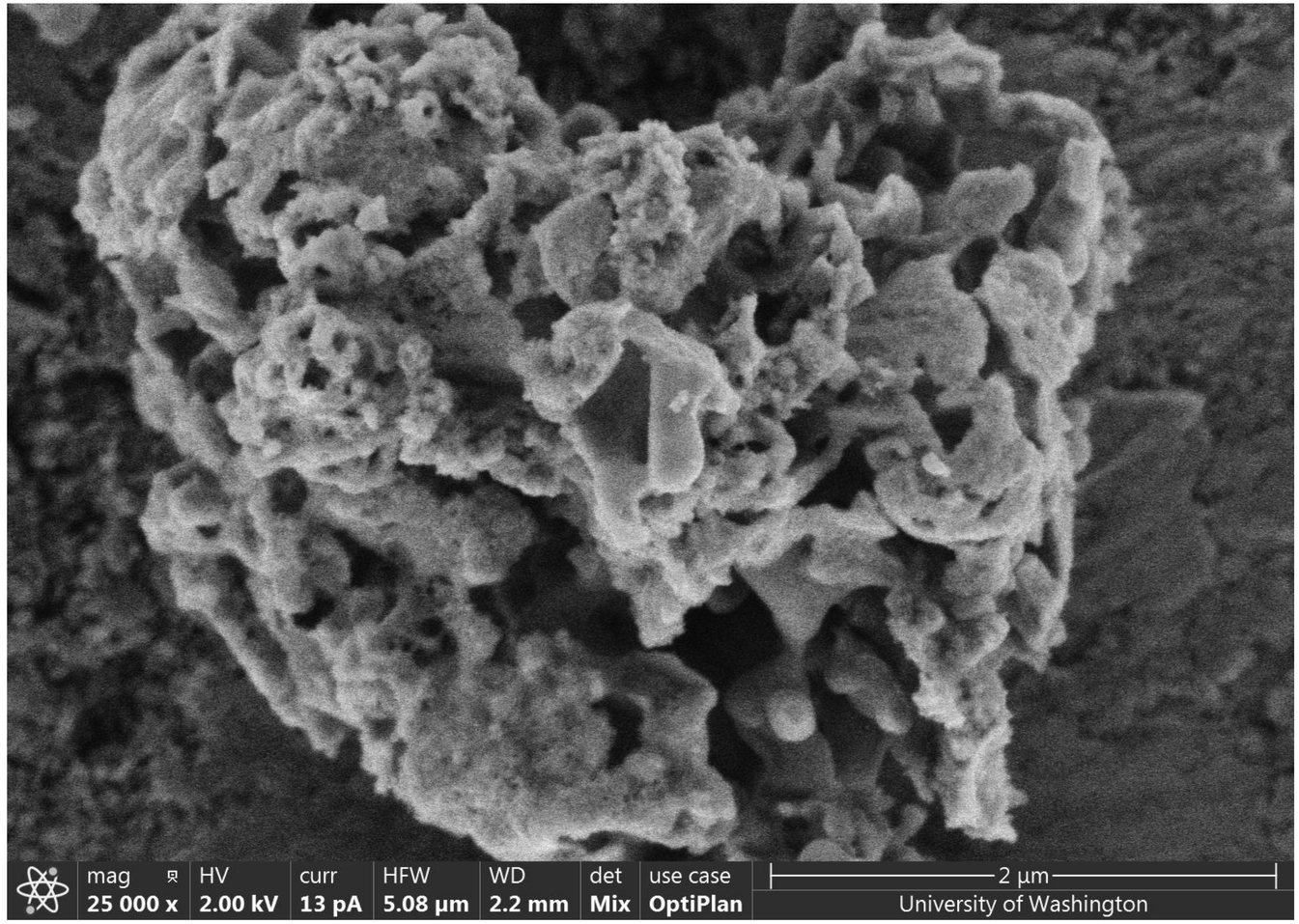


CYCLE LIFE

559 Cycles | 80%



eCell Porous Si/C Composite Material



Half Cell Cyclability (to 80% capacity):

- ~600 cycles at C/2
- ~1200 cycles at C/2, 1000mAh/g cycling

First Cycle Efficiency

- 91-93%

Active Material

- 100% Si/C (97 wt% Si) – no graphite

Electrode Construction

- Mixes and coats very similarly to graphite

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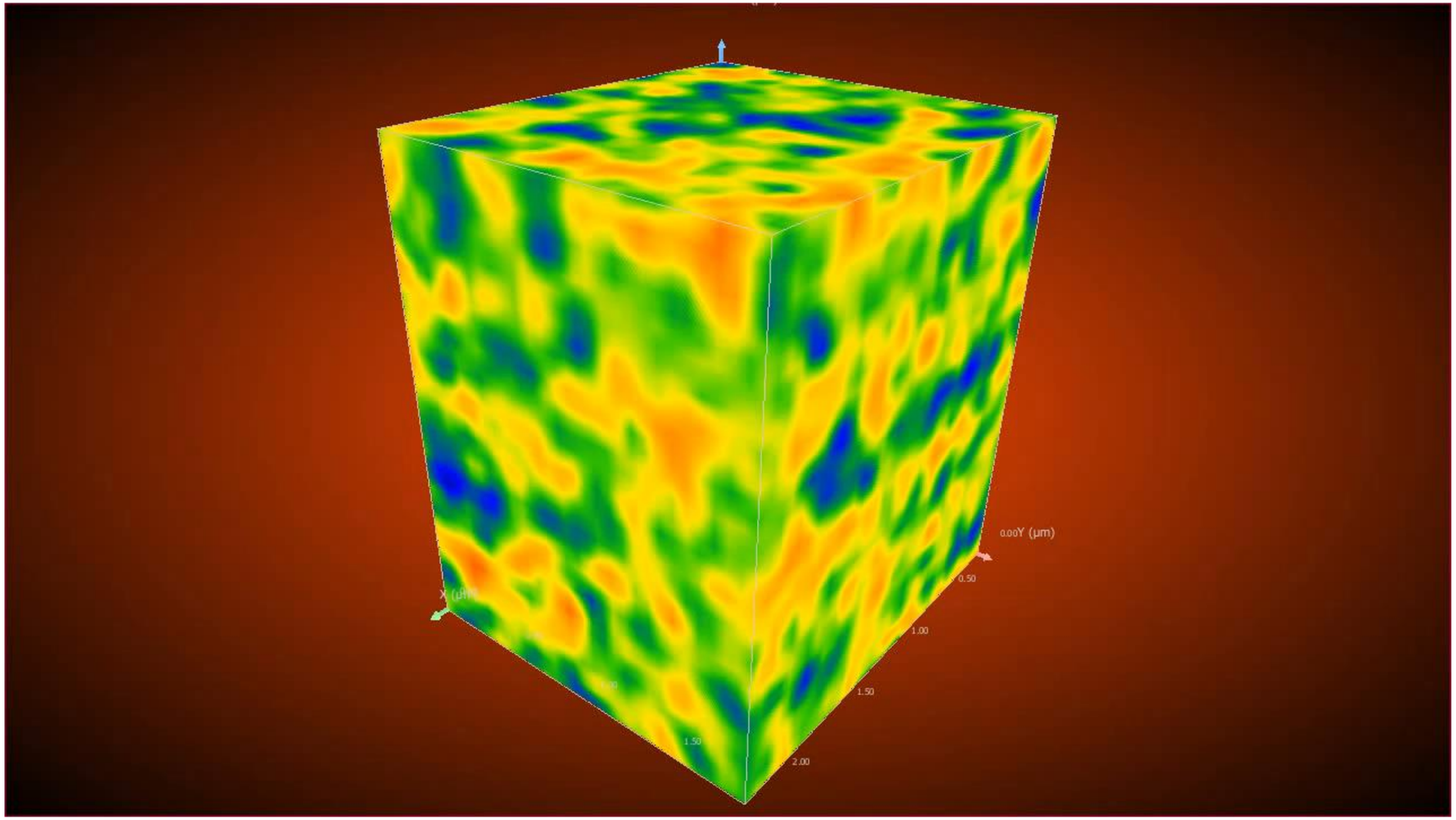
eCell Porous Si/C Composite Material

Internal structure of **eCell™** through Nano-CT Imaging



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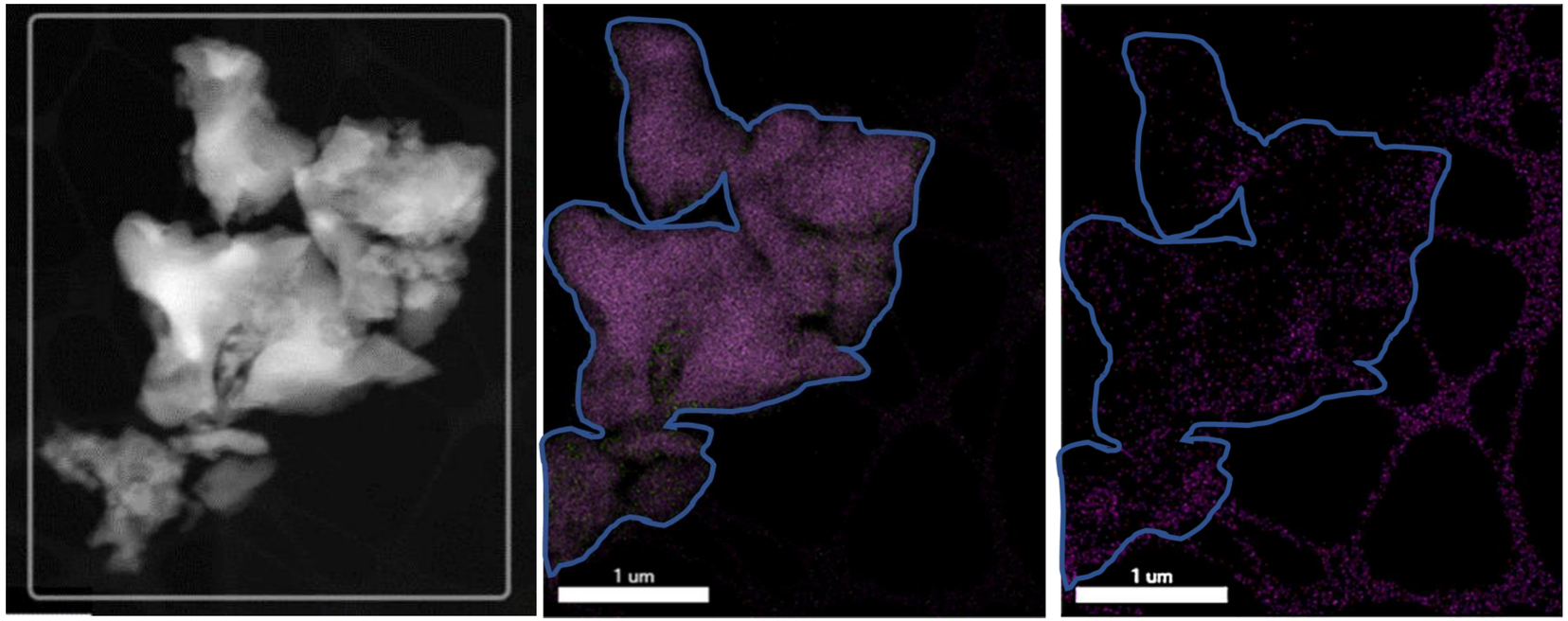
eCell Porous Si/C Composite Material

Surface carbon coating of **eCell™** observed via EDS and TEM

Carbon

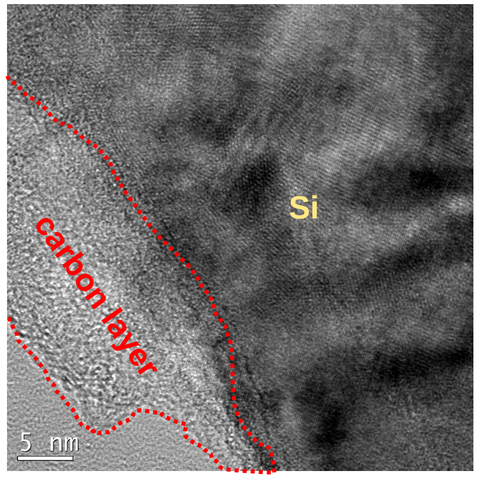
Oxygen

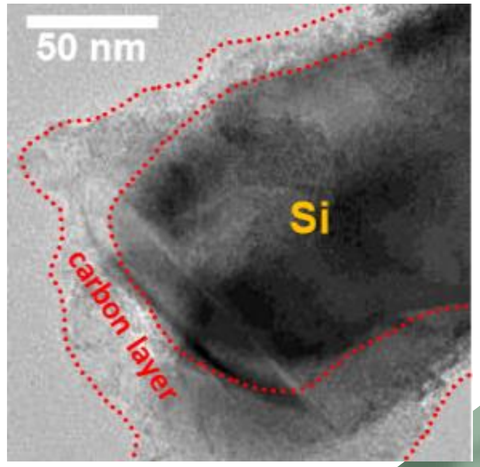
Silicon



SEM Image of particle

Small amounts of SiOx (EDS, green) Even distribution of the C layer (EDS)





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eCell Technical Development Status

Where are we today?

Material Stabilization and Scaling

- Lab-scale material production capability has ramped from 0.5g material in 7d to roughly 1kg/mo
- Stabilized synthesis processes allowing for reproducible material, enabling work with external development partners (Q2’21)
- Projects in place and in early stages of work to scale production through 4 steps:
  - 1 kg/d (Max Lab, late 2022)
  - 3 t / yr (10 kg/d LRIP, YE 2023)
  - 300 t / yr (100M 18650’s / 20k Evs, TBD)
  - 30K t / yr (10B 18650’s / 2M Evs, TBD)

Full Cell Demonstration and Sampling

- Working with external development partners on development of full cell for demonstration and sampling
  - Polaris Battery Labs (full small format pouch cell development and testing, with extensive experience in silicon-containing anode materials)
  - Washington State University (novel binder systems tailored for eCell)
  - Berkeley National Labs (novel binder systems)
  - Argonne National Labs (compatible cathodes)
  - E-lyte (electrolytes)

Technical Capabilities

- R&D team presently at 7 FTE (4 PhDs) with plans to scale to 13 by Q4’22)
- Operating from newly opened corporate HQ and lab in North Lake Union area of Seattle - (tube furnaces, fume hoods, lab benches, 160 electrochemical test channels)

- Maintaining office and lab presence in WA Clean Energy Institute for access to extensive collection of analytic equipment at the Testbeds and across the UW campus.

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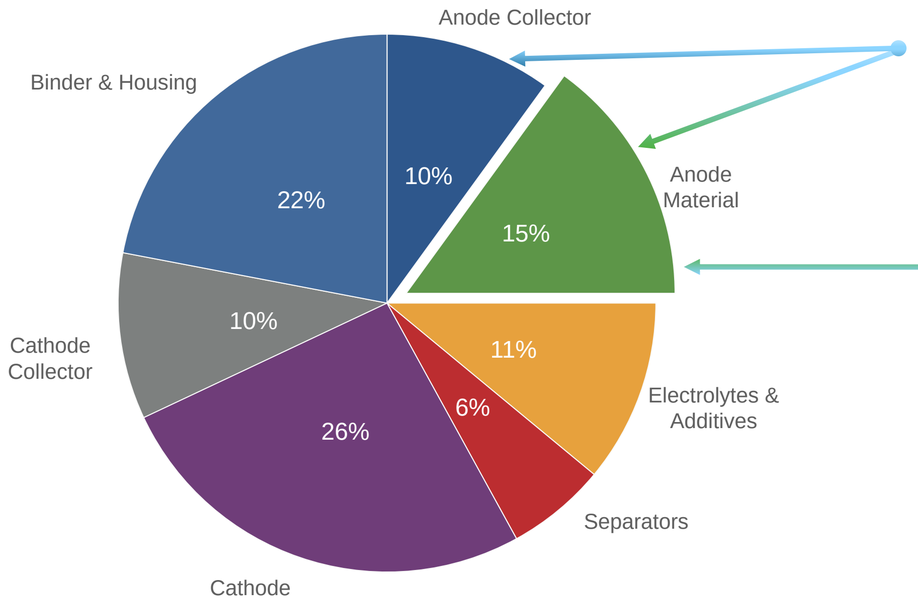
Li-ion Battery Global Market - $360B in 2030

CAGR 30% - EVs fastest growth segment – McKinsey Research (2022)

BATTERY COMPONENTS (%)
LI-ION BATTERIES



Anode Subsystem
2030 TAM $90B

Anode Active Material
2030 TAM $54B

Total market source: Allied Market Research - Apr. 2020

MARKET EXAMPLES
(UNITS)

ELECTRIC VEHICLE MARKET - 5K Cells/EV

2020	2025
2,500,000	11,200,000

Source: Deloitte, July 2020

CELL PHONES

2019	2024
1,520,000,000	1,730,000,000

Source: Statista, Sep. 2020 | IDC, Mar. 2020

LAPTOPS & TABLETS

2019	2024
318,000,000	347,000,000

Source: Statista, Dec. 2020

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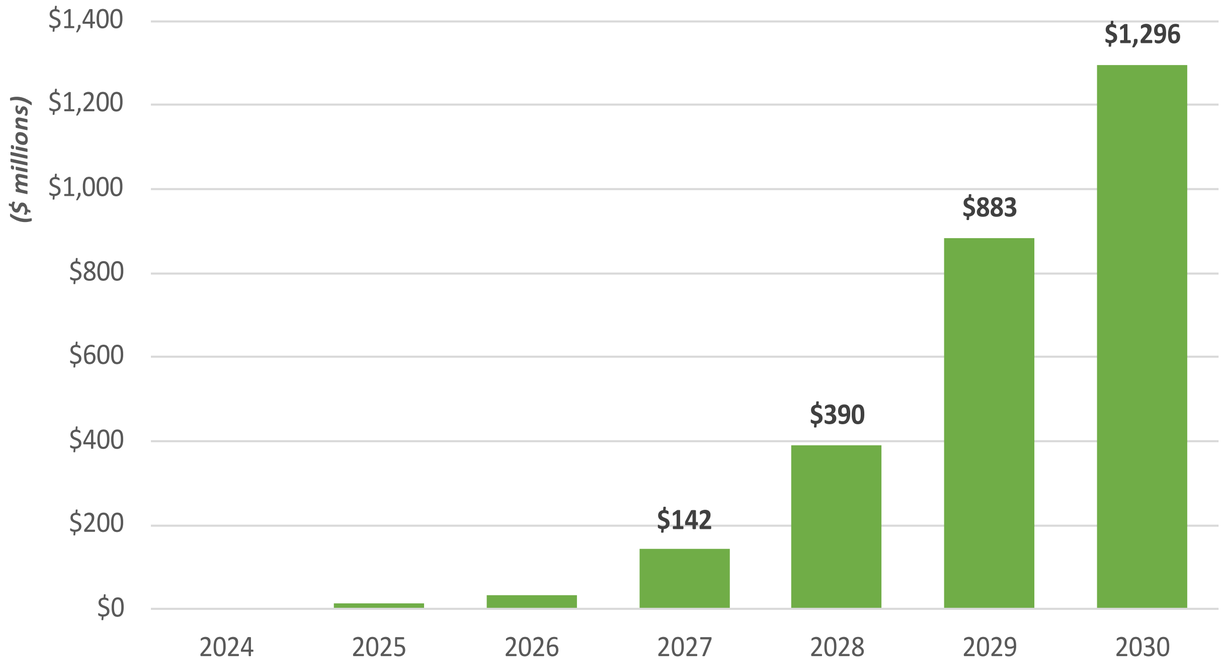
Revenue Projections



Projected revenues of $1.3B in 2030 represents a 2.4% share of the projected total global anode active materials market

FINANCIAL ASSUMPTIONS

Global Supplier – Si/C Anode Materials

- eCell material manufactured by Ecellix
- Competitive mid-range pricing
- eCell may be optimized to user specification
- Production in 2023 from Level 1 Pilot Plant supports customer sampling
- Production in 2024 from Level 2 Pilot Plant supports initial customer product launches
- Market strategy – launch with single cell consumer devices and wearables applications followed by evolution into complex multi-cell energy managed power packs for transportation markets (vehicles, planes, boats)
- Production Plant comes online 2026
- Current Prospects:

GM STELLANTIS TESLA Volkswagen Mercedes-Benz BMW Ford
SAMSUNG Panasonic LG Chem BYD CATL SHOWA DENKO
intel Microsoft BLACK+DECKER SONY HYUNDAI
LOCKHEED MARTIN BOEING AIRBUS
PACCAR EXXON

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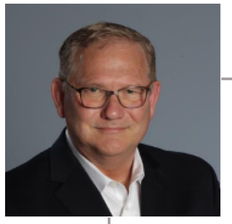
World-Class Team

Jerry Schwartz JD LLM
CEO/BOD | Founder



Geoff Deane, PhD
CTO

Ken Poppe
CFO/Secretary

Jason Schwartz
CSO/BOD | Founder

Lonnie Rosenwald JD
General Counsel

John Anderson
SVP | Founder

Bill Wiles, JD
VP Business Dev

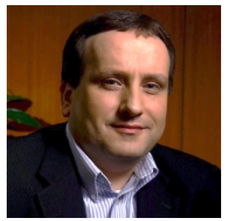
David Liddle
VP Corp Dev

Chris Venti
VP Manufacturing

Board of Directors

Brian Turner
Independent BOD
Coinstar ex-CFO
Cray ex-Chairman

Bartosz Wojszczyk, PhD
Independent BOD
GE MD Global Growth
Accenture, Global Dir

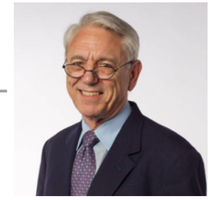


Saif Qazi, CFA
Independent BOD
VP Catalus Capital
CCG Energy Group

Brian Holloway, PhD
Chief Science Advisor
DARPA / LMCO ex-CTO
IV Deep Science Fund GM

Advisor (Non-Voting)

Advisory Board



George Crabtree, PhD
JCESR Argonne Nat'l Lab
Nat'l Academy of Science

Patrick McGrath, PhD
ARPA-E ex-Dep Director
Chief Scientific Advisor

Greg MacLean, PhD
General Motors
Ex-Lead Engineer
Adv Battery Cells (ret)

Min-Kyu Song, PhD
Washington State U
Adv R&D - Hyundai Motors

Jen Houston
CMO D-Wave Systems
Waggoner Edstrom Digital

Jay Kidd
Wing VC Partner
NetApp/Brocade CTO/CMO

Peter Mueller-Bruehl
Greencom Networks co-CEO
Daimler AG ex-CTO/CIO

Kevin Billings
USAF ex-Asst Secy Energy
Lockheed Martin Dir Energy

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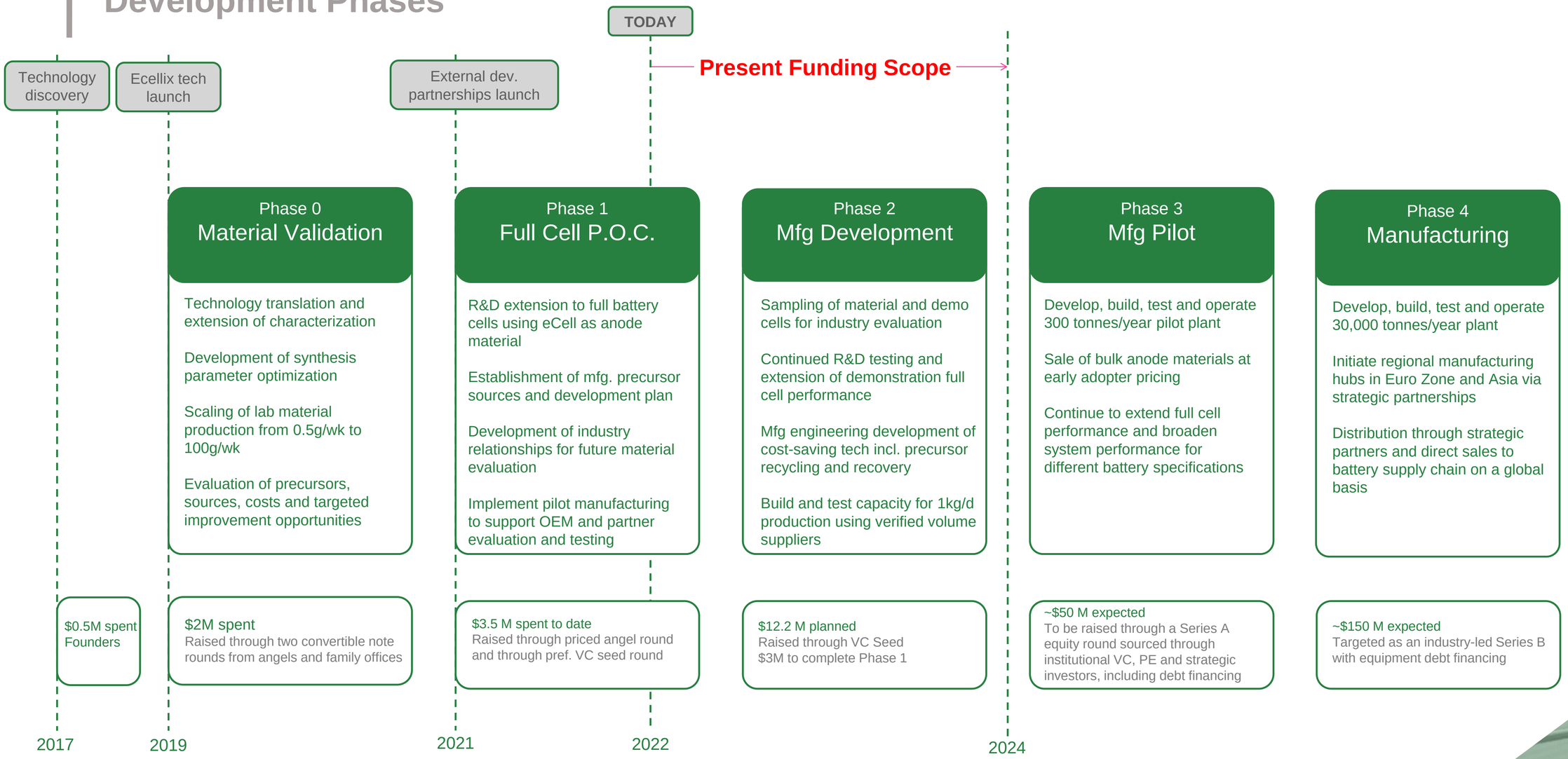
Timeline

Development Phases



Investment Opportunity

- **Target Raise:** $12.2M
- **Offering Price:** $4.00 per share
- **Funding History:** 2018: $500K Founder Funding
  2020: $2M Convertible Debt (Fully converted to equity 2021)
  2021: $3.5M Seed Round (including $2M VC)

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Five Key Takeaways

Jerry W. Schwartz JD LLM
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- ❑ eCell Silicon Anodes: Proprietary swell-tolerant Si-dominant anode materials produced with all commodity materials applying an environmentally friendly and scalable process at favorable costs.
- ❑ Drop-in solution: Leverages OEMs existing processes, tooling and plant investments offering up to a 30% reduction weight and volume and 30% - 50% gain in Li-ion battery capacity.
- ❑ IP: Core 2017 patent allowed – Int'l registrations in progress - Multiple patents pending.
- ❑ World-Class Team: Deep experience executing global commercialization of new technologies. ex- Microsoft, Apple, Dow, GE, GM, Daimler, Lockheed Martin, IV, DARPA, ARPA-E, DOD.
- ❑ Ideal Market Timing: $90B Addressable Market for anodes by 2030.

Disruptive Technology "Empowering the Green Revolution"

ECELLIX

ECELLIX

introducing eCell™

Advanced silicon anodes for higher energy batteries

For further information:

Jerry W. Schwartz JD LLM

CEO & Chairman | Founder

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Appendices

Management

Seasoned team with successes

Jerry Schwartz, JD, LLM

Founder, CEO & Chairman of the Board

Education

LLM Int'l Tax Salzburg University
JD Seattle University
MBA University of Puget Sound
BA/BS University of Puget Sound

Career Snapshot

Multiple C-suite roles (CEO, COO, CMO and CLO) with global Fortune 500s to start-up ventures
Director of Microsoft's Office of International Affairs leading global elites engagements
Recognized global expert in licensing and commercialization of breakout technologies

Bio Summary

Fortune 500 executive with extensive experience commercializing university and private sector research into viable products/technologies and driving global licensing opportunities. Well regarded as a culturally aware and technically savvy strategic leader,

As Director of Microsoft's Office of International Affairs, nominally Microsoft's "State Department", Jerry was responsible for executive engagement with senior governmental, corporate and NGO leaders guiding MS Asia-Pacific & India subsidiaries generating over $20B annual revenues. Jerry has served as CEO of Global Development Partners, an international development group focused on creating commercial channels for a variety of technologies targeted at achieving sustainable economies for at-risk communities through infrastructure development.

Jerry has also served as a Senior Consultant with international strategic consulting firm CAP Gemini Sogeti, and as CRO and CMO with Microsoft spinoffs Midisoft and Design Intelligence and VC-backed iCopyright.com. Jerry has concluded over 100 strategic partnerships (aggregate value $1B+).and 50+ global product launches incorporating distribution through 500+ channel partners and OEM licensing partners. Previous legal positions include serving as a staff attorney with Dow Corning Europe in Brussels, Belgium and as International General Counsel for System Integrators Inc.

In additional to serving as an U.S. Air Force JAG officer, Jerry has volunteer service as a university trustee, Entrepreneur-In-Residence at a major research university and on multiple industry advisory boards. He is licensed to practice law in the states of Washington and California. Jerry resides in Snoqualmie, Washington with wife Tricia and has two adult children, Jason and Leeza.

Geoff Deane, PhD

Chief Technology Officer

Education

PhD Mech Engineering UC Santa Barbara
BS Civil Engineering, MIT

Career Snapshot

VP-General Manager R&D, Intellectual Ventures
CTO-EVP Engineering, Inogen Inc.
CTO-Director Project Engineering, Clipper Windpower

Bio Summary

A technologist with broad business capabilities, Geoff serves as CTO of Ecellix, Inc., leading a team of materials scientists in the development of novel silicon anode materials for use in lithium-ion batteries. From 2008 to 2015 Geoff was Vice President and General Manager for the research and product development division of Intellectual Ventures, an invention capital company managing over $5B in capital and holding over 30,000 patent assets. From 2002 to 2008, Geoff was Chief Technical Officer and Executive Vice President of Engineering for Inogen, Inc. (NASDAQ: INGN), a Santa Barbara, California based medical device manufacturer of novel respiratory care solutions. Earlier in his career, Geoff was Chief Technology Officer and Director of Project Engineering of Clipper Windpower (formerly listed as CWP-L).

Geoff received his Ph.D. from the University of California at Santa Barbara in Mechanical Engineering, and his B.S. in Civil and Environmental Engineering from the Massachusetts Institute of Technology. He is co-inventor of more than 130 issued and pending U.S. and international patents.

To follow his passion for making the community a place where people thrive, Geoff serves on the Board of Hopelink, an agency offering an integrated array of programs which enable families in crisis to make progress toward achieving self-sufficiency. He has mentored youth robotics teams for eight years and served on the Board of Directors for seven years (as Chairman for two years) for Washington FIRST Robotics, a STEM-based program serving over 13,000 elementary through high school students.

Geoff lives in Spokane, Washington with his wife, Shawna, and their two children, Emily, and Zachary.

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Management

Seasoned team with successes

Ken Poppe

Chief Financial Officer & Board Secretary

Education

MBA New York University
BA Washington State University

Career Snapshot

SVP Partnerships and CFO, Invention Development Fund
Finance and General Management roles, Starbucks
VP Credit & Operations, LMSI

Bio Summary

Ken oversees the finance, accounting, and HR functions at Ecellix. From 2007 to 2017 he was at Intellectual Ventures where he initially established the finance function for the Invention Development Fund, a $650 million “invention capital” investment fund with international operations, and later became SVP Partnerships. From 1996 to 2007, Ken was at Starbucks Corporation (NASDAQ: SBUX), where he held numerous finance and general management roles, including introducing the Starbucks Card program into U.S. Licensed Stores and later launching the program in Europe. Previously, he was VP Credit & Operations at LMSI, a Menlo Park, CA-based venture debt firm where he approved over $120M in financings to VC-backed startups. Ken started his career as a CPA at an international public accounting firm.

From 2014-2019 Ken served on the Board of Directors for The Coffee Cherry Co., a certified B Corporation that upcycles coffee cherry pulp to improve economic and environmental conditions in origin countries, and he currently serves on the Board for Xinova, LLC, a Seattle-based open innovation company. Ken and his better half Dana live in Scottsdale, Arizona. They have three grown children scattered around the country pursuing their career interests.

Jason Schwartz

Founder, Chief Strategy Officer & Board Member

Education

BA Washington State University

Career Snapshot

Founder, Ecellix
Team Lead, Advanced Silicon Anode Battery Materials Project, Washington State Univ
Staff Intern, Congressman Adam Smith (WA-9)

Bio Summary

Jason leads the company’s strategy and partnership development. He is a 3rd-generation entrepreneur, winner of national business plan competitions and an experienced project leader. While a student at Washington State University he led a project team for a body of innovative battery materials research. Jason led commercialization efforts to secure grant funding to progress the technology to enable founding of Ecellix Inc. and recruitment of an experienced CEO to replace himself, spurring 3rd party investment and development of a world-class leadership team, board and advisors.

Jason has been mentored by several exceptional leaders, including U.S. Congressman Adam Smith, where he served as an intern, by Jerry Schwartz (his father), who was WSU’s first-ever Entrepreneur-in-Residence and a Microsoft executive, and by Brian Turner the former CFO of publicly listed Coinstar and RealNetworks. Jason was a nationally recruited kicker/punter out of high school who competed as a Division I athlete at national powerhouse Eastern Washington University. Recognized for academic excellence as a member of the Honor Society of Phi Kappa Phi, Jason concluded his studies as an entrepreneurship graduate at Washington State University. He lives in Boulder, Colorado with his partner Rose.

ECELLIX

Management

Seasoned team with successes

John Anderson

Founder, SVP Products

Education

MBA University of Kentucky
BS Ohio University

Career Snapshot

Executive Chairman & Founder, Global Development Partners
CEO & Chairman, Strongwatch Sensors Inc.
COO & CFO, Avisere Inc

Bio Summary

John brings over 40 years of executive and technical leadership in Fortune 50 and startup ventures. He has served as a principal product and technology lead in energy, biotechnology, homeland defense and software ventures. He has successfully served as CIO, CTO, COO, CEO and CFO for startup ventures, and as an award-winning Chief Quality Officer for an international logistics venture.

John has served Fortune 50 ventures in a variety of turnaround roles in technology, software, marketing, finance, and strategic development assignments. He earned an MBA from the University of Kentucky and a Bachelor of Science in Physics from Ohio University, and completed various studies at University of Florida, Rollins College, the University of Louisville, UCLA, and MIT. John is listed in several Who's Who publications and served as a commissioned officer of the US Navy, assigned to Admiral Rickover's nuclear power staff.

John has served on the boards of several humanitarian ventures, including Liberty Adoption Advocates, Indigenous Peoples Foundation, and Global Development Foundation. He has been an advisor to a president, an ambassador, a governor, two legislatures, five university provosts, several state representatives, and senators, and two federal congressmen. At the request of the Minister of Health for the Republic of Vietnam, he led a medical education mission to train healthcare practitioners in the prevention, diagnosis, and treatment of HIV/AIDS. Previously, he served as an adult leader in BSA Troop 256 (Kansas City) and Troop 212 (Gig Harbor WA). He lives in Gig Harbor Washington with his wife Mary. They have two sons (married) and five grandkids.

David Liddle

VP Corporate Development

Education

BS Computer Science & Business Administration, University of Wisconsin

Career Snapshot

CIO, Tommy Bahama
CIO, Sur La Table
CIO, Chasing Fireflies

Bio Summary

David has 32 years of technology leadership. During David's 12 years at apparel retailer Lands' End, he was instrumental in building out their ecommerce and international omni-channel enterprise business systems. David later went on to be a CIO for 14 years at retailers including: Tommy Bahama, Sur La Table, CC Wilson and Chasing Fireflies. For 7 years David was CIO/COO for Chasing Fireflies, where he developed their start up go to market strategy through eventual sale to HSN.

For the last few years David has been the North and South America Sales Director for retail software company Logility.

David holds Bachelor of Science degrees in Computer Science and Business Administration, Magna Cum Laude, from the University of Wisconsin – Platteville. David and his wife live in Seattle, Washington and enjoy mountain hiking and sea kayaking. David is also an Advisory Board member for peer-to-peer energy exchange Whygrene.

ECELLIX

Management

Seasoned team with successes

Chris Ventti

VP Manufacturing

Education

BS ME, University of Missouri

Career Snapshot

Developed and implemented the first “JIT/lean” assembly line within General Electric
Successful completion of over 50 process and automation projects - U.S. and worldwide
Architect of several innovative flow processes across multiple industries

Bio Summary

Chris brings over 40 years in senior leadership roles with C-suite experience as CEO, COO, CMO positions. He developed and implemented the first “JIT/lean” assembly line within General Electric in 1981. Chris has completed process development and automation projects in more than 50 domestic and international firms in numerous industries, and brings extensive experience leading and managing technical teams.

He led the operations team and was the architect of a new ‘flow’ process that allowed a venture capital group to grow a sheet metal contract manufacturing company from $16M/year to $125M/year over an 8-year time span. He also fully developed an integrated composites manufacturing process to support $100M in annual revenues.

Chris has served in various manufacturing, technical and executive posts for General Electric, Boeing, The Trane Company, Advantac, Polymer Technology International, National Industrial Concepts, and MicroSurgical Technology companies

Bill Wiles JD

VP Strategic Business Development International

Education

JD, McGeorge School of Law, Univ. of the Pacific
BS Business Administration, West Virginia University

Career Snapshot

Led global gray marketing enforcement initiatives at Apple Computer
Director International Business Development organization at Silicon Graphics
Extensive international licensing experience as a founding exec with Silicon Valley startups

Bio Summary

Bill is a seasoned executive and serial entrepreneur with over 30 years of experience in U.S. and international business formation and operations. His roles have included business formation, securing venture & private capital development, mergers & acquisitions, strategic planning, and sales in primarily technology-related ventures.

As an Attorney in Hawaii Bill handled business cases ranging from contracts to Anti-Trust. Bill was hired at Apple to solve and enforce their world-wide gray market issues and then was hired by Silicon Graphics to create and manage their International Business Development Organization. Additionally, Bill has been the CEO and Co-Founder of a number of Silicon Valley startups with technologies including security, biometrics, IoT and consumer products.

Bill sat on the Board of the Research Foundation at San Jose State University to direct Silicon Valley interactions and government funding. Bill assisted in bringing a Slovenia Accelerator to Silicon Valley and sat on their Board. Additionally, he has been a Mentor to German companies through Germany’s accelerator in Silicon Valley and a business consultant and advisor to a number of International Governments including Korea and Spain and has been involved in bringing in and setting up a wide range of businesses into the US primarily from Asia and Europe. Bill is a licensed attorney in Hawaii, DC, and the Federal Courts and lives in Port St. Lucie, Florida.

ECELLIX

Independent Board Members

Achievements and track record

Brian Turner

Independent Director

Education

BA, Intl Political Science, University of Washington
BBA, Accounting, University of Washington

Career Snapshot

CFO, Real Networks (now RadiSys Corp)
CFO, Coinstar Inc (now Outerwall Inc.)
President, BSQUARE Corp

Bio Summary

Brian serves as a General Manager of DENVER at Slalom LLC. Mr. Turner served as the Chief Financial Officer of Outerwall Inc., (formerly, Coinstar, Inc.) and served as the Chief Financial Officer, Senior Vice President of Finance & Operations and Treasurer of RadiSys Corporation (a/k/a RealNetworks, Inc.). Previously, he served as the President, COO, CFO, and Secretary of BSQUARE Corp., where he oversaw all domestic and foreign operations and managed all facets of its initial public offering in 1999. Mr. Turner served as the COO VP of Finance & Administration at RadiSys Corporation from December 1995 to April 1999.

He served as a Director of Corporate Finance of Price Waterhouse Coopers, LLP, where he was employed from July 1982 to September 1995. He serves as the Chairman and Lead Independent Director of Microvision Inc. He serves as a Director of RALLY Marketing Group Inc. He has been a Director of Cray Inc. since April 18, 2016 and Institute for Systems Biology since July 2015. He has been an Independent Director of Microvision Inc. since July 12, 2006 and Nintex USA LLC since October 2014. He is an experienced Board member having served on over 20 Boards. He serves as a Director of McKinstry Essention, Nintex Group Pty Ltd., Symetra Mutual Fund, McKinstry Inc., DiscoverOrg and InfoArmor, Inc. He serves as a Member of Board of Advisors of Solavei, LLC. He served as a Director of Voltari Corporation (formerly, Motricity, Inc.) from December 2009 to July 11, 2011. He is a Certified Public Accountant.

Bartosz Wojszczyk, PhD

Independent Director

Education

PhD, EE Wroclaw University of Science and Technology, Poland
MS, EE Wroclaw University of Science and Technology, Poland

Career Snapshot

Managing Partner, Decision Point Global
CEO & Board Director, SPARQ Global
Chief Innovation Officer & Board Member, Meralco
Managing Director, Global Growth & Strategy, GE

Bio Summary

Bartosz is an entrepreneur, visionary, technologist and senior executive with over 25 years of experience from early-stage enterprises to Fortune 100 businesses. He has built and managed global operations with up to $2.5B in annual revenue, secured 30M+ in investments, $1B+ in growth capital and supported $15B+ in M&A activities.

He is the founder and Managing Partner of Decision Point Global, an enterprise providing operational leadership, investment and growth capital, and hyper-growth access for early stage clean-tech, deep-tech and high-impact early companies, where he has served and continue to serve in various board and senior executive roles. He is the Chairman and CEO of INVOK Holding, an acquisition enterprise for consolidation of high-precision manufacturing and substantiable construction companies. He was the founder and CEO of SPARQ Global, the first cybersecurity company delivering '100% Data Cyber Resiliency' through its 'Classified-Grade Cybersecurity for Commercial' with '100% Cybersecurity Risk Underwriting'. He has also served as a Board Director for Syngin Technology, Managing Director for Global Growth and Strategy for GE, Chief Innovation Officer and Board Member for Meralco and many other roles.

He has served as an innovation and investment Advisor to Asian Development Bank (ADB) and is currently an innovation and investment Advisor to the United Nations (UN). He has co-authored more than 30 papers, 6 international reports and 5 books. He has served as an Adjunct Professor at the University of North Carolina in Charlotte (UNCC), USA, an Innovation Advisor to AGH University of Science and Technology in Krakow, Poland, and an Adjunct Scientist at Nanyang Technological University (NTU) in Singapore.

ECELLIX

Independent Board Member

Achievements and track record

Saif Qazi, CFA

Independent Director

Education

MBA, Yale University
B.Sc., Economics, Lahore University of Management Sciences

Career Snapshot

VP, Catalus Capital
Beaconhouse Capital

Bio Summary

Saif is a Vice President with Catalus Capital Management where he analyzes investment opportunities and monitors portfolio Investments. Saif was previously an Associate at Beaconhouse Capital Management, a private equity fund focused on distressed and special situations investments. At Beaconhouse, Saif helped source, analyze and structure acquisitions of companies in the hospitality and specialty chemicals industries. Preceding Beaconhouse, Saif was an Analyst at Oasis Asset Management, a South Africa-based mutual fund where he covered consumer and property companies. Prior to joining Catalus, Saif graduated with an MBA from the Yale School of Management.

ECELLIX

Board Advisors

Achievements and track record

Brian Holloway, PhD

Chief Science Advisor to the Board

Education

PhD ME & Materials Sci., Stanford University
MS ME Stanford University
BS Mech Engineering University of Florida

Career Snapshot

VP & Head, Deep Science Fund, Intellectual Ventures
CTO, Lockheed Martin Advanced Technology Lab
Program Manager, DARPA; Director, Luna Innovations
Professor, College of William & Mary; Legislative Assistant, Sen. Rockefeller

Bio Summary

Brian is Head of the Deep Science Fund at Intellectual Ventures. From the moment he finished graduate school in 1997, Brian Holloway has never felt limited or defined by a single career track or interest area. He's ventured through a multitude of industries and roles, from a toe-dip into politics as part of a fellowship with Senator Jay Rockefeller; to earning a tenured professorship in materials science at the College of William and Mary; to building a nanomaterials lab for a startup company; to a civilian gig managing international research projects with the U.S. Navy in London; to getting recruited to manage several programs for the Defense Advanced Research Projects Agency (DARPA); to serving as chief technology officer for Lockheed Martin's Advanced Technology Lab.

That career carousel, it turns out, was unique preparation for Brian's role at Intellectual Ventures (IV), where he is responsible for vetting and advancing a daunting range of technologies as head of the Deep Science Fund. Per Brian, "Deep Science has been chartered to take on the really high-risk, high-reward, long-time-frame stuff that exists within the Invention Science Fund.

Brian holds a PhD ME and Materials Science and a MS ME from Stanford University. Brian competes internationally in Ultimate Frisbee and resides with his wife Laura in Snoqualmie, Washington..

Lonnie Rosenwald, JD

Chief Legal Advisor to the Board/General Counsel

Education

JD University of Washington School of Law
BA History, Stanford University

Career Snapshot

Founder and Managing Attorney, 300Degrees, PLLC
VP and Chief Counsel, Technology Creation and Commercialization, Intellectual Ventures
Chief Technology Counsel/VP Corporate Development, AT&T Wireless
Preston Gates & Ellis (now K&L Gates)

Bio Summary

Lonnie has deep and broad experience in innovations that are reshaping the technology industry, law and investments. Lonnie was named to the "IMA 300 World's Leading IP Strategists 2021." She has developed and led high-performing teams that deliver results in both Fortune 50 and start-up environments. Before launching 300degrees, she served as vice president and lead counsel for patent funds that create and commercialize inventions at Intellectual Ventures, the pioneer in patent fund management. While at Intellectual Ventures, she founded legal structures to enable the commercialization of patents, and helped launch numerous startups and investment funds, including a fourth-generation nuclear power company, several communications companies based on metamaterials technology, a fund that collaborates with the Gates Foundation to develop products for the developing world, and a scientific lab.

She was formerly chief technology counsel and vice president for corporate development at AT&T Wireless, and an intellectual property attorney at K&L Gates, where she supported Microsoft and other technologies clients. She attended the University of Washington School of Law, where she was editor-in-chief of the Washington Law Review. Lonnie was a clerk for the U.S. Court of Appeals for the Ninth Circuit. Her undergraduate degree is from Stanford University.

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Advisory Board

Achievements and track record

Peter Mueller-Bruehl

European Operations Director & Automotive Sector Technology Advisor

Education

MBA, University of Ottawa
BA (honors), Middlesex University London

Career Snapshot

Greencom Networks co-CEO
CTO & CIO, Daimler AG
Chief CIO Staff, DaimlerChrysler AG
Manager Strategy, Mercedes Benz Commercial Vehicles
Venture Partner, SpaceTec Capital Partners

George Crabtree, PhD

Science Advisor

Education

PhD Condensed Matter Physics, Univ of Illinois at Chicago
Member, National Academy of Sciences

Career Snapshot

Director, Joint Center for Energy Storage Research, Argonne National Laboratory
Senior Scientist and Distinguished Fellow, Argonne National Laboratory
Distinguished Professor of Physics, Elec. and Mech Eng. University of Illinois at Chicago
Professor of Physics, Northern Illinois University

Patrick McGrath, PhD

Science Advisor

Education

PhD Chemical Engineering, UC Berkeley
BS, University of Virginia

Career Snapshot

Chief Science Advisor, ARPA-E
Deputy Director for Technology, ARPA-E
Associate, Booz Allen Hamilton

Jennifer Houston

Marketing Advisor

Education

BA Int'l Relations and Affairs, George Washington University

Career Snapshot

Chief Marketing Officer, D-Wave Systems Inc.
Founding President, WE Studio D (division of Waggoner Edstrom Worldwide)
Led Microsoft's People Ready Business Campaign

Kevin Billings

Defense and Public Sector Strategy Advisor

Education

BA, University of Puget Sound
Executive Development Program, Wharton School of Business, University of Pennsylvania

Career Snapshot

Assistant Secretary, U.S. Air Force (Logistics, Sustainability and Energy)
Director Federal Energy Efficiency Programs, Lockheed Martin

Greg MacLean, PhD

Science Advisor

Education

PhD Inorganic Chemistry, University of New Brunswick, Canada
B.Sc. Chemistry, University of Calgary, Canada

Career Snapshot

Lead Engineer, Advanced Battery Cells, General Motors
Sr. Project Engineer, Li-ion Battery Cell Group
Delphi Automotive Systems and EnerDel

Jay Kidd

Strategy Advisor

Education

BSE in EECS, Princeton University

Career Snapshot

Partner, Wing Venture Capital
CTO, CMO, SVP Engineering, and General Manager, NetApp
CTO & VP Product Management, Brocade
VP Mktg, Omneon Video Networks & Multigen-Paradigm

ECELLIX

ECELLIX

introducing eCell™

Advanced silicon anodes for higher energy batteries

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