POET Technologies

June 26, 2026

Annual General Meeting

Order of Business

TIME	ACTIVITY	PRESENTER
1:00pm – 1:10pm	**Introductions and Call to Order**	Kevin Barnes
1:10pm – 1:30pm	**Formal Shareholder Meeting**	
	Chairman	Glen Riley
	Scrutineer	Vanessa Lee, Computershare
1:30pm – 2:15pm	**Presentations**	Suresh Venkatesan
2:15pm – 2:45pm	**Q&A**	POET Management
2:45pm	**Conclusion**	Kevin Barnes

POET Representatives

Suresh Venkatesan	Chief Executive Officer
Thomas Mika	Chief Financial Officer
Sandeep Kumar	Chief Operating Officer
Raju Kankipati	Chief Revenue Officer
Kevin Barnes	SVP Finance and Administration and Treasurer
Glen Riley	Director, Chair Compensation Committee
Bob Tirva	Director, Audit Committee Chair, Compensation Comm
Sohail Khan	Director, Chair CGNC and Lead Independent Director

- Appointment of Secretary of Meeting and Scrutineer
- Notice of Meeting
- Scrutineer’s Report
- Destruction of Proxies
- Minutes of the Previous Meeting
- Financial Statements and Auditor’s Report
- Election of Directors
- Appointment of Auditors
- Other Business
- Termination of Meeting

Shareholders will vote on the following resolutions:

1. To elect the directors to hold office until the next Annual Meeting of Shareholders or until their successors are elected or appointed;
2. to appoint Davidson and Company LLP as the auditors of the Company and to authorize the directors to fix their remuneration.

POET Technologies

The Three C’s
CREDIBILITY, CAPACITY, CAPABILITY

Safe Harbor

This presentation contains forward-looking statements and forward-looking information within the meaning of U.S. and Canadian securities laws, including but not limited to statements relating to revenue potential, growth and/or projections, as well as the expected performance of products.

Forward-looking statements and information can generally be identified by the use of forward-looking terminology or words, such as, "continues", "with a view to", "is designed to", "pending", "predict", "potential", "plans", "expects", "anticipates", "believes", "intends", "estimates", "projects", and similar expressions or variations thereon, or statements that events, conditions or results "can", "might", "will", "shall", "may", "must", "would", "could", or "should" occur or be achieved and similar expressions in connection with any discussion, expectation, or projection of future operating or financial performance, events or trends. Forward-looking statements and forward-looking information are based on management's current expectations and assumptions, which are inherently subject to uncertainties, risks and changes in circumstances that are difficult to predict.

Such forward-looking information or statements are based on a number of risks, uncertainties and assumptions which may cause actual results or other expectations to differ materially from those anticipated and which may prove to be incorrect. Assumptions have been made regarding, among other things, management's expectations regarding Such statements include the Company's expectations with respect to the success of the Company's joint venture, product development efforts, the performance of its products, the expected results of its operations, meeting revenue targets, and the expectation of continued success in its financing efforts, the capability, functionality, performance and cost of the Company's technology as well as the market acceptance, inclusion and timing of the Company's technology in current and future products, plans for and completion of projects by the Company's third-party consultants, contractors and partners, and the necessity to incur capital and other expenditures. Actual results could differ materially due to a number of factors, including, without limitation, operational risks in the completion of the Company's anticipated projects, delays or changes in plans with respect to the development of the Company's products, a delay in or failure to deliver needed supplies or services from any of the Company's suppliers, risks affecting the Company's ability to execute projects, the ability of the Company to generate interest in or sales for its products, the ability to attract key personnel, and the ability to raise additional capital. Although the Company believes that the expectations reflected in the forward-looking information or statements are reasonable, the prospective investors in the Company's securities should not place undue reliance on forward-looking statements because the Company can provide no assurance that such expectations will prove to be correct. Forward-looking information and statements contained in this presentation are as of the date of this presentation and the Company assumes no obligation to update or revise any forward-looking information and statements except as required by law.

Other than any obligation to disclose material information under applicable securities laws or otherwise as may be required by law, the Corporation undertakes no obligation to revise or update any forward-looking statements after the date hereof.

The Three C's

CREDIBILITY

With approximately $830 million in cash on our balance sheet – including the $400 million raise that was completed on May 18 – we have the confidence of our partners that we can scale and deliver

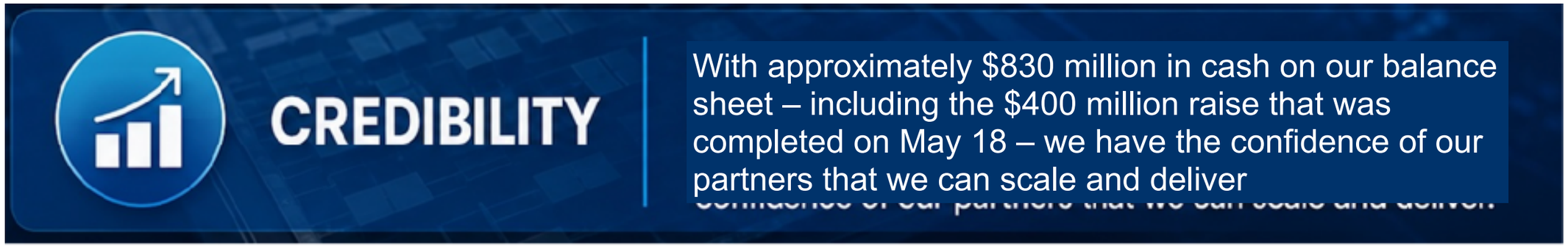
CAPACITY

We have more than 20,000 square feet of assembly space and the capacity in Malaysia to produce up to 1 million units of our POET Optical Interposer™-based light sources and optical engines.

CAPABILITY

We continue to demonstrate leadership in photonic integration. Our "semiconductorization of photonics" process, our interposer-based platform, and our rapidly expanding footprint show the ability to provide viable solutions that meet the demands for AI infrastructure.

The Three C's



Customer momentum & commercial traction

COMMERCIAL TRACTION

New Customer

US $50M

Lumilens

Wafer-level photonics integration for pluggable & near-packaged optics (NPO). Broader relationship targeting US$500M+ over 5 years.

New Customer

US $5M+

Unnamed Systems Integrator

Production order for POET 800G optical engines for inclusion in optical transceiver modules

Existing customer

US $0.5M+

Adtran

Existing customer for high-density 100G LR4 modules. New production orders received this year

Existing customer

US $0.25M+

Unnamed Customer

New purchase order for custom optical engine design. Ongoing commercial relationship with POET

TECHNOLOGY VALIDATION

New Customer

US $1M+ NRE

Unnamed Customer

NRE development agreement to use POET's interposer platform for high-power External Light Source applications.

New Customer

US ~$0.5M NRE

NTT Innovative Devices

Entry into front-haul mobile networking — co-development of next-gen photonic solutions for 5G infrastructure.

New Customer

Joint Dev

LITEON Technology

Strategic collaboration to co-develop next-gen optical communication modules on POET's interposer platform.

Existing customer

1.6T development

Lessengers

Joint development of 1.6T 2×DR4 optical transceiver for next-gen AI clusters and hyperscale data centers

Technology & Product Leadership

ECOC '25

Most Innovative
Chip-scale Packaging /
Optical Sub Assembly Product

ICCSZ Awards

Product Innovation Award
at 12th Infostone
Communication Consultant Shenzhen

Lightwave

POET Teralight™
Advanced AI
Connectivity Award

ECOC '25

Multiple talks + technical paper on hybrid integration for 1.6T engines

CIOE '25

Showcased breakthrough light source & 1.6T optical engines for AI and cloud markets

OFC ‘26

Live demo of POET Blazar hybrid laser platform — extraordinary customer interest

The Three C’s

Volume Manufacturing Readiness

Two manufacturing partners established

Penang, Malaysia — strategic location in a world-class electronics manufacturing hub.

Wafer-level manufacturing process initiated

Key process steps underway; foundation for scalable, high-volume production of optical engines.

On schedule for 2H 2026 production ramp

Production ramp aligned with customer delivery commitments

Capacity expansion underway for 2027+

Infrastructure and partner capacity being scaled to meet growing demand from AI and data center customers.

Production Roadmap

✓ On Schedule

Capacity expansion – Capital Investments

Leveraging Balance Sheet Strength

Strategic capital deployment to drive capacity, supply chain resilience, and headcount growth

CAPITAL DEPLOYMENT

~$50M Equipment Investment in H2 2026

Deploying capital to purchase critical manufacturing equipment, expanding production capacity to meet growing customer demand for POET's optical interposer products.

SUPPLY CHAIN SECURITY

Securing Critical Component Supply

Industry faces severe component shortages. POET's strong balance sheet enables proactive procurement of critical components — locking in supply while competitors face disruption.

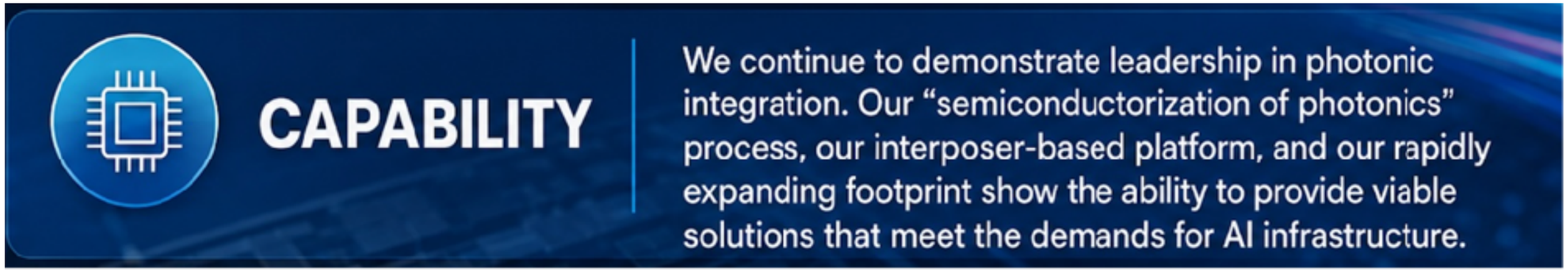
INFRASTRUCTURE EXPANSION

Cleanroom & Office Expansion

Expanding cleanroom footprint and office space to accommodate rapid headcount growth, supporting increased R&D throughput and scaling commercial operations.

Team Expansion: 115 global employees

The Three C's



Strategic Acquisitions and Partnerships

Augmenting core technology across two high-value verticals — fueled by balance sheet strength

EXTERNAL LIGHT SOURCE VERTICAL

High-Power Lasers for AI Networks

- POET positioned as a key supplier of high-power lasers to AI network infrastructure
- Strategic acquisition to strengthen market position in this fast-growing segment
- Vertical integration enables end-to-end control — from laser source to photonic output

Key Outcome:
Vertical integration + AI demand capture

HIGH SPEED COMMUNICATIONS VERTICAL

Interposer Platform Integration

- Acquire key components and integrate directly onto the POET interposer platform
- Creates a differentiated, high-value product offering for high-speed communications customers
- Platform integration drives superior performance, tighter tolerances, and reduced system complexity

Key Outcome:
Differentiated platform product + higher customer value

Laser market for Scale-up Networks

$20B+ Global laser market in 2024

Projected $30B+ by 2030

AI data centers already account for more than half the market and will represent an even larger share by 2030. The market will likely far exceed $30B given rapid AI data center CapEx growth.

~85% CAGR InP optical lane demand forecast (CY26–CY30)

Lumentum growing InP wafer fab capacity, Coherent's InP capacity doubled in 2026 and will double again in 2027: But still not growing fast enough to keep up with demand

Supply is Constrained

Top 3 suppliers hold 68% market share — and are sold out

Both Lumentum and Coherent require up-front cash to secure capacity. Nvidia invested $2B in each just to lock in supply. Market cap of each has grown 10× in one year — yet demand is still outpacing all supply.

WHY CONVENTIONAL DFB LASERS CAN'T KEEP UP WITH DEMAND

Yield drops as power increases

InP DFB fabrication yields decline significantly as output power requirements climb to 300–600mW+. Higher power = more heat, more defects, lower usable die per wafer.

Multi-wavelength complexity

DWDM/CWDM requires multiple precisely-tuned wavelengths (1.5nm spacing). Each requires new masks, separate epitaxial runs, and independent qualification — multiplying cost and time

Narrow linewidth limitations

Advanced modulators — silicon photonics micro-ring resonators — require extremely narrow laser linewidth. Conventional DFB lasers struggle to meet this spec at volume.

Supply chain concentration risk

Three players dominate 68% of supply. Hyperscalers must pre-pay and queue. Any capacity disruption ripples across the entire AI network buildout.

POET Blazar directly addresses every one of these constraints

External cavity architecture · Wavelength selection via POET Interposer · Narrow linewidth · Manufacturing-ready by H2 2027

Market data source: Lightcounting Optics for AI, Jan 2026

POET Blazar™: The laser for the AI Era

POET Blazar™ is a novel External Cavity Laser (ECL) built on POET's patented Optical Interposer — delivering multi-channel, multi-frequency, high-power output with wafer-scale chip-scale packaging.

THE CHALLENGE WITH CONVENTIONAL DFB LASERS

Power Law Yield

DFB arrays suffer power law yield degradation. As channel count and power increase, good-die yield collapses — making high-volume supply unreliable.

Packaging Complexity

Individual laser sub-mount assemblies require individual active alignment per channel. Form factor and BOM costs scale with channel count.

Wavelength Precision

Maintaining tight channel spacing requires extreme binning. Thermal crosstalk between adjacent emitters causes wavelength drift and crosstalk.

THE BLAZAR SOLUTION

High Channel Count

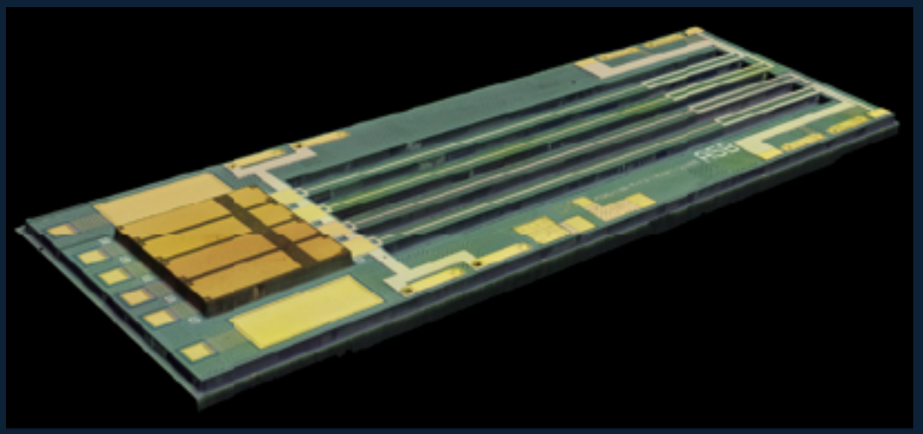
Conventional semiconductor technology enables high and variable channel count. External cavity architecture avoids power law yield of DFB arrays.

Wafer-Scale Wavelength Control

Center wavelength (±2nm) and channel spacing (down to 100GHz) controlled by CMOS-precision lithography on the Interposer — independent of the gain chip.

High Power + Single Mode

>300mW per channel via MOPA architecture. Phase synchronization delivers single-mode operation. Temperature stabilization provides further wavelength precision.



POET Blazar™ — Multi-channel External Cavity Laser

Wafer-level chip-scale package on POET Optical Interposer

High Power	CWDM–DWDM	±2nm	Wafer-Scale
per channel	spacing	wavelength ctrl	packaging

★ Patented Technology

POET Blazar™: Innovation to Production

BLAZAR COMMERCIAL ROADMAP

REVENUE INFLECTION

Market takes off in 2028 — POET positioned with prototype-validated technology from 2026

OCI MSA Requirements — a Perfect Match for Blazar

The OCI Multi-Source Agreement (AMD, Broadcom, Meta, Microsoft, Nvidia, OpenAI) defines the open optical interconnect standard for AI scale-up — and every key requirement maps directly to Blazar's capabilities.

High Power per channel	**✓ Blazar MOPA architecture delivers >300mW per channel**
Multiple wavelengths (8× CWDM/ DWDM)	**✓ Single Blazar platform covers all spacings: 400GHz → 100GHz**
Narrow linewidth	**✓ External cavity design delivers narrow linewidth — DFB cannot**

OCI MSA compliance expands Blazar's TAM and SAM significantly in 2028

FLIP-CHIP LASER OPPORTUNITY

Markets Evolving to POET's Core Strength

Flip-chip lasers are increasingly in demand for both high-speed optical engines and CW light sources. POET has mastered the laser flip-chip process over years of development — creating a significant advantage as large laser companies seek integration partners.

- **Mastered Flip-Chip Process**
- **High-Speed & CW Applications**
- **Large Laser Companies Approaching POET**

High-Speed Scale-out and Scale-up Networks

THE MARKET IS MIGRATING — SPEED & FORM FACTOR

800G
Today
Pluggable (QSFP-DD / OSFP)
Deployed at scale

▶

1.6T
Now → 2027
Pluggable (OSFP)
Rapid ramp underway

▶

3.2T+
2028+
NPO & Co-Packaged Optics (CPO)
Design-in phase

POET SERVES
All three speed tiers and all form factors — today and tomorrow
✓ **Full roadmap coverage**

THE POET OPTICAL INTERPOSER PLATFORM — UNIQUE CAPABILITIES

Hybrid Integration
Electrical and optical components co-integrated on a single interposer platform — eliminating wire-bonds and enabling semiconductor-style assembly.

Monolithic Passives
MUX, DMUX, waveguides, micro-mirrors, and V-grooves integrated monolithically — enabling a true System-on-Chip architecture for photonics.

Wafer-Scale Assembly
Photonics assembly using conventional semiconductor wafer-scale techniques — delivering higher yield, lower cost, and volume manufacturability.

No Wire-Bonds
Direct electrical integration eliminates the parasitics, bandwidth limitations, and reliability risks inherent in wire-bonded photonic assemblies.

Speed Scalability
Platform architecture scales from 800G through 1.6T to 3.2T+ — the same integration approach serves every speed tier in the migration roadmap.

Form Factor Agnostic
Supports pluggable, Near Packaged Optics (NPO), and Co-Packaged Optics (CPO) — uniquely enabling customer migration across all deployment models.

The Three C's — In Summary

POET Technologies is executing across all three pillars — today

C1 CREDIBILITY

Customers with Committed designs and POs

- Lumilens: $50M agreement, $500M+ 5-year potential
- Real production order received for 800G optical engines
- 10 active engagements: $75–$185M potential ARR by 2028
- 3× major industry awards + live OFC '26 Blazar demo

C2 CAPACITY

Manufacturing Is Running — On Schedule

- 2 manufacturing partners established in Penang, Malaysia
- Production ramp confirmed on track for H2 2026
- ~$50M capital equipment deployment in H2 2026
- Supply chain being secured; cleanroom & office expansion underway

C3 CAPABILITY

Technology the Market Is Chasing

- Blazar: OCI MSA-aligned, customer prototypes H2 2026
- $30B+ laser market — top 3 suppliers completely sold out
- Interposer platform spans 800G → 1.6T → 3.2T+
- Strategic acquisitions to deepen vertical integration

POET: NASDAQ