

ASPEN AEROGELS, INC.
20 FOMBS ROAD, BUILDING #
NORTHBOROUGH, MA 01532



SCAN TO
VIEW MATERIALS & VOTE



VOTE BY INTERNET

Before The Meeting - Go to www.proxyvote.com or scan the QR Barcode above. Use the Internet to transmit your voting instructions and for electronic delivery of information up until 11:59 p.m. Eastern Time the day before the meeting date. Have your proxy card in hand when you access the web site and follow the instructions to obtain your records and to create an electronic voting instruction form.

During The Meeting - Go to www.virtualshareholdermeeting.com/ASPEN2026

You may attend the meeting via the Internet and vote during the meeting. Have the information that is printed in the box marked by the arrow available and follow the instructions.

VOTE BY PHONE - 1-800-690-6903

Use any touch-tone telephone to transmit your voting instructions up until 11:59 p.m. Eastern Time the day before the meeting date. Have your proxy card in hand when you call and then follow the instructions.

VOTE BY MAIL

Mark, sign and date your proxy card and return it in the postage-paid envelope we have provided or return it to Vote Processing, c/o Broadridge, 51 Mercedes Way, Edgewood, NY 11717.

TO VOTE, MARK BLOCKS BELOW IN BLUE OR BLACK INK AS FOLLOWS:

V87848-P39769

KEEP THIS PORTION FOR YOUR RECORDS
DETACH AND RETURN THIS PORTION ONLY

THIS PROXY CARD IS VALID ONLY WHEN SIGNED AND DATED.

ASPEN AEROGELS, INC.

The Board of Directors recommends you vote FOR the following:

1. Election of Directors

For All Withhold All For All Except

To withhold authority to vote for any individual nominee(s), mark "For All except" and write the number(s) of the nominee(s) on the line below.

Nominees:

- 01) Steven R. Mitchell
02) Donald R. Young

The Board of Directors recommends you vote FOR proposals 2 and 3:

2. The ratification of the appointment of KPMG LLP as Aspen Aerogels, Inc.'s independent registered public accounting firm for the fiscal year ending December 31, 2026. For Against Abstain
3. Approval, on a non-binding, advisory basis, of the compensation of Aspen Aerogels, Inc.'s named executive officers, as disclosed in its Proxy Statement for the 2026 Annual Meeting. For Against Abstain

The Board of Directors recommends you vote 1 YEAR on proposal 4:

1 Year 2 Years 3 Years Abstain

4. Approval, on a non-binding, advisory basis, of the frequency of holding an advisory vote on the compensation of Aspen Aerogels, Inc.'s named executive officers. For Against Abstain

The Board of Directors makes no recommendation regarding your vote on proposal 5, and proxy cards returned without making specific instructions will be voted ABSTAIN:

5. Approval, on a non-binding, advisory basis, of a proposal regarding the future declassification of the Board of Directors. For Against Abstain

NOTE: Proposal 1 is to elect Steven R. Mitchell and Donald R. Young as Class III directors to serve three-year terms expiring in 2029. In their discretion, the proxies are authorized to vote upon such other business as may properly come before the meeting or any adjournment or postponement thereof.

Please sign exactly as your name(s) appear(s) hereon. When signing as attorney, executor, administrator, or other fiduciary, please give full title as such. Joint owners should each sign personally. All holders must sign. If a corporation or partnership, please sign in full corporate or partnership name by authorized officer.

Signature [PLEASE SIGN WITHIN BOX] Date

Signature (Joint Owners) Date