

VEECO INSTRUMENTS INC.
 TERMINAL DRIVE
 PLAINVIEW, NEW YORK 11803

VOTE BY INTERNET

Before The Meeting - Go to www.proxyvote.com

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 cut-off date or 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/VECO2021

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 cut-off date or 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.

VOTE IN PERSON: You may choose to attend, and vote in person at the stockholder meeting. Many stockholder meetings have attendance requirements including, but not limited to, the possession of an attendance ticket issued by the entity holding the meeting. Please check the meeting materials for any special requirements for meeting attendance, as well as directions on how to get to the meeting location. At the meeting, you will need to request a ballot to vote these shares.

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

D42391-P51698

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

THIS PROXY CARD IS VALID ONLY WHEN SIGNED AND DATED.

VEECO INSTRUMENTS INC.

The Board of Directors recommends you vote FOR the following proposals:

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.

1. To elect three directors named in the proxy statement to hold office until the 2024 Annual Meeting of Stockholders and until their successors are duly elected and qualified;

Nominees:

- 01) Richard A. D'Amore
- 02) Keith D. Jackson
- 03) Mary Jane Raymond

2. To approve an amendment to Veeco's 2016 Employee Stock Purchase Plan to increase the authorized shares of Veeco's common stock thereunder by 750,000 shares;

3. To approve, on a non-binding advisory basis, the compensation of our named executive officers;

4. To ratify the appointment of KPMG LLP as our independent registered public accounting firm for 2021; and

5. To consider such other business as may properly come before the meeting.

For Against Abstain

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

Important Notice Regarding the Availability of Proxy Materials for the Annual Meeting:

The Notice and Proxy Statement and Annual Report are available at www.veeco.com.

D42392-P51698

**VEECO INSTRUMENTS INC.
Annual Meeting of Stockholders
May 6, 2021 8:30 AM, EDT
This proxy is solicited by the Board of Directors**

The stockholder(s) hereby appoint(s) William J. Miller, Ph.D. and John P. Kiernan, or either of them, as proxies, each with the power to appoint his substitute, and hereby authorize(s) them to represent and to vote, as designated on the reverse side of this ballot, all of the shares of Common Stock of VEECO INSTRUMENTS INC. that the stockholder(s) is/are entitled to vote at the Annual Meeting of Stockholders to be held at 8:30 AM, EDT on May 6, 2021, at Terminal Drive, Plainview, New York 11803, and any adjournment or postponement thereof.

This proxy, when properly executed, will be voted in the manner directed herein. If no such direction is made, this proxy will be voted in accordance with the Board of Directors' recommendations.

Continued and to be signed on reverse side