BOARD APPROVED
JUNE 9, 2023

Cindy Ream
Corporate Secretary

PURDUE UNIVERSITY | College of Engineering

To: Patrick J. Wolfe, Provost and Executive Vice President for Academic Affairs and Diversity

From: Arvind Raman, John A. Edwardson Dean of the College of Engineering Arvind Raman

Date: April 27, 2023

Subject: **Recommendation Alejandro Strachan for Named Professorship**

I am pleased to recommend Dr. Alejandro Strachan be named the Reilly Professor of Materials Engineering. Professor Strachan's case has been recommended by the MSE Primary Committee, 4-0, and by the Engineering Named Professorship Committee, 7-0, in favor of a named professorship. A full vita, recommendation letters, and abbreviated vita are enclosed for your review.

Professor Strachan and his team developed and published user-friendly apps to introduce simulations and machine learning to students and experimentalists across the globe. The apps have been utilized by over 25,000 users, worldwide, to perform simulations with tools deployed by the Strachan group. Professor Strachan currently serves as the Deputy Director of NSF's Network for Computational Nanotechnology and nanoHUB.org (2013-present) and was previously the director of the DoD ONR MURI Center.

Dr. Strachan is the recipient of The Minerals, Metals & Materials Society Early Career Faculty Fellow (2009). He is also the recipient of the R&D 100 award with nanoHUB for his work in simulations and data (2020). The R& D 100 award is very prestigious and normally awarded to Fortune 500 companies and national labs for the year's most revolutionary developments in Science and technology. Other remarkable awards include the Reinhardt Schuhmann Jr. Undergraduate Teaching Award (2007 & 2017), the University Faculty Scholar Award (2012-2017), and University Teaching for Tomorrow Award (2007).

Dr. Strachan, since joining Purdue in 2005, has garnered over $15 Million in external funds support and successfully acquired a fruitful $21 Million in proposals for the university as co-PI. The most notable funds that Strachan has attracted include DoE, National Nuclear Security Agency, Predictive Science Academic Alliance Program Center for Prediction of Reliability, Integrity and Survivability of MEMS (PRISM) (4/2008-4/2013) $1,029,276; DoD "Shock wave energy dissipation (SWSED) by mechanochemically-active nanoporous materials" (6/2012-5/2017) $1,220,883; DOE IACMI (7/2012-6/2020) $1,110,000; DoE Basic Energy Sciences "Shape Memory in nanoscale metallic alloys" (8/2007-1/2021) $1,352132; and ONR MURI PCP@Xtreme- Predictive Chemistry & Physics at Extreme Temperature and Pressure: Molecules, Crystals, and Microstructures (6/2016-5/2021) $1,975,000.

It is with respect for his great accomplishments, that the ENPC wishes to recognize Dr. Strachan and encourage his continued commitment to elevating Purdue's College of Engineering through a named professorship.

Approval Recommended:

Patrick J. Wolfe, Provost and Executive Vice President For Academic Affairs and Diversity
Miller Family Professor of Statistics and Computer Science

5/4/2023
Date

Approved:

Mung Chiang, President
Roscoe H George Distinguished Professor of
Electrical and Computer Engineering

5.17.2023
Date

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