PURDUE UNIVERSITY® | **College of Science**

Jean Chmielewski

Interim Dean of Science
AW Kramer Distinguished Professor
Department of Chemistry

To: Patrick Wolfe

From: Jean Chmielewski

Date: May 4, 2023

Subject: Nomination of Dr. Jie Shen for a Distinguished Professor in Mathematics

I forward to you the nomination of Dr. Jie Shen for consideration as a Distinguished Professor in Mathematics. Dr. Shen's nomination has been endorsed by the Department, the College of Science's Area Promotion Committee and a university committee of distinguished professors. A report from the university committee is attached, along with the Form 36, both a full vita and biosketch plus letters from external referees.

Jie Shen's research spans a broad range in computational mathematics and applied sciences, especially spectral methods, computational fluid dynamics, and computational materials science. He has made numerous outstanding contributions that are widely followed by mathematicians and practitioners. He has resolved some key open questions in projection methods for the incompressible Navier-Stokes equations and has pioneered the development and analysis of efficient and accurate numerical schemes that overcome some long-standing obstacles for spectral methods, multiphase complex fluids, and gradient flows. He has published 2 books and over 260 papers, many of them, even since his early career around 1990, highly influential. His work has far-reaching impacts in computational science and engineering and has received worldwide recognition, as evidenced by his long list of awards (SIAM Fellow, AMS Fellow, Fulbright Award, etc.), high rankings in lists of top mathematicians, and abundant funding support (continuous support since 1992 by about 40 grants, mostly from NSF and AFOSR).

For the reasons cited above, and taking all due deliberations into consideration, I am delighted to endorse the nomination of Dr. Jie Shen as a Distinguished Professor in Mathematics.

Recommended Approval:

Patrick Wolfe   Date
Provost and Executive Vice
President for Academic Affairs and
Diversity
Miller Family Professor of Statistics and
Computer Science

Approved:

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