



THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, INC.

Certifies that

ALEXANDER NOSICH

has been elected to the grade of

Fellow

***for contributions to the applications of computational
electromagnetics to antennas and open waveguides.***



1 JANUARY 2004

A handwritten signature in blue ink that reads "Arthur N. Winston".

President

A handwritten signature in blue ink, appearing to be "S. H. ...".

Secretary