



THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, INC.

Certifies that

PAUL KIM-HO CHU

has been elected to the grade of

Fellow

*for contributions to the understanding of plasma implantation
and deposition.*

A handwritten signature in blue ink, appearing to read "Michael S. Allen".

President

A handwritten signature in blue ink, appearing to read "Seventeenth".

Secretary



1 JANUARY 2003