



THE **I**NSTITUTE OF  
**E**LECTRICAL AND  
**E**LECTRONICS  
**E**NGINEERS, INC.

Certifies that

**BASILIO CATANIA**

has been elected to the grade of

**Fellow**

for contributions to  
the development of optical fiber  
telecommunication systems.



January 1, 1990

*Ernest W. Pugh*  
President

*W. J. R. M.*  
Secretary