

Douglas Gorham, Ed.D.

Douglas Gorham is currently the Director of Educational Outreach for IEEE Educational Activities. Prior to joining IEEE in 2000 he served as a pre-university educator for twenty-six years, including twelve years as a high school principal. Two related programs created by Doug while serving as a principal included: coordinating the planning and implementation of a high school electronics-engineering program, now in its seventh year, and developing and implementing interdisciplinary programs combining pre-calculus and physics.

In his position with IEEE he has been involved in activities focused on promoting technological literacy among pre-university educators and their students and in developing collaborations between engineers and their local pre-university community. He has authored or co-authored several related articles and papers including:

- Gorham, D., Newberry, P. B., & Bickart, T. A. (2003). Engineering accreditation and standards for technological literacy. Journal of Engineering Education, 92, 95-99.
- Sechrist, C.F., Batchman, T.E., Feisel, L. D., Gmelch, W. H., Gorham, D., and Stoler, B. C. (2002). Partnerships Take the Lead: A Deans Summit on Education for a Technological World. IEEE Transactions On Education 45(2), 118-127.
- Gorham, D. "Promoting Engineering, Science and Technological Literacy: Pre-College Educator Resources." Proceedings of the American Society for Engineering Education Annual Conference & Exposition, 2002.

He has developed and presented sessions at several engineering and education conventions including:

- "Engineering and Mathematics: How They Fit Together." National Council of Teachers of Mathematics Annual Meeting, Philadelphia, PA. April 2004.
- "Connecting Engineers with the Pre-University Community." Annual meeting of IEEE Region 9, Buenos Aires, Argentina. March 2004.
- "Fostering Campus Collaborations Between Colleges of Education and Engineering." Annual meeting of the American Association of Colleges for Teacher Education, New Orleans, LA. January 2003.
- "Preparing Volunteers to Work with Local Teachers and School Districts to Promote Technological Literacy," Annual Meeting of the Council of Engineering and Scientific Society Executives, San Jose, CA. July 2002.
- "Colleges of Engineering and Colleges of Education: Successful Campus Collaborations," American Society for Engineering Education Annual Conference & Exposition, Montreal, Canada. June 2002.
- "Nurturing a Culture of Innovation and Development in Technology, Electronics and Electrical Engineering," Edutech/SAIEE Conference, Johannesburg, South Africa, May 2001.

He has coordinated two conferences featuring deans and faculty from colleges of engineering and education, entitled "*Taking the Lead: A Deans Summit on Education for*

a Technological World”, Baltimore, MD, USA 2001 and “Deans Summit II: Fostering Campus Collaborations, Miami, FL, USA 2003.”

He currently is a member of Association for Supervision and Curriculum Development, the National Association of Secondary School Principals, the American Association for Engineering Education, the National Science Teachers Association and the International Technology Education Association. He is a member of the Editorial Board for the National Engineering and Technology Education Resource Center and is the chairman of a task force focusing on promoting technological literacy for the International Technology Education Association.