

Relevance of IEEE and its Societies for establishing a strong global bond for the sane and peaceful advancement of science & engineering technology during the daunting era of global restructuring, and especially why IEEE-GRSS deserves our particular attention worldwide in East-Asia and for developing countries within the ASEAN region

Wolfgang-Martin Boerner, Fellow IEEE (LF'02)
Professor Emeritus & Distinguished Radar Research Scientist
University of Illinois at Chicago, Electrical & Computer Engineering Dept.
Communications, Sensing & Imaging and Navigation Laboratory
900 W. Taylor Street, UIC-608, SEL-4210A, m/c 154
Chicago, Illinois, USA 60607-7018
O: + 1-847-498-4457, H: + 1-847-498-4457, wmb1uic@yahoo.com

Abstract:

As an active fellow of one of the world largest scientific institutions, the **IEEE {Institute of Electrical & Electronic Engineers}** with more than 435,000 registered engineers and scientists covering now a wide plethora of additional disciplines represented by currently 36 societies worldwide, I am serving currently as the Outreach Liaison for its **GRSS {Geoscience & Remote Sensing Society}** for the Asia-Pacific, SE-Asia and South Asia regions. It is in this function for me to provide a succinct introduction of IEEE and its societies paying major emphasis on maintaining and fostering the strong bond among its members worldwide in view of the daunting era of global restructuring engulfing all nations across all continents. A succinct overview of IEEE, its societies and structure is first provided, followed by a more in depth assessment of GRSS and its technical committees, and concluded with prime examples of its huge plethora of applications in geo-environmental remote sensing and geo-physical stress change monitoring. Particular emphasis is placed on a strong membership drive for both IEEE and for IEEE-GRSS and the establishment of a well distributed network of GRSS Chapters particularly within the equatorial belt, which hitherto had been overlooked and deserves top future attention. As a most innovative example, it will be shown and demonstrated how the associated wide swath-polarimetric SAR technologies will greatly improve local infrastructure, agriculture, fisheries and natural hazard detection and disaster assessment and reduction; and therewith enhancing commerce and strengthening local industry plus technology particularly for developing countries within the Tropical Belt regions of which IEEE and its Societies are very concerned.

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