

Message from Managing Director Takehana



Toshio Takehana

Three years have passed since the first *FUJITSU TEN TECHNICAL JOURNAL* was published. Its purpose is to introduce FUJITSU TEN's work to a larger world.

This, the third issue, takes as its theme digital signal processing (DSP) as it applies to sound field control in the automobile.

The technology for digitizing analog signals for high-level signal processing has been around for some three decades, but it took FUJITSU TEN, backed by its parent firm, FUJITSU LIMITED and its advances and experience in logic device technology and LSI development, to produce the DSP ICs that would make digital audio processing practical for car audio systems. The products we demonstrated at the Frankfurt Motor Show in autumn, 1989, and at the Tokyo Motor Show in 1989, drew very favorable responses which, of course, pleased the engineers who were engaged in product development over the years.

During my long career in this field, I have been fortunate in having many chances to talk with engineers engaged in work in car electronics around the world, at meetings of the Society of Automotive Engineers (SAE) and the Institute of Electrical and Electronics Engineers (IEEE) and at many overseas institutes and corporations. We enjoyed frank, friendly discussions on technical and many other topics.

I grew to feel that such meetings and discussions enabled us, as engineers, to transcend the divisions of company and country. I believe that one of the missions of this Journal is to further such work and foster such technical

exchange.

The number of new automobiles registered in Japan has set a new record, and both domestic and foreign cars crowd Japan's roads. The road length per car in Japanese cities is said to be much shorter than that in population centers in other places. In Japan, campaigns are promoting ways to ease traffic snarls by using communication and information processing techniques such as the Radio Data System (RDS) now in practical use in Europe.

With automobiles and their problems a world-wide phenomenon, it would be well to work more toward standardization in development and manufacturing, I believe, especially in such areas as exhaust emission control systems, antipollution measures, and enhanced safety.

It is my hope that FUJITSU TEN will be able to use its experience and know-how in audio equipment, electronic control, communications, and information processing to increasingly contribute to such developments.

It is my hope that the upcoming generation of engineers in automotive and other fields will seek to acquire and use the knowledge of the past and work daily together to realize the dreams of the future.

I hope you will find the articles in this Journal, written by some of these very engineers, informative and interesting.



Toshio Takehana
Managing Director