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Foreword

The present issue of the Reports of *Research Institute for Applied Mechanics, Kyushu University, Number 149* collects papers for commemoration of Professor Emeritus Hideki Zushi, who finished his carrier at Research Institute for Applied Mechanics, Kyushu University in March 2015.

Professor Zushi obtained the doctor of engineering from Kyoto University in 1988. He became an assistant at Faculty of Engineering, Kyoto University in 1979, and became an associate professor there in 1990. Professor Zushi moved to Advanced Fusion Research Center (AFRC) of our institute in 1997 and subsequently became the Director of the AFRC.

Research fields of Professor Zushi are widely distributed into areas on heat transport phenomena in plasmas, radio-frequency plasma current drive for steady state operation (SSO) in tokamaks, plasma-wall interaction in SSO, as well as plasma diagnostics developments to study these physical and engineering subjects. In particular, he devoted himself to take statistical approach into the physical systems, such as emergence probability of improved plasma-confinement states and turbulences in scrape-off layers (in plasma peripheral region). The diversity of his research activities can be recognized by the large number of publications including research papers and articles in the wide range of subjects on plasma physics. Professor Zushi became a distinguished professor in Kyushu University in 2012. His primary subject as the distinguished professor was “Physics and macro control of particle circulation in a multi hierarchical complex-open system”. More details about this topic are described in his emeritus commemoration paper in this issue.

Because of his deep insight and understanding of the complex physics issues through as his enthusiastic and delightful scientific discussions among the colleagues, he has conducted a lot of collaborations in his research fields. He has made great contributions to the wide area of researches and developments in plasma physics and technology. He has been one of most important key persons for the international research projects as well as the domestic projects in nuclear fusion plasma researches.

I want to express our sincere acknowledges to his thorough contributions and superior activities and strong leadership in our research institute.

September 2015

Yuji Ohya
Director
Research Institute for Applied Mechanics