

Japanese contributors to the CMC field

Teruo Kishi, Professor Emeritus, The University of Tokyo



Prof. Emeritus, Teruo Kishi has made pioneering contributions to the fundamental research and development of Ceramic Matrix Composites, including material design, interface control, improvement of thermal resistance, elucidation of fracture behavior, and establishment of technologies for enhancing durability and reliability.

Furthermore, he has made outstanding contributions to Japan's advanced materials development through his leadership in providing policy recommendations to the government and industry, supporting the formulation of strategic materials policies, and strengthening the nation's industrial technology infrastructure.

Hiroshi Ichikawa, Nippon Carbon Co., Ltd. (retired)



Dr. Hiroshi Ichikawa has made outstanding contributions to the field of Ceramic Matrix Composites (CMC) through his pioneering research on the design and development of advanced silicon carbide fibers, interface engineering using optimized fiber coatings, and the integrated design of materials at Nippon Carbon.

He has played a key role in bridging research and industry by promoting the commercialization of CMC fiber technologies and advancing scale-up and manufacturing process development. He is well known as "Mr. Nicalon." Without this fine-diameter SiC fibers, the development and practical applications of CMC would not have realized.

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Taketami Yamamura, Ultra-High Temperature Materials Research Center (retired)



Dr. Taketami Yamamura, had led the development of SiC fibers, “Tyrano Fiber” at Ube Industries Ltd., and made a significant contribution to the development of ceramic composite materials that exhibit today's excellent properties. Also, he had made significant contributions to the advancement of ceramic matrix composites and related ultra-high-temperature ceramic materials in Japan as the founding President of Ultra-High Temperature Materials Research Center. Furthermore, he contributed to the formulation of national materials strategies and research policies, and dedicated himself to mentoring the next generation of materials researchers.