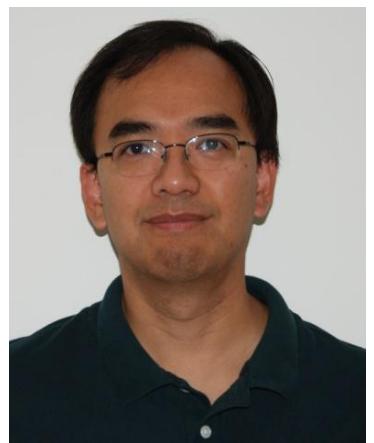# Asian American Engineer of the Year

Chung-Lung Kevin Shum

Senior Technical Staff Member
IBM Corp

Citation of Accomplishment:

Sustained leadership and innovation in commercial high performance microprocessor microarchitecture and cache subsystems.

Chung-Lung Kevin Shum is a Senior Technical Staff Member in IBM Poughkeepsie's System and Technology Group. Kevin was born in Hong Kong and grew up there until entering college. He received his B.S. degree in electrical engineering from Columbia University, New York in 1987 with distinction, and then his M.S. degree in electrical engineering from the same school in 1988.

He has been with IBM since graduation, working in the development of various IBM System z's microprocessors. From 1988 till 1997, he worked on different functional units inside the processor team assuming various duties in parallel from logic to timing to physical design and verification. Later, from 1997 to 2002, Kevin became the lead architect and design lead for processor cache units on IBM's z900 and z990 processors. After 2002, Kevin became the chief processor architect and was the design lead for the System z10 processor core.

Through the various projects, he was instrumental in driving the processor design forward with many of his innovations. Kevin holds over 30 patents and has been an IBM Master Inventor since 2009. He has many more patents filed and in pending state, and even more patents in the pipeline to be filed. He is well known to all who worked with him to be very approachable and knowledgeable.

Kevin is a proactive mentor. He works closely with new designers and coaches them along on both technical and career aspects of their jobs. His mentees include designers both in the IBM Poughkeepsie lab as well as oversea in the IBM Germany lab. Externally, he is also active in participating engineering week activities by visiting local elementary schools to promote interests in Science and Engineering as well as technical judging in local schools.