

Keynote Speaker

Tuesday, 29th July, 2025, 8:00-8:30pm

Dr. Xiaodong Che
Western Digital
Chief Technology Officer



Dr. Xiaodong (Carl) Che is a widely respected leader in the data storage industry, known for his pioneering contributions to magnetic recording technologies and his commitment to advancing innovation at scale. As Senior Vice President and Chief Technology Officer at Western Digital, Dr. Che has played a key role in shaping the industry's technological direction, driving the development and deployment of storage breakthroughs such as PRML channel, PMR, Ultra-SMR and energy-assisted recording technologies.

With over three decades of experience, Dr. Che has led global engineering organizations, deepened industry-academic collaboration, and helped establish strategic technology roadmaps that have influenced the broader ecosystem. He holds more than 50 patents and has authored over 30 technical publications in the field of data storage.

Throughout his career, Dr. Che has fostered innovation through both technical achievement and organizational leadership—mentoring global teams and building frameworks that support sustainable technology development. His cross-sector collaborations with leading universities and research institutes have catalyzed advances in magnetics, AI/ML-enabled storage, and next-generation device architectures.

Dr. Che earned his Ph.D. in condensed matter physics from the University of California, San Diego, and his B.S. in physics from Fudan University. He is a Senior Member of IEEE and a founding board member of the Chinese American Information Storage Society (CAISS).