

Exploring Innovative Cooling Solutions for IBM's Super Computing Systems: A Collaborative Trail Blazing Experience

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This talk presents a practitioner's personal recount on how collaborative innovation can be achieved to create innovative cooling solutions for high performance computing systems. It draws on my 50 years of experience, working for IBM since 1960. The emphasis is on learning from other's by understanding the underpinnings of their innovative ideas. It is then necessary to apply what you have learned using your imagination. During the talk, 6 milestone achievements in cooling system innovation will be presented to illustrate the process of collaborative innovation to meet the ever increasing cooling requirements for IBM super computing systems. Also included will be a summary of IBM's experience of sponsoring basic research at 12 Universities in exploring innovative cooling technology for future applications. Finally, I will conclude my talk by sharing my personal process for innovation by outlining 6 rules of creativity. (A 45 minute presentation with 40 charts)