Karey L. Holland, Ph.D.
Founding Partner
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Karey L. Holland, Ph.D. is a founding partner in Techcet Group, a semiconductor materials consulting company, specializing in semiconductor, integrated circuit and solar materials. She has over 25 years of semiconductor IC experience and is regarded as one of the top CMP technical experts in the world. Dr. Holland focuses on CMP materials (pads, slurries, etc.), advanced dielectrics and conductors, interconnect technology and lithography as used in semiconductor development and manufacturing. Previously, Dr. Holland served as CTO of start-up NexPlanar, on the Board of Directors at Nova Measuring Instruments and as Vice President of Technology at Thomas West Inc., a CMP pad supplier to the electronics industry. She has held the positions of CTO and VP of process technology at the market leading CMP equipment supplier IPEC and later SpeedFam-IPEC. Before IPEC, Dr. Holland was Manager of Manufacturing Planning for Motorola's Microprocessor and Memory Technology Group. Dr. Holland's career in microelectronics began at IBM from 1981 through 1993 where she held several positions including DUV lithography technology development manager (including equipment, metrology, and photolith materials), and she contributed to integration of the interconnect technology development and manufacturing introduction of 4 Meg and 16 Meg DRAMs. The IBM 4 and 16 Meg DRAMs were the first chips in the world to use fully CMP planarized interlevel dielectrics and tungsten plug technology. Dr. Holland holds a Ph.D. in analytical chemistry from The Pennsylvania State University, a M.S. in analytical chemistry from Purdue University, and a B.A. in chemistry from Albion College.

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