David T. Chapman

Professional Summary

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Professional Preparation

Academic Background

M.B.A. Business Strategy and Marketing, Kenan-Flagler Business School, UNC-Chapel Hill, August 2005

B.S. Materials Science and Engineering, North Carolina State University, Raleigh,

M.S. Materials Science and Engineering, North Carolina State University, Raleigh,

Master's Certificate Project Management, George Washington University, Washington, D.C.,

Professional Appointments

Present Position: AEC Project Manager, Bureau of Economic Geology, The University of Texas at Austin (January 2009 - Present). Research project manager for the Advanced Energy Consortium (AEC) within UT's Bureau of Economic Geology. AEC is $30M, 3-year, oil and gas industry nanotechnology research consortium, administered by BEG.

Business Development Manager, SEMATECH'S ATDF (May 2006 - January 2009). Sales cycle manager (qualification, statement of work, pricing, contracting, and transfer to operations) for projects up to $2M per year. Closed $3.4M of annual business in 5 months. Responsible for MEMS business growth strategy and market segment. Business plan reviewer for $200M Texas Emerging Technology Fund. Program developer in nanoparticle-based flash memory, nanochannels for protein sorting, and microfluidics for gene therapy of cancer.

Staff Research Engineer, RTI International (January 2001 - August 2006). Go-to-market strategy developer for MEMS microvalve that enabled an established traditional player to enter an existing market with a disruptive technology, without compromising existing channel sales relationships or brand value. Researcher and developer of medical, optical, and mechanical microelectro mechanical systems (MEMS), including gas microvalves, microfluidic systems, flexible electrostatic shutters, pMUT ultrasound transducers, and IR emitter displays.

Interim Director, College of Technology, Motorola University (September 1999 - January 2001). E-learning strategy developer for semiconductor products sector worldwide engineering education. Program manager management of internal engineering education for Motorola University. Curriculum developer for new-hire process, device, test, and package design engineers.

Staff Process Engineer, Motorola MOS13 (February 1998 - September 1999). Fab startup, technology transfer, QS9000, and production ramps. Chemical mechanical polishing, wet clean/etch, diffusion, and yield enhancement.

Thermal Program Manager, Intel Process Equipment Development (May 1997 - February 1998). Rapid thermal processing process equipment development (PED) program manager. Management of software, hardware, and process continuous improvement programs at AMAT

and AG for Intel; 300-mm RTP equipment selection team member.

Senior Process Engineer, Motorola MOS13 and MOS2 (June 1993 - May 1997). Manufacturing process engineer for high-volume die manufacturing of 100- and 200-mm Si CMOS down to 0.25-uM CDs. Direct experience in diffusion, wet etch and clean, oxide quality, rapid thermal processing, chemical mechanical processing, photolithography, and contamination monitoring.

Areas of Expertise

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Business strategy

Creative leadership

MEMS

Nano and biotech

Photovoltaics

Project, contract, and supplier management

Semiconductors

Technology research and development

Publications

Peer Reviewed Journal Articles

Beskardes, G. D., McAliley, W. A., Ahmadian, M., Chapman, D. T., Weiss, C. J., and Heath, J. E., 2019, Power density distribution in subsurface fractures due to an energized steel well-casing source: Journal of Environmental and Engineering Geophysics, v. 24, no. 2, p. 285-297, http://doi.org/10.2113/JEEG24.2.285.

Non Peer Reviewed Journal Articles

Ahmadian, M., Chapman, D., Nelson-Thomas, C., Kipper, J. P., and Tinker, S. W., 2016, Nanotechnology solutions for the oil and gas industry: SPE: The Way Ahead, https://www.spe.org/en/twa/twa-article-detail/?art=683.

Ahmadian, M., Chapman, D., Murphy, S. C., Kipper, J. P., and Tinker, S. W., 2014, The Advanced Energy Consortium: an international team of interdisciplinary researchers developing a portfolio of nano-technologies for the oil and gas industry: Brazilian Petroleum, Gas and Biofuels Institute (IBP), no. IBP2274_14, 11 p.