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APPENDIX (SPEAKER BIOS)

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Dundar F. Kocaoglu, Ph.D.

Dr. Dundar Kocaoglu is Professor and Chairman of the Engineering and Technology Management Department at Portland State University, and President and CEO of PICMET (Portland International Conference on Management of Engineering and Technology). His research areas include technology management, project management, R&D management, decision theory, hierarchical decision modeling, evaluation and selection of emerging technologies, and resource optimization. He has received more than one million dollars in research grants and contracts from government agencies and industrial corporations. Dr. Kocaoglu has supervised more than 300 Master's students, and supervised or participated in the doctoral committees of more than 30 Ph.D students since 1980.

Dr. Kocaoglu received his B.S. in Civil Engineering from Robert College in 1960, M.S. in Structural Engineering from Lehigh University in 1962, M.S. in Industrial Engineering from the University of Pittsburgh in 1972, and Ph.D. in Operations Research and Systems Management, also from the University of Pittsburgh, in 1976. He joined Portland State University to start the Engineering Management Program in 1987. The program has since become the Department of Engineering and Technology Management. It now has about 180 students working toward the M.S. and Ph.D. degrees. Prior to 1987, Dr. Kocaoglu was the director of a similar program for 11 years at the University of Pittsburgh.

Dr. Kocaoglu has worked in industry as an engineer and project manager from 1962 to 1971. He has been a consultant on engineering and technology management since 1973. His clients include Westinghouse, Brown Boveri, IBM, Intel Corporation, Tektronix, II-Morrow, Cascade Microtech, several other small- to medium-sized technology-based companies, more than 10 universities, R&D Centers and the United Nations. He has served in National Research Council committees for the evaluation of the NIST (National Institute of Science and Technology) manufacturing centers, and for the improvement of U.S. Department of Energy decision making processes for nuclear waste disposal and decommissioning. He has also been an NSF (National Science Foundation) reviewer for research proposals, and served on NSF panels for the evaluation of research centers.

Dr. Kocaoglu has published over 40 articles, delivered more than 20 keynote speeches and presented more than 100 papers on engineering and technology management in international conferences. He is the author, editor or co-editor of eight books: *Engineering Management* (Mc-Graw-Hill, 1981), *Technology Management: The New International Language* (IEEE, 1991), *Management of R&D and Engineering* (Elsevier, 1992), *Innovation in Technology Management* (PICMET, 1997), *Technology and Innovation Management* (PICMET, 1999), *Technology Management in the Knowledge Era* (PICMET, 2001) and *Technology Management for Reshaping the World* (PICMET, 2003), *Technology Management: A Unifying Discipline fore Melting the Boundaries* (PICMET, 2005). He was the Editor-in-chief of *IEEE Transactions on Engineering Management*, 1986 – 2002), and the Series Editor of *John Wiley Book Series in Engineering & Technology Management* (1985 – 1998). Dr. Kocaoglu is the recipient of the Distinguished Research Mentor Award of the National Science Council of Taiwan, the IEEE Fellow Award, IEEE Centennial Medal, and IEEE Millenium Medal, all of which were awarded for "leadership in the development of the Engineering Management discipline". He is listed in *Who Is Who In The World*, *Who Is Who In America*, *Who Is Who In Education*, *Who Is Who in Engineering*, *American Men and Women in Science* and more than a dozen other reference publications.

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Frederick Betz, Ph.D.

Dr. Frederick Betz received the B.S. in physics from the University of Chicago and Ph.D. in physics from the University of California at Berkeley. From 1975-98 he was Program Manager of the Engineering Directorate at the National Science Foundation, where he administered grants in the Engineering Research Centers Program, Industry/University Research Centers Program, and Engineering Education Coalition Program.

Dr. Betz was a professor in the Graduate School of the Department of Management of Technological Systems at the University of Maryland University College from 1998-2004. Since 2005 he has been a general partner in Venture2Reality, a company that brings sophisticated large company market intelligence aggregation tools to small and mid-sized manufacturing companies in search of new products, markets and partners

His books include *Managing Technology* (New Jersey: Prentice Hall, 1987); *University/Industry Partnership for Economic Development* (San Francisco: Jossey-Bass, 1988) (co-authored); *Strategic Technology Management* (New York: McGraw-Hill, 1993) (also published in Chinese (1997) and Japanese (2005) language editions); *Managing Technological Innovation* (John Wiley & Sons, 1st edition 1998, 2nd edition 2003); and *Executive Strategy*, (John Wiley & Sons, 2001).

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Robert R. Harmon, Ph.D.

Dr. Robert Harmon is Professor of Marketing and Technology Management at Portland State University, where he teaches technology marketing and product development courses in the Engineering and Technology Management and MBA programs. He served three terms as Chairman of the Marketing Department. He earned a Ph.D. in Marketing, Information Systems, and Psychology from Arizona State University. He has MBA and BS degrees from California State University, Long Beach in Finance and Accounting. Previous faculty affiliations include positions at the American Graduate School of International Management (Thunderbird), Arizona State University, Oregon Health Sciences University, and the University of Oregon Executive MBA Program. Dr. Harmon is a recipient of the Oregon State Legislature's Faculty Excellence Award and the Earl Wantland Teaching Excellence Award at Portland State University. He was an American Marketing Association Doctoral Consortium Fellow at the Wharton School of the University of Pennsylvania.

Dr. Harmon has over 20 years experience as a technology-marketing consultant working with clients in the software, computer hardware, semiconductor, flat panel display, and medical industries. Dr. Harmon was a financial analyst in the pharmaceuticals industry, director of marketing for a water systems company, and the senior marketing member for software startups in the IT portfolio management and the wireless payment systems markets. He continues to work as an advisor to several software and other startups. Dr. Harmon is a member of the Maseeh College of Engineering and Computer Science Advisory Board at Portland State University.

Professor Harmon has over 60 publications on marketing research and strategy that include articles in *Technological Forecasting and Social Change*, *Journal of Marketing Research*, *Journal of Marketing*, *Journal of Advertising*, *Journal of Advertising Research*, *Business and Society*, and *Decision Sciences*. He recently completed a National Science Foundation funded project on value-based software engineering and a privately funded project focused on incorporating ecological design factors into the R&D process for semiconductor capital equipment firms. His research interests are technology marketing, value-based product development and dynamic growth strategies for high-technology firms.

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Dr. Tugrul U. Daim is an Associate Professor in the Department of Engineering and Technology Management at Portland State University (PSU). He received his B.S. degree in Mechanical Engineering from Bogazici University in Turkey, the master's degree in Mechanical Engineering from Lehigh University in Pennsylvania, the master's degree in Engineering Management, and Ph.D. in Systems Science/ Engineering Management at Portland State University (PSU). Dr. Daim's research has focused on technology assessment, forecasting, development and transfer. He has analyzed the technology evaluation and acquisition practices in the US electronics manufacturing industry. He is the co-chair of the program committee for the Portland International Center for Management of Engineering and Technology (PICMET) and an editorial board member of *IEEE's Transactions on Engineering Management and Technology Forecasting and Social Change*. Prior to joining PSU, Dr. Daim was Divisional Processor Development Manager at Intel Corporation, where he worked for 10 years managing technology planning and product development.

Dr. Daim is co-author of *Technology Management In The Knowledge Era, Technology Management Reshaping the World* and *Technology Management: A Unifying Discipline for Melting the Boundaries* by IEEE Press and listed in Marquis *Who's Who in America* and *Who's Who in Science and Engineering*.

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Antonie Jetter, Ph.D.

Dr. Antonie Jetter is an Assistant Professor in the Department of Engineering and Technology Management at Portland State University (PSU). Dr. Jetter holds a "Diplom" graduate degree in Business Administration and a doctorate in Technology and Innovation Management from RWTH Aachen University, Germany.

Prior to joining the ETM Department in 2005, Dr. Jetter was employed at RWTH, where she was involved in various interdisciplinary research projects. Among others, she was responsible for an international project on Knowledge Management in small and medium enterprises that was funded by the European Commission. Dr. Jetter's research interests are new product development, human resource issues in technology organizations and organizational learning.

Dr. Jetter has a total of 7 years of industry experience with Siemens and a high-tech start-up company.

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Charles Weber, Ph.D.

Dr. Charles Weber holds an A.A. degree in Physical Science from the American College of Switzerland; a B.S. degree in Engineering Physics from the University of Colorado, Boulder; an M.S. degree in Electrical Engineering and Computer Science from the University of California, Davis; an S.M. degree in Management of Technology from the Massachusetts Institute of Technology (MIT); and a Ph.D. in management from MIT's Sloan School.

Dr. Weber has 15 years of experience in the semiconductor industry, working at Hewlett-Packard (HP) Company. He started as a process engineer in an IC manufacturing facility. He subsequently transferred to HP's IC process development center, working in electron beam lithography, parametric testing, microelectronic test structures, photomask design, clean room layout and yield management. From 1996 to 1998 Dr. Weber managed the defect detection project at SEMATECH, as an HP assignee. In 1997 and 1998 he worked on HP's "Growth Project," an effort to analyze best strategic practices of very large firms. From 1999 to 2002, he consulted to venture capitalists and high technology start-up firms.

In 2002, Dr. Weber joined the Department of Engineering and Technology Management at Portland State University (PSU) as an assistant professor. At PSU he teaches courses in innovation, entrepreneurship, new product development, strategic management of technology and knowledge management. Dr. Weber's research interests are in organizational learning, problem solving, knowledge management, innovation and entrepreneurship. Charles has published three articles on these subjects in IEEE's *Transactions on Semiconductor Manufacturing* since he joined PSU. In 2003, his Ph.D. thesis titled "Rapid Learning in High Velocity Environments" was awarded runner up for the Best Dissertation Award in Technology Management of the Institute for Operations Research and Management Science (INFORMS).

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Joseph Martino, Ph.D.

Dr. Joseph P. Martino earned degrees in physics (A.B., Miami University), Electrical Engineering (M.S., Purdue University), and Mathematics (Ph.D., Ohio State University). He then joined the U.S. Air Force, where he served for 22 years, retiring as a full Colonel in the early 1970s.

After leaving the Air Force, Dr. Martino was a Senior Research Scientist at the University of Dayton Research Institute (1975-1993). He also created and taught graduate-level courses in Technological Forecasting and Technology Assessment in the School of Engineering - courses that covered technological forecasting (its application to R&D planning, business, and government) and methods of anticipating the social, economic, and environmental consequences of new technology.

Dr. Martino is the author of numerous articles and books on technology forecasting and R&D project selection. His book *Technological Forecasting for Decision Making*, now in its 3rd edition, has recently been translated into Chinese. He has been an Associate Editor of the journal *Technological Forecasting and Social Change* since its founding in 1969.

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Dr. Timothy R. Anderson is an Associate Professor of Engineering and Technology Management at Portland State University. He was educated at the Georgia Institute of Technology and received the degrees of M.S.I.E. and Ph.D.I.E. after receiving his B.E.E. from the University of Minnesota. He has worked for and consulted with a variety of companies including Honeywell, Oki Electric, Menlo Logistics, and the U.S. Postal Service. He is currently Program Chair for PICMET '06 and the Director of Technical Activities for the Portland International Center for Management of Engineering and Technology. Prior to this, he served as Program Co-Chair for PICMET '97 and Program Chair for PICMET '99, '01, '03, '04, and '05. His current research interests are productivity analysis, operations research, service engineering, technology forecasting, and new product development. Recent journal articles have been published in the *IEEE Transactions on Engineering Management*, *Technological Forecasting and Social Change*, and the *Journal of Productivity Analysis*.

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