

Preface

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Editor

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"Women in Technology at Intel" is the theme of the Q3, 2001 Intel Technology Journal. Key women engineers and researchers at Intel have contributed papers to this issue. Technology in itself is a neutral tool and carries no particular gender bias, and in fact, perhaps the computer, and the Net as its main form of communication, could be described as the ideal gender-neutral environment. At Intel, one out of every five women is in a technical job, and for younger engineers the ratios are higher. In this issue we feature a few of the many women of science and technology at Intel Corp. These women have demonstrated ability and vision, and their papers showcase the breadth of their influence.

The first paper merges technology with anthropology. It describes ethnographic research undertaken in Western Europe to try to determine how people in Western Europe occupy their domestic spaces, what technologies are present in those spaces, and how they are used. The second paper looks at indoor wireless communications and proposes a strategy to deal with two of the main challenges in the use of unlicensed frequency bands: coexisting with other users and extracting the greatest capacity from systems that are both power- and band-limited. The third paper looks at the evolution of automation in microprocessor process development and manufacturing at Intel. And, the fourth paper discusses how the compiler for the Intel[®] Itanium[™] processor was designed and developed in the absence of hardware. It tells how the project was started more than five years before the existence of system hardware, and it describes the role of simulators in developing the compiler.