

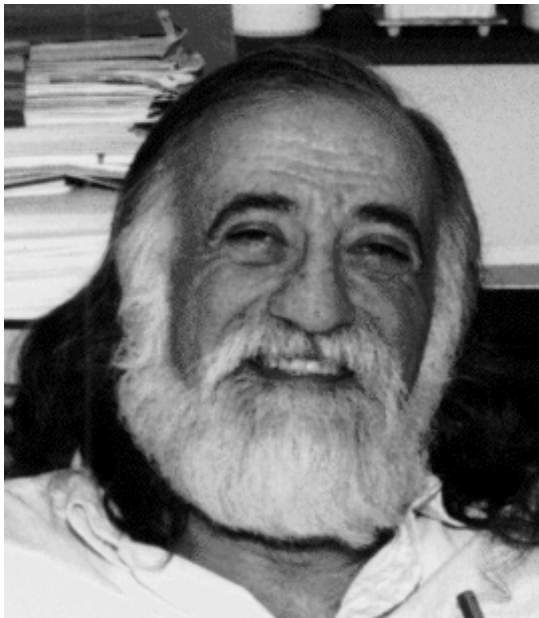
DISTINGUISHED LECTURE**Thursday, October 15**

Scaife Hall Auditorium

Room 125

4:30 p.m.

Refreshments at 4:00 p.m.

**Professor Yale N. Patt**

Electrical & Computer Engineering and Ernest
Cockrell Jr. Centennial Chair in Engineering
University of Texas at Austin

Yale Patt is a teacher at The University of Texas at Austin, where he also directs the research of nine PhD students, while enjoying an active consulting practice with several microprocessor manufacturers. He regularly teaches the required Introduction to Computing course to more than 400+ freshmen and his advanced graduate course in Micro-architecture to those planning careers as cutting-edge computer architects. He holds the Ernest Cockrell, Jr. Centennial Chair in Engineering and is Professor of Electrical and Computer Engineering. Some of his research ideas have ended up on the cutting-edge chips of Intel, AMD, etc. and some of his teaching ideas have resulted in his motivated bottom-up approach for introducing computing to freshmen. He has received many of the highest honors in the field for both his research and teaching, but none so great as the fact that two of his students are members of the CMU regular faculty.

More details are available on his website:
<http://www.ece.utexas.edu/~patt/>

**Future Microprocessors:
Multi-core, Multi-
nonsense, and What We
Must Do Differently
Moving Forward**

Now that we have broken the threshold of one billion transistors on a chip and multi-core has become a reality, a lot of buzz has resulted – from how/why we got here, to what is important, to how we should determine how to effectively use multi-core. In this talk, I will examine a number of these new "conventional wisdom" nuggets of information to try to see whether they add value or get in the way. For example: what can we expect multi-core to do about saving power consumption? Is ILP dead? Should sample benchmarks drive future designs? Is hardware sequential? Should multi-core structures be simple? Is abstraction a fundamental good? Hopefully, our examinations will help shed some light on where we go from here.

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