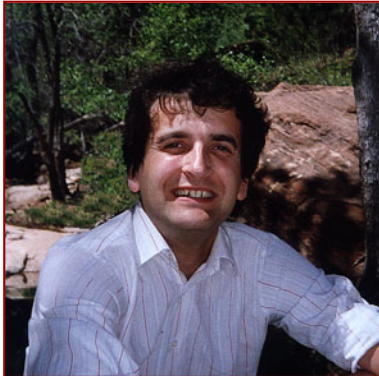


THURSDAY
FEBRUARY 12, 2004

Scaife Hall Auditorium
Room 125

4:00 PM
Refreshments—3:30 PM



A. F. J. Levi

UNIVERSITY OF SOUTHERN CALIFORNIA

Professor Levi received his PhD in physics from Cambridge University in 1983. He joined the USC faculty in mid-1993 after working for 10 years at AT&T Bell Laboratories, Murray Hill, New Jersey. He invented hot electron spectroscopy, the microdisk laser, and carried out pioneering work on parallel fiber-optic interconnect components in computer and switching systems.

His current research interests include the scaling of ultra-fast electronic and photonic devices, and the system-level integration of advanced optoelectronic technologies, manufacturing at the nanoscale, and the subject of Adaptive Quantum Design. To date he has published over 200 scientific papers, several book chapters, is author of the book 'Applied Quantum Mechanics', and holds 12 U.S. patents.

For additional information, visit
<http://www.usc.edu/alevi>.

For more information:
<http://www.ece.cmu.edu/seminar/index.php>

Elias Towe, ECE Seminar Host
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CHALLENGES FOR PHOTONICS IN FUTURE SYSTEMS

The aftermath of the telecommunications bubble suggests one should rethink the role of photonics in systems.

This talk will discuss some of the ideas we have been working on, including new methods to manufacture components, new opportunities to insert photonics into systems, and new software to “discover” better device designs.