Speaker Profile

Name	a James S. Harris
Title	Professor
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Contact DetailsJamesOrganization Name: Stanford UniversityJames Engin respect Profes and M Electric Direct In Center on III contril hetero positionAddress:Phone: 650-723-9775Center on III contril hetero position Optoe Solid of Electric component Huiltra-st and free epitax nanoli artifici three metro optoel chip, densit numer Intern GaAs Epitax U.S. Confe Confe Confe Lightw Journa Solar 2000 device Ensite	ute Stanford University s S. Harris received B.S., M.S. and Ph.D. degrees in Electrical eering from Stanford University in 1964, 1965 and 1969, totively. He is currently the James and Ellenor Chesebrough sor of Electrical Engineering and Professor of Applied Physics laterials Science. He served as Director of the Joint Services or of the Solid State Electronics Laboratory from 1984-1998. 1969, Dr. Harris joined the Rockwell International Science r in Thousand Oaks, CA where he initiated much of their work -V compound semiconductors. He was one of the key putors in developing ion implantation in GaAs, MBE and ojunction device technologies, leading to Rockwell's preeminent on in GaAs device technology. He was the Director of the lectronics Research Department. In 1982, Dr. Harris joined the State Electronics Laboratory, Stanford University, as Professor retrical Engineering to establish a program in MBE growth of sound semiconductor materials and novel heterojunction devices. is current research interests are in the physics and application of small structures to new electronic and optoelectronic devices ingh-speed integrated circuits based upon molecular beam ial (MBE) crystal growth combined with a variety of thography approaches to produce lateral patterning for 3-D, ally structured materials. His major research focus is now in areas: 1) novel optoelectronic devices for low cost, high speed area fiber networks and Si IC optical interconnects, 2) lectronic devices for biochemical and biomedical analysis on a and 3) electron spin based devices for ultra low-power, high y electronics and quantum computing. He has served on rous organizing and program committees for the IEEE IEDM, ational Conference on Compound Semiconductors (formerly and Related Compounds), International Molecular Beam Epitaxy rences and the Advanced Heterostructure Transistor rence. He is an Associate Editor for the IEEE Journal of vave Technology and has served as Divisional Editor of the lEEE Morris N. Liebma