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IEEE METRO LA METRO SECTION PRESENTS A FREE EVENT

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FRIDAY, FEBRUARY 22, 2013. THE MEETING STARTS AT 11:00 AM WITH LUNCH & ENDS AT 1:00 PM



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Chapters:

PES, MTT, GRSS, IAS

COMPUTER (Pending approval)

Student Liaison
Jacky Wong, P.E.

Student Branches
CSULA, USC, CALTECH

Membership Development and Student
Liaison chairs continue reaching out to:

Occidental and the city colleges in
METRO area:

East LA, Glendale, Los Angeles City,
Pasadena and Los Angeles Trade
Colleges

Contact e.miranda@ieee.org for
questions on IEEE local or international

TOPIC: Flash Memory

LOCATION: SCE Headquarters: 2244 Walnut Grove Ave, Rosemead, CA 91770.
Check in with Security for the Room location.

DATE & TIME: February 22, 2013. The meeting starts at 11:00 AM with lunch

RESERVATION: Please RSVP to charles.cai@sce.com by 2-18. Please include your membership number. If you are not a member and wish to be, please go to www.ieee.org/join. You do not need to be an engineer to join. Questions? Please contact e.miranda@ieee.org.

ABOUT THE SPEAKER:

Dr. Xudong (Simon) Ma received his B.S. in Engineering from Shenyang University of Technology People Republic (PR), China. He also received a M.A.Sc. in Systems Design Engineering and a Ph.D. in Electrical and Computer Engineering from the University of Waterloo, Ontario Canada".

He started his career as a software engineer in 1994 at Fushun Economic Information Center, Fushun, Liaoning at the P.R. China. He has completed several projects and developed several software related to this technology both in China and in Canada.

Dr. Ma will share his vast knowledge of the Flash Memory business gathered in the industry/academia and will discuss his strategic views on the rapid progress in information and communication technologies. Dr. Ma, an IEEE member since 2001, is currently a visiting Scientist at Cedars-Sinai Medical Center here in Los Angeles

ABOUT FLASH MEMORY:

Flash memories are a new type of nonvolatile computer memory. They have the advantages of high reading speed, low power consumption, light weight, high shock resistance, etc. Because of these advantages, the flash memories have already found applications in data centers, data warehouses, mobile devices, and personal computers.

The presentation will first review the existing types of flash memories, their structures, principles, and advantages. We will proceed to discuss the various applications of flash memories and their advantages over other existing computer memory technologies. Several design issues of flash memories will then be discussed, including wear-leveling, limited erase cycles, data retention, and endurance. Finally, the technologies for alleviating these issues will be discussed.



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