SEMINAR

Seminar 29 Sunday June 17, 2001

THE COMING POWER CRISIS-CHALLENGES & OPPORTUNITIES

9:00am – 6:00pm

Ted Hollinger, Ford, John Mungenast, Silicon Seniors International, USA

ABOUT THE INSTRUCTORS

Hollinger & Mungenast have over 80 years combined experience in power electronics design and marketing. Hollinger worked with Bob Noyce at Fairchild, designed devices at Siliconix and founded Advanced Power Technologies. He is now Director of Power Electronics at Ford Ecostar and has done extensive research in motor drive and module design. Mungenast was with the GE SCR team in 1956 and introduced the light activated SCR and solid state motor starter. Other projects included the first small UPS and surge protector in 1959. He cofounded Power Semiconductors Inc.in 1968 and Power Quality Magazine & Conference in 1989. He now consults for clients worldwide.

CONTENTS

The California Power Crisis is threatening the world's seventh largest economy. For our new internet economy demands extraordinary power quality, as does automated production and distribution. Our problems surprise many Asian and European exporters who do not expect such problems in America.

Power electronics systems are both victimes and remedy. Motor drives and programmable load controllers (PLC's) are vulnerable and require special protection.

But power electronics also help solve the problems as UPS's, active filters and medium voltage dynamic voltage restorers and VAR compensators. Such applications are now a lucrative opportunity as premium power quality systems, generators and batteries are in great demand.

Also many alternate energy systems call for inverters, both low cost and extremely reliable under harsh loads and environments. Such inverters are used in microturbines, fuel cells, wind and solar as well as battery storage systems. Borrowing from automotive electronic technology has been most helpful.

Other discussion will center on the ultra reliability needs (99.99999% availability) of the "Cisco Hotels", the web hosting sites consuming 10 to 30 megawatts for power and cooling of servers and routers.

Special discussions will center on designing reliable power electronic circuits in times of component shortages and with inexperienced personnel. Conservation devices are receiving new attention during this energy shortage.

We will also discuss career and business opportunities in this challenging field, as well as attracting more students into power electronics careers.

WHO SHOULD ATTEND

This is an unprecedented opportunity for high quality European and Asian firms to sell over to the USA and we will help explain the special political and logistical challenges.