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Monterey, CA; Naval Postgraduate School

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NAVAL POSTGRADUATE SCHOOL
Monterey, California 93943

TECHNOLOGY REVIEW AND UPDATE FOR TECHNICAL PERSONNEL

APRIL 21-25, 1997



Monterey, Calif.

GENERAL INFORMATION

RESPONSE: Please return the attached registration form and fee of \$550.00 no later than April 8, 1996 to:
Space Systems Academic Group
Naval Postgraduate School
777 Dyer Road, Rm 200
Monterey, CA 93943-5110

Early response is advised since the number of participants is limited. Applications will be acknowledged.

PAYMENT: Payment to be made by check (U.S. dollars) made payable to the "Treasurer of the United States."

REFUNDS: Notification of cancellation must be received by NPS no later than one week before the course starts. Registrants who cancel beyond this date or fail to attend are subject to forfeiture of the entire fee. Substitutions are permitted.

CANCELLATION: NPS reserves the right to cancel any short course due to insufficient registrations or any situation beyond its control. Participants will be notified immediately by mail and a full refund will be issued. NPS will not be responsible for expenses incurred because of course cancellation.

ACCOMMODATIONS: Rooms have been reserved at the Hyatt Regency Monterey, 1 Old Golf Course Road, Monterey, CA 93940 (walking distance to NPS). The rate for U.S. Government employees is \$99.00 (single) and \$149.00 (double). Reservations must be made by calling the hotel directly at (408) 372-1234 referring to the group name (Technology Review and Update). After March 20, rooms and government rates will be available on a first come first serve basis only.

ORDERS: All participants on orders will receive a C Q stamp upon arrival. All orders will be collected by the class leader and dropped at the Bachelor Officer Quarters (BOQ) front desk for verification. Do not contact the B O Q for a Certificate of Non-Availability (CNA) number; under the C Q rate, CNA does not apply.

TRANSPORTATION: The Monterey Airport is served by several airlines from Los Angeles and San Francisco and is located two miles east of the NPS campus. The San Francisco International Airport is a two-hour drive from Monterey (without traffic).

PARKING: Due to ongoing construction work, the only parking available on campus is for the handicapped.

FURTHER INFORMATION: On course content, contact: Prof. R. Panholzer, 408-656-2154 or DSN 878-2154; on registration, contact the Space Systems Academic Group office 408-656-2948 or DSN 878-2948.

WWW: <http://www.sp.nps.navy.mil>

DEPARTMENT OF THE NAVY
NAVAL POSTGRADUATE SCHOOL
SPACE SYSTEMS ACADEMIC GROUP
CODE SP
MONTEREY, CALIFORNIA 93943-5110

OFFICIAL BUSINESS
PENALTY FOR PRIVATE USE \$300

COURSE OBJECTIVE

This course is intended for military and civilian technical personnel who are interested in refreshing and updating their knowledge in the areas which are listed in the course outline below. Each participant in this course is expected to be involved in work in at least one of these areas. The course provides an excellent overview and stresses the more practical aspects of the topics listed.

COURSE OUTLINE

MONDAY, A.M.

MODERN RADAR SYSTEMS

Professors Gurnam Gill and David Jenn, Department of Electrical and Computer Engineering, Naval Postgraduate School, Monterey, CA 93943

- Basics of Radar
- Important Military Radar Systems
- Modern Radar Antennas
- Recent Advances in Radar Technology

MONDAY, P.M.

ROLE OF INFORMATION WAREFARE

Prof. John Arquilla, National Securities Affairs Dept., Prof. Cynthia Irvine, Computer Science Dept., Prof. David Jenn, Department of Electrical and Computer Engineering Naval Postgraduate School, Monterey, CA 93943

- IW Principles, Threats, and Consequences
- Deception and Psychological Operation
- Computer Security
- Role of EW in Information Warfare

TUESDAY, A.M.

MICROSENSORS AND MICROACTUATORS

Prof. Richard M. White, Electrical Engineering & Computer Science Dept., UC Berkeley, Co-Director of Berkeley Sensor and Actuator Center, Berkeley, CA 94720

- Introduction: Sensors Applications
- Physical Principles Used for Sensing
- Processing Silicon for Use in Microsensors and Microactuators
- Design and Performance of Microsensors and Microactuators

TUESDAY, P.M.

OPTICAL SENSING TECHNOLOGY

James Lenz, Section Head, Sensor Systems, Honeywell Technology Center, Honeywell Inc., Minneapolis, MN 55443

- Overview
- Fiberoptic Technology Relevant to Sensors
- State of the Art of Fiberoptic Sensors
- Case Studies of Fiberoptic Sensors

WEDNESDAY, A.M.

SOFTWARE ENGINEERING DEVELOPMENTS

Prof. Timothy Shimeall, Computer Science Dept., NPS, Monterey, CA 93943

- Software Engineering Environments
- Software Development Tools for Personal Computers
- Application Software for Personal Computers
- Advanced Development of General Software

WEDNESDAY, P.M.

TOUR OF SELECTED NPS LABORATORIES

The following laboratory tours are set up for interested course participants

- Space Systems Laboratories
- Radar and EW Laboratories
- Virtual Reality and CAPS Laboratories

THURSDAY, A.M.

LINEAR INTEGRATED CIRCUITS

Jay Scolio III, Field Applications Engineer, Maxim Corporation, Sunnyvale, CA 94086

- The Evolution of IC Processes
- Linear Integrated Circuits Overview I
- Linear Integrated Circuits Overview II
- Reliability Issues and Future Trends

THURSDAY, P.M.

DIGITAL INTEGRATED CIRCUITS

Peter Alfke, Director of Applications Engineering, Xilinx, Inc., San Jose, CA 95125

- Digital Technologies: Practical Design Concepts
- Microprocessors: Memories, Peripherals, Networks, and Telephony
- Application Specific ICs: Programmable Logic Arrays, Logic Cell Arrays, and Gate Arrays
- LSI: The Manufacturer's Point of View

FRIDAY, A.M.

FUZZY LOGIC AND NEURAL NETWORKS

Dr. Hamid Berenji, President and CEO, Intelligent Inference Systems Corp., Sunnyvale, CA

- Introduction to Fuzzy Logic
- Fuzzy Logic Control
- Applications of Fuzzy Logic Control
- Hybrid Fuzzy Logic and Neural Network Techniques

FRIDAY, P.M.

- Latest Developments and Examples
- The Future of Fuzzy Logic and Neural Networks

TECHNOLOGY REVIEW AND UPDATE FOR

TECHNICAL PERSONNEL

April 22-26, 1996

NAVAL POSTGRADUATE SCHOOL

MONTEREY, CALIFORNIA 93943-5110

REGISTRATION FORM

NAME _____

TITLE _____

ORGANIZATION _____

ADDRESS _____

CITY _____

STATE _____

ZIP _____

BUSINESS PHONE (_____) _____

DSN _____

FAX (_____) _____

HOME PHONE (_____) _____

Mail or FAX (408-656-2816) this form and mail registration fee of \$550.00 by April 7, 1996 to:

Space Systems Academic Group

Naval Postgraduate School

777 Dyer Road Rm 200

Monterey, CA 93943-5110