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TIME SENSITIVE MATERIAL

CALENDAR OF EVENTS

For reservations call the IEEE office 649-2800
(unless otherwise indicated)

Copy Deadline for June Scanfax is April 24, 1990

May 8 Tuesday	Chicago Section	Executive Committee	Contemporary Controls 2500 Wisconsin Downers Grove, IL	Meeting: 7:15 PM
May 9 Wednesday	EMC Society	EMC Considerations for Automobile Electronics	Motorola Inc. 4000 Commercial Ave. Northbrook, IL	Social: 7:15 PM Meeting: 7:30 PM
May 9 Wednesday	Power Engineering Society	How to Obtain and Enforce a Patent	Carson Pirie Scott Chicago-Monroe & Wabash Corporate Level	Social: 11:30 AM Lunch: 12:00 PM Meeting: 12:30 PM
May 9 Wednesday	IAS/IES Society	PIMS Controlers The Future is Now	Kathryn's Banquets 600 North River Road Mt. Prospect, IL	Social: 5:30 PM Dinner: 6:30 PM Meeting: 7:30 PM
May 15 Tuesday	Product Safety/ EMC/Comp/Comm/ EMB/EM/PC/IAS/IES/REL Soc	Product Safety: ID Impact on Computer Software	Underwriters Labs 333 N. Pfingston Rd. Northbrook, IL	Meeting: 6:30 PM
May 16 Wednesday	Communications Society	Telecommunications Problem - Solving Expert System	Wilton Manor Schmale Rd. Wheaton, IL	Social: 6:00 PM Dinner: 7:00 PM Meeting: 8:00 PM
May 16 Wednesday	Northwest Subsection/ Electron Devices Society	Single Frequency Laser and Their Applications	Mr. Peters Banquets Rand & Central Rds. Mt. Prospect, IL	Social: 6:00 PM Dinner: 7:00 PM Meeting: 8:00 PM

continued on page 11

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G1

APPLICATIONS ENGINEER

Our HELIAX® Products Marketing Department has an opening for an Application Engineer. The position involves giving assistance to sales in the selection and specification of HELIAX® Coaxial Cables and Assemblies for military OEM customer applications. Presentations to customers and input into product promotion activities will also be required. Another aspect of the position is participation in multi-disciplinary product development teams.

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For consideration, please send resume to: **ANDREW CORPORATION, Attn: Corporate Employment Manager, 10500 West 153rd Street, Orland Park, IL 60462.** An equal opportunity employer m/f/h.

ANDREW

SCANFAX, (Publication) number (ISSN 0018-1297), May, 1990 Volume 42, Number 9, SCANFAX is published monthly, except July and August by the Chicago Section Institute of Electrical and Electronics Engineers for the information of its members. Business Office is at IEEE Message Center—Suite 300, 820 North Orleans Street, Chicago, IL 60610, telephone number (312) 649-2800. Subscription rate for IEEE members collected in dues, \$1.50; others, \$15.00 per year. Third class postage paid at Glen Ellyn, Illinois.

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Change of Address

Send change of address to Roseann Schulz, Member Services, IEEE Service Center, 445 Hoes Lane, Piscataway, NJ 08854-4150. Include your SCANFAX mailing label if possible. We cannot forward this information for you, so please do not send it to the local office or phone direct to: 1-800-678-4333.

SOFTWARE ENGINEERS

Our company designs and manufactures sophisticated electronic instrumentation and control systems used in the medical, graphic arts and factory automation industries. We are in need of software engineers experienced in both assembly and high-level languages for both microcontrollers and board-level computers. Individuals should be familiar with structured software methodology and the use of PC-based design tools. Our company offers an excellent benefit package plus a small company design team environment. Send resume to Shirley Stein.

Contemporary Control Systems, Inc.

2500 Wisconsin Ave., Downers Grove, IL 60515



IEEE ELECTRON DEVICES SOCIETY

Northwest
Subsection

JOINT MEETING OF THE ELECTRON DEVICES SOCIETY AND THE NORTHWEST SUBSECTION

May 16, 1990

"Single Frequency Nd: YAG Solid State Lasers and Their Applications"

by Dr. Pedram A. Leilabady
Amoco Laser Co.

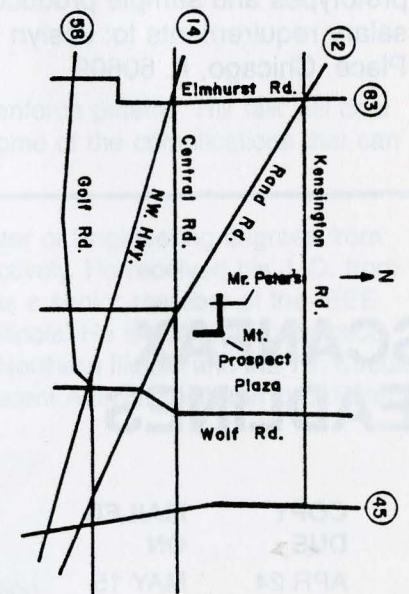
Single longitudinal mode lasers, particularly dual wavelength coherent sources, are valuable for a variety of applications ranging from telecommunications to interferometric sensing. This presentation will discuss the development of single frequency solid state lasers with highly improved spectral characteristics and techniques for obtaining low noise operation and long coherence length. Methods for obtaining multiplexed laser sources as well as self heterodyned coherent sources for sensors and telecommunications applications will be presented.

Dr. Leilabady received his BSc, Hons. and Ph.D. in Physics from the University of Kent at Canterbury, England. He is presently with the Amoco Laser Co., as the Senior Research Physicist responsible for the Single Frequency Laser Program.

Place: Mr. Peters Banquets
1018 E. Mt. Prospect Plaza
Rand and Central Roads
Mt. Prospect, Illinois

Time: 6:00 p.m., Social, Cash Bar
7:00 p.m. Dinner
\$12.00 with reservation by May 11
\$13.00 without reservation
8:00 p.m. meeting - All welcome, no charge

Reservations: Call the IEEE Office at (312) 649-2800



All Chapters Please Note:

Meeting notices - 1/2 page - must fit into a box no bigger than 7 1/2" wide by 4 3/4" tall. The Chicago Section has mandated 1/2 page meeting notices due to fund shortages. If you submit both a 1/2 page & a full page notice, the full page notice will be used if space is available. If you don't submit a 1/2 page notice, Scanfax will cut your notice & you may not like the way we cut it, so submit a 1/2 page notice.

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SCANFAX DEADLINES

ISSUE	COPY DUE	MAILED ON
JUNE	APR 24	MAY 15
-----	VACATION	-----

THESE ARE FIRM DEADLINES
FOR ADS AND COPY!!!

SEPT	JULY 24	AUG 15
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FEB	DEC 20	JAN 15 91
MAR	JAN 29 91	FEB 15
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MAY	MAR 26	APR 15
JUNE	APR 30	MAY 15

May 23, 1990
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Annual Meeting of the IEEE Communications Society

AGENDA:

- Election of Chapter officers
- Technical Presentation: **Telecommunications Problem Solving Expert System - a Design Methodology**

DATE: Wednesday, May 16, 1990

GUEST SPEAKER: Joseph Jesson, Amoco Corporation

PLACE: Wilton Manor, Schmale Rd., Wheaton

TIME/COST: Social: 6:00 PM - Cash Bar Dinner: 7:00 PM - \$11.00

Speaker: 8:00 PM - FREE

RESERVATIONS: Call (312) 649-2800 to make reservation for Dinner and/or Meeting by Monday, May 14, 1990.

FURTHER INQUIRIES: For further questions call Dr. Vijay Garg at (708) 713-7220.

ABOUT THE TOPIC: In solving telecommunications problems, an overall model of the domain must be built and expertise must be determined in order to design an expert system. An expert system is one method used to communicate network problem solving capability along with building internal problem solving skills. The talk will review methods of knowledge acquisition of network problem resolution rules using physical models. In addition, Mr. Jesson will review existing software expert system development tools.

ABOUT OUR SPEAKER: Joseph Jesson has been in the electronics industry for over 15 years and 5 years in the area of expert system tool selection, design, and implementation. He has been employed as an electrical engineer at Motorola, Sr. Engineer at Oak Industry, Marketing Manager for Advanced Input Devices at Switchcraft, and Communications Operations Manager at CNA Insurance. Mr. Jesson is Sr. Technical Analyst and Advisor for Amoco Corp.

IEEE POWER ENGINEERING SOCIETY

SPEAKER: Mr. S. T. Naumann - Research Engineer
Commonwealth Edison Company

TOPIC: HOW TO OBTAIN AND ENFORCE A PATENT

ABSTRACT: In his talk, Mr. Naumann will discuss how to obtain and enforce patents. His talk will deal with the basic requirements for patentability as well as some of the complications that can occur during enforcement litigation.

SPEAKER: Mr. Naumann received his Bachelor of Science and Master of Engineering degrees from Rensselaer Polytechnical Institute in 1971 & 1972 respectively. He received his J. D. from IIT/Chicago Kent-College of Law in 1988. Mr. Naumann is a senior member of the IEEE and a Registered Professional Engineer in the State of Illinois. He is licensed to practice law in Illinois State Courts, the Federal District Court for Northern Illinois and the 7th Circuit Court of Appeals. Mr. Naumann is also registered as a Patent Attorney with the U.S. Patent and Trademark Office.

PLACE: Carson Pirie Scott - Chicago (Monroe and Wabash)
Corporate (lower) Level

DATE/TIME: May 9, 1990/11:30 Social, 12:00 Lunch, 12:30 Presentation

RESERVATIONS MUST BE MADE BY MONDAY 5/7/90, 12:00 PM. RESERVATIONS MAY BE MADE BY CALLING THE IEEE CHICAGO MESSAGE CENTER AT 649-2800. PLEASE LEAVE NAME(S) AND COMPANY NAME(S) FOR THOSE WISHING TO ATTEND.

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Control Cables	Phase Matched Cable Assemblies
Data Processing Cable (High Speed)	Point of Sale Cable
Delay Lines	Power Limited Circuit Cable Class 2 or 3
Fiber Optic Cable & Assemblies:	Power Limited Fire Alarm Cable
Fiber Optic Adaptors	Power Limited Fire Protective Signaling Cable
Fiber Optic Attenuators	Process Control Cables
Fiber Optic Coil Cords	Pulse Cables
Flexible Cord - SJT, ST, STO, SJTO (UL/CSA) Hospital & Export Cords	Improved RF Cable & Assemblies
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INDUSTRY APPLICATIONS SOCIETY INDUSTRIAL ELECTRONICS SOCIETY CHICAGO CHAPTER

Wednesday, May 8

**PIMS CONTROLLERS
THE FUTURE IS NOW!!!**

ABOUT THE SPEAKER/TOPIC

Michael Colgin - President, PMC Control Sales
St. Charles, IL

A forum discussion/overview on sophisticated processor-based controllers that combine the ability to perform discrete logic control with continuous analog decision-making abilities. These **Programmable Integrated Multi-Control System (PIMS)** controllers are being applied in manufacturing and process industries today.

**PROGRAM SPONSOR: C. Trevor Hinchliffe
The Flolo Corporation**

Location
Kathryn's Banquets
600 North River Rd.
Mt. Prospect, IL.

Time
Social: 5:30 PM
Dinner: 6:30 PM
Program: 7:30 PM

Election of officers will also take place. The Nominating Committee will present the following slate of officers:

CHAIRMAN - Ronaldo Jenkins

VICE-CHAIRMAN/TREASURER - John R. Kovacik

SECRETARY - Jim Boch

PROGRAM COMMITTEE CHAIRMAN - Jim Paul

Please call the IEEE Message Center at 649-2800 for reservations.

FOX VALLEY SUBSECTION

in a Joint Meeting with

THE IEEE COMPUTER SOCIETY

&

THE ENGINEERING MANAGEMENT

PROFESSIONAL COMMUNICATION SOCIETY

TOPIC: Measuring Software - The New IEEE Standards on Software Productivity and Quality Metrics; What They Will Do for Software Development

DATE: Wednesday, May 23rd, 1990

SPEAKER: Mr. Nicholas L. Marselos

PLACE: Wilton Manor, Schmale Rd., Wheaton

TIME/COST: Social: 6:00 p.m. - Cash Bar
Dinner: 7:00 p.m. - \$12.00
Speaker: 8:00 p.m. - Free

RESERVATIONS: Call (312) 649-2800 to make reservations for Dinner and/or Meeting, **by Monday, May 21st, 1990.**

TECHNICAL QUESTIONS: Direct questions about our topic or speaker to Joe Feitler at (708) 505-9100 x277.

ABSTRACT: The 1990's brings increasing pressure on software producers to make better quality and cheaper software. But, to improve a process you first have to understand it. There is growing interest in software metrics to meet this challenge. Leading the way is IEEE with two new standards due out soon: Software Productivity Metrics and Software Quality Metrics. Nick Marselos will describe what is in these standards, and how to use them to improve software processes and products.

ABOUT OUR SPEAKER: Nick Marselos is editor and secretary of the IEEE Working Group that is developing the Standard for Software Productivity Metrics. He is a Consulting Member at AT&T, providing company wide consulting on software metrics and development practices. He joined AT&T 25 years ago after receiving a Bachelor's Degree in Physics at the Illinois Institute of Technology. Nick has been a speaker at many professional conferences, author of many technical papers, and co-author of two books on software:

PLACEMENT SERVICE

The Chicago Section is now offering a Placement Service for its members free of charge. The program is intended for those who are Member Grade and above and is a positive step to help our members who are unemployed. If interested in any of the applicants listed below, call the IEEE office 649-2800 for their name and phone number. If marked "confidential," the applicant will be contacted by the IEEE office so that he/she may contact the prospective employer.

- | | |
|-----|--|
| 189 | Product Mgr - Custom Camera/Systems:
Assoc. Deg.: Terminals Reg. Svc. Mgr:
Medical, Optic, Sales - Knowledge |
| 190 | BSEE with Strong Gen Mgt Skills in Sales
Mrktg & Engr. with Record of Generating
Profitable Growth |
| 191 | BSEE, 10 yrs. Management Experience of
Sales, Eng., and General Business Seeks
Management Position |
| 192 | BSEE - EIT Certified with Managerial Exp. in
Packaging Service Seeks Entry Level
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| 193 | Systems Manager - Specializing in Data
Acquisition, Reduction, and Retrieval, and
Computer Control |

IEEE CHICAGO SECTION SCANFAX PLACEMENT SERVICE

The information on this form will be given to prospective employers who call unless you note "CONFIDENTIAL" on the top of the form. If you accept employment, please notify us *immediately* so that we may clear our files.

Each ad will run in two consecutive issues of Scanfax. Deadline is the 25th of the second month preceding issue. For example, an application received on February 20 will be in the April issue; one received March 3 will be in the May issue. Scanfax is not published in July or August.

Name _____ IEEE No. _____ Expir. Date _____

Address _____ IEEE Grade _____

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Please note your ad in the 99 spaces provided:

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The IEEE waives any responsibility in determining the credibility, accuracy or qualifications of applicants or employers. Send this application to:

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c/o Robert A. Schrage
Commonwealth Edison Co.
P.O. Box 767 - SMED-1835E
Chicago, IL 60690

RELIABILITY SOCIETY ANNUAL ELECTION AND PLANNING MEETING

May 17, 1990

7:00 PM at Midway Motor Lodge
1600 Oakton Avenue
Route 83 @ Oakton
Elk Grove Village, IL

Slate of Officers

Chairman - Daniel Glab
Vice-Chairman - Kim Smith
Secretary/Treasurer - Hugh Edfors
Program Chairman - Mike Ero
Membership Chairman - James Klouda
Public Relations Chairman - Warren Foxwell

Reservations should be made through the IEEE MESSAGE CENTER at 649-2800

Dinner: 6:00 PM • Meeting: 7:00 PM

IMPORTANT MESSAGE FROM THE EDITOR TO ALL CHAPTER AND SECTION CHAIR, CHAPTER AND SECTION PUBLICITY, AND CHAPTER AND SECTION PROGRAM PEOPLE

The 1990 SCANFAX budget has been cut by the executive committee due to lack of income from MIDCON. We will no longer have a full page available for each different IEEE event. Starting immediately, I must have 1/2 page sized meeting announcements. They can be in a smaller typefont than previously used, if you wish. If I have to cut a full-sized meeting notice, you might not like the way I cut it, so please submit 1/2 page sized announcements. If you wish to also submit a full-sized announcement, and if space is available, I will use the full-page version whenever it is possible. Your help is greatly appreciated by myself and the executive committee.

NOTE: Northwest subsection followed instructions, they got a full page.

Bob Hofmann - SCANFAX Editor

MAY MEETING OF THE APS/MTT SOCIETY
MONDAY MAY 21, 1990

MICROSTRIP ANTENNAS: PRINCIPLES AND APPLICATIONS

MR. ROBERT E. MUNSON

Director, Advanced Programs, Ball Aerospace Systems Division

The principles of operation of microstrip radiators, including quarter-wave, half-wave and full-wave patches, circularly-polarized radiators and dual-polarized radiators will be covered. Then Mr. Munson will cover application of microstrip radiators and arrays, including wraparound antennas, fixed beam and phased array microstrip antennas.

LOCATION: The Forum Restaurant 1st exit north of I90 off Rt 53. 3/4 mile east on Rt. 62,
789 W. Algonquin Rd. Algonquin Rd., at the intersection of Rt. 58, Golf Road.
Arlington Heights, Illinois

TIME: Cocktails 5:30 Dinner 6:30 Speaker 7:30

RESERVATIONS: 312-649-2800 by May 18.
Nonmembers welcome. Dinner cost \$21, IEEE student members dinners are subsidized.

IEEE Lasers and Electro - Optics Society
CHICAGO CHAPTER
SECOND ANNUAL BANQUET & AWARDS CEREMONY

FRIENDS AND FAMILIES WELCOME

DATE: Friday May 18, 1990
GUEST SPEAKER: Dr. Colin Webb, Chairman & Founder, Oxford Lasers.
TOPIC: The Development of the Laser: The Untold Story
ABOUT OUR SPEAKER: Dr. Colin Webb has been intimately involved with laser design, development, and production for nearly three decades.
SOCIAL: 5:15 PM (Cash Bar)
DINNER: 6:15 PM (\$15 per person, \$8 for students)
AWARDS PRESENTATION: 7:15 PM
GUEST SPEAKER: 7:30 PM
LOCATION: Holiday Inn Crowne Plaza
3000 Warrenville Road, Lisle, IL (708-505-1000)
DIRECTIONS: Exit at Naperville Road from E-W tollway (88), go north on Naperville Road, to Warrenville Road.
Turn right (at signal light). Holiday Inn is 1/2 block east on Warrenville Road on the left (north) side.
Entree choices are Beef Sirloin or Pasta Primavera. Advance dinner reservations should be made by calling the IEEE Chicago Message Center at (312) 649-2800 by 5:00 PM on Monday May 14.
For additional information, contact David Naylor at (312) 996-6010.

PRODUCT SAFETY TECHNICAL COMMITTEE
OF THE EMC SOCIETY

Joint with

Computer Society
Reliability Society
Communications Society
Electronics in Medicine
and Biology Soc

Engineering Management/
Professional Communications Society
Industry Application/
Industrial Electronics Society

SPEAKERS:

Paul T. Phillips
Acting Group Leader
Service Engineering
Argonne National Laboratory
Argonne, IL

Joseph Feitler
Interactive Systems Corp.
E. Kodak Co.
Naperville, IL

DATE:

Tuesday, May 15, 1990

TIME:

6:30 PM

INFORMATION:

Richard Hagedorn (708) 505-5722
John Allen (708) 827-7520
John Knecht (708) 272-8800

LOCATION:

Underwriters Laboratories, Inc.
333 N. Pfingsten Rd.
Northbrook, IL 60062

Between Dundee Rd. and Lake Cook Rd.:
Please use the main entrance at Pfingsten Rd. which is
1 block south of traffic light at Pfingsten and Maria Av.,
park in visitors lot and use the main lobby entrance.

TOPIC: PRODUCT SAFETY: ITS IMPACT ON COMPUTER SOFTWARE

Paul will focus on the technology of Home Automation:

- PLC: The powerline carrier method developed by X10 USA, Inc.
- CEBUS: The consumer Electronics bus provides choices among PLC, twisted-pair telephone cables, radio frequency transmissions, infrared, coaxial cable, and fiber optics.
- SMART HOUSE: developed by the National Association of Home Builders (NAHB) is a new concept in residential wiring and already a part of the National Electrical Code.

Joe will discuss recent articles from IEEE publications which highlight several hazards where computer software seem to play a significant role. He will discuss the need for more industry standards including a recently proposed British Military Standard.

CALENDAR OF EVENTS

continued from page 1

May 17 Thursday	Reliability Society	Annual Election and Planning Meeting	Midway Motor Lodge 1600 Oakton Ave. Elk Grove Village, IL	Meeting: 6:00 PM Dinner: 7:00 PM
May 18 Friday	Lasers and Electro- Optics Society	Development of Laser/ Banquet and Awards Ceremony	Holiday Inn Crown Plaza 3000 W. Warrenville Rd. Lisle, IL	Social: 5:45 PM Dinner: 6:15 PM Meeting: 7:15 PM
May 21 Monday	APS/MTT Society	Microstrip Antennas: Principals and Applications	Forum Restaurant 789 W. Algonquin Rd. Arlington Heights, IL	Social: 5:30 PM Dinner: 6:30 PM Meeting: 7:30 PM
May 23 Wednesday	Fox Valley Computer Society/ ENG MGMT PROF COMM SOC and Quality	IEEE Standards on Software Productivity	Wilton Manor Schmale Rd. Wheaton, IL	Social: 6:00 PM Dinner: 7:00 PM Meeting: 8:00 PM

E M C SOCIETY MEETING

DATE/TIME: Wednesday, May 9, 1990 / 7:15 PM Social, 7:30 PM Meeting
LOCATION: Motorola, Inc., Automotive and Industrial Electronics Group
4000 Commercial Ave., Northbrook, IL 60062
TOPIC: "E M C Considerations for Micro-Processor Based Electronics Modules"

Join us for the next meeting of the Chicago area IEEE EMC Society on Wednesday, May 9, 1990 at Motorola AIEG.

The presentation will be given by Jerry Meyerhoff, Principal Staff Engineer with Motorola. The theme will cover specifications that may be unique to the automotive industry and some "real world" experiences that necessitated them. Test methods and equipment will be discussed and case studies will be used to illustrate some of the most common root cause EMI/RFI mechanisms.

Included is a tour of the Motorola AIEG Northbrook EMC lab.

DIRECTIONS: Exit Rt. 294 at Willow Rd., west to Sanders Rd. (1st light), North to Commercial Ave. (1st light N of Dundee), East to Motorola, Enter at Employee Entrance, 2nd building entrance.

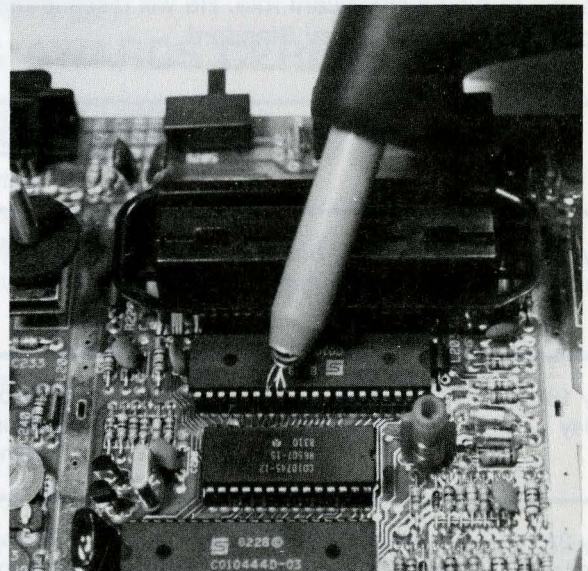
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