Changing of the Guard — Normally, every two years a new President of the IEEE Reliability Society is installed. The election is held each year with a maximum term of two years. The president is voted on by the Advisory Committee. I will be your president for 1991 and the other elected or appointed officers are shown on the next page of this newsletter. Our purposes are to:

- formulate and carry out policy pertaining to society matters
- administer operations of the society including meetings, publications, etc.
- look for ways to advance the state of the art
- serve the needs of our membership and the profession at large

If you would be interested in learning more about our Adcom operations, please contact me directly or one of the Vice Presidents listed on the following page.

Switzerland Chapter — The newest chapter of the IEEE Reliability Society, has just been formed in Switzerland. This makes a total of 18 chapters now. Welcome Switzerland!

Anyone wanting to form a chapter, needs to notify the IEEE of their intention. A petition form will be sent from the IEEE headquarters. A dozen members from any IEEE Section can so petition and create a chapter. I did this eleven years ago in forming the Denver Chapter. The reliability professionals in our area have gained a lot from this chapter formation! Please contact myself or Mr. Henry Hartt, VP of membership for help in this matter.

Salutation — I wish each of you the best and would enjoy hearing of your perceptions, aspirations and desires of this professional society.

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Reliability Society Newsletter Inputs
All RS newsletter inputs should be sent to one of the Associate Editors, Gary Kushner or Mark Snyder, per the following schedule:

For January Newsletter: by October 25
For April Newsletter: by January 25
For July Newsletter: by April 25
For October Newsletter: by July 25

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Material may be FAX’d to Gary Kushner at (508) 467-6796 (please be sure to say Attn: Gary Kushner at x6765)

Annual Awards Dinner
Each year, a special dinner is held in conjunction with the January meeting of the Reliability Society AdCom and the RAM Symposium. The featured event is the award of the Annual IEEE Reliability Society Award. The 1990 recipient was Colonel Dominic F. Basile who was cited for his direction and leadership in the Army’s Single Channel Ground and Airborne Radio System (SINCGARS). In addition to the installation of the new officers of the Reliability Society AdCom, Colonel Basile inspired the room with his remarks in acceptance of the award.

Chapter News

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Welcome, New Members

Reliability Society Newsletter

April 1991

Texas Instruments/Defense Systems and Electronics Group, was well received by the attendees.
January—"Super Conducting Super Collider (SSC) Magnet Reliability" was presented by Jim Francisco, a Systems Engineer with Lockheed assigned to the SSC. This meeting was well attended by a wide cross section of people including two Russian Engineers who were in the area.

February—"IC Packaging: Design, Development, and Reliability" was presented by Steven Groothius, Texas Instruments/Semiconductor Group. This was a joint meeting with the Electronic Devices Society.

March—"Overview of NSIA Concurrent Engineering Task Group Studies" was presented by a member of one of these national Task Groups. The April and May meetings will close out the first half of 1991. The April meeting is entitled "Is your Software Ready for Release", and the May meeting will cover the "Assessments of Soldier Joint Field Reliability via Military/Contractor Repair Survey". The IEEE Reliability Society membership continues to increase in the Dallas area. Dallas Reliability and Maintainability Engineers, please get involved in your local society's activities, benefit from the Technical meetings, and make new business contacts.

Boston

In the Boston Chapter, Dr. Robert Swartz from Mitre drew a record crowd to his January dinner talk on Software Reliability Models. Dr. Swartz reviewed the strengths and weaknesses of the dominant software models that have been proposed over the years and recommended an interactive/iterative approach of simultaneously evaluating several models in order to find the best suited to individual needs and experiences.

In February, Dr. Lee Pollack of the Air Force presented a Bayesian approach to Accelerated Reliability Testing in which he validated his methods with several examples of field reliability data. March's dinner meeting featured Donald Wright of Bell HN presenting his experiences with Quality Functional Deployment (QFD) as a total quality discipline to integrate customer requirements into product development.

The chapter also sponsored a Spring Lecture Series on Environmental Stress Screening which featured Gene Bridgers of Codex Corporation speaking a lifetime of ESS knowhow into three short evening sessions. ESS is also the theme of the ongoing Technology Development Workshop, which is developing a guidebook to ESS issues and implementation. The week prior to the lecture series, a lively roundtable discussion on ESS issues took place to raise consciousness and tailor lecture series material appropriately to the needs of participants.

April features the chapter's premier event (take a deep breath) the 29th Annual All Day Seminar "Staying Competitive in the 90's: Reliability, Maintainability and Quality for a Changing World". The chapter is fortunate to host Willis J. Willsoughby Jr., Director of Product Integrity for the U.S. Navy as the keynote speaker. An overwhelming number of papers have been submitted putting us in the unusual position of having to actually turn away several presentations. The quality of this year's submitted papers promises to make the seminar one of the best we've ever sponsored.

Coming up in May, the chapter continues its recent tradition of sponsoring a social event for members and guests with an evening featuring "Nduggal" on stage at the Nickerson Theater.

Denver

In November of 1990 Bob Jaques of Martin Marietta conducted a meeting entitled "Future Space Missions" which included a tour of Martin's facility near Denver. This meeting was very well attended. December saw the chapter meet for a holiday dinner at the Country Dinner Playhouse in Denver. As a kickoff meeting for January, the chapter heard about research efforts on cold fusion going on at the Colorado School of Mines in Golden, Colorado. In February, the chapter toured OEA, Inc., a manufacturer of high reliability aerospace products which include explosive-activated devices used in aircraft personnel escape systems, pilot ejection canopies and other devices including electrical devices for activating automobile airbags. The March meeting featured Dr. Wayne Nelson speaking on 'Graphical Analysis of Failure Data from Repairable Systems'. The meeting with Dr. Nelson was followed by a reception and dinner.

Washington/Northern Virginia

The Washington/Northern Virginia Chapter is pleased to announce that the enthusiastic and extensive participation of chapter members in Society activities resulted in the Chapter receiving the award in the 1989-1990 Chapter Program. The award was presented to the 1989-1990 Chairman, Antonino Ingegneri at the awards banquet in Leesburg, Va. on 11 October 1990 by IEEE Reliability Society AdCom President, Bernard Ban.

In November 1990, Mike Howchyn of Eastman Kodak provided the chapter members with a talk on the history and applications of High Speed Motion Analysis accompanied by a demonstration of the EKTAPRO 1000 System. Other chapter members interested in a real nice show on this topic can contact Mike at: Eastman Kodak Co.

9515 Deereco Rd
Suite 500
Timonium, Md 21093-2119

Phone (301) 560-0386
FAX (301) 561-8944

If you aren't within Mike's range, he has promised that he will find someone at Kodak who can give the show to you.

At the December 1990 meeting, Mr. Murry J. Chuck of the General Accounting Office discussed the subject of Human Safety Risks of Automation, covering: Impacts of system failure, uses involving human safety, degrees of risk, failure causes and suggested actions.
"Staying Competitive in the 90's:
Reliability, Maintainability & Quality for a Changing World"

KEYNOTE SPEAKER: Willis J. Willoughby, Jr., Director of Product Integrity, Office of the Assistant Secretary of the Navy (Research, Development and Acquisition)

PAPERS TO BE PRESENTED ARE:

- **Reliability Challenges and Strategies for the Nineties**
  Pal P. Raju, Digital Equipment Corporation

- **PC Computation of MTTF: Fail-Safe Vs. Fail-Danger**
  William M. Goble, Moore Products Co.
  Julia V. Bukowski, Villanovia University

- **Reliability of Plastic Encapsulated Microcircuits**
  J. Thomas May, Steve B. Bray, Avery Hevesh, Raytheon Company

- **The Search for a Faster Reliability Verification Approach**
  Ugo Garganese, The MITRE Corporation

- **Software Reliability Measurement**
  Michael Elbert, Richard C. Howe, Tom Weyant, Digital Equipment Corporation

- **Reliability in Process Control**
  John Peter Rooney, The Fosberon Company

- **STRIFE: Testing, A Method of Enhancing Reliability Growth**
  Henry A. Goodman, Ball PN Information Systems

- **Surface Mount Technology (SMT) Reliability Concerns**
  David Comstock, Lockheed Sanders

REGISTRATION FEES: (fees include seminar, lunch, and dinner).
Prior to March 31, 1991: $150 IEEE members, $175 non-members
After March 31, 1991: $175 IEEE members, $200 non-members
NOTE: A $25 rebate provided to non-members who join the IEEE within a reasonable time.

Make checks payable to: Reliability Chapter of Boston IEEE Section
Mail checks and registration form to: Anita Cederhol, 54 Linda Circle, Marlboro, MA 01752

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29th ANNUAL ALL DAY RELIABILITY SEMINAR REGISTRATION FORM

Name ___________________________ Company/ Affiliation ___________________________
Address ___________________________ Town/City ___________________________
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