

PULSE

Vol. XIV, No. 2

June 1992

SPS INSTALLS CRAY XMS

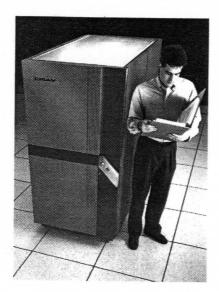
Signal Processing Systems has recently installed a CRAY XMS computer system which was made available under customer sponsorship.

The XMS will be used to support a variety of advanced data processing initiatives an business opportunities. For the last several years, many SPS customers have been emphasizing the transition from special purpose hardware based solutions to more general purpose, high level language (FORTRAN & C) software implementations executing on off-the-shelf computer systems. CRAY computers have been popular during this transition because of the high processing performance they offer.

The CRAY XMS, a low end system which features 64 MIPS of vector processing speed, is completely code compatible with the full line of CRAY supercomputers. In addition, the operating system, UNICOS, is the CRAY implementation of UNIX, thus promoting greater portability of developed applications.

The XMS is contained in a single five by three foot cabinet that stands five feet high and uses ambient air cooling.

Contributed by Frank Doran



LORAL CORPORATION IS NOW A FORTUNE 200 COMPANY...PRECISELY!

LORAL TO DEVELOP RUGGEDIZED INSTRUMENTATION RECORDER

On April 1, 1992, METRUM Information Storage (the former Honeywell Test Instruments Division) signed an agreement granting Loral Data Systems a license to design and manufacture a ruggedized version of its buffered VLDS (Very Large Data Store) instrumentation recorder.

Under the terms of the agreement., METRUM will provide technical data, documentation, and support necessary for Loral to develop a ruggedized buffered VLDS product. The two companies will jointly market the new ruggedized recorder, with Loral maintaining the rights to world-wide military markets, and METRUM to U.S. commercial markets.

The METRUM/Loral partnership will significantly expand the data acquisition and sotrage applications for the Buffered VLDS recorder, particularly in those military programs where ruggedization and programmatic support (i.e. configuration management, integrated logistic support) are highly desirable.

Originally introducing the VLDS in 1987, METRUM began marketing a variable data rate, buffered version in mid-1991. The recorder, which utilizes half-inch T-120 data cartridges as media, has a storage capacity of 10.4 Gigabytes per tape and variable data rates of up to 4 Megabytes/second. It was developed to meet the data acquisition/storage demands of newly developing imaging technologies such as medical imaging, advanced geophysical analysis, and animation/simulation. The product also has applications in the military and aerospace markets including telemetry, sonar, and radar.

The design effort consists primarily of replacing commercial components with "high-rel," shock mounting the tape transport, and chassis redesign. This will be LDS's entry into rotary technology and a step toward the future for the Instrumentation Recorder Product Line. Although VLDS is a high density digital recorder, it does not have the high speed recording capability, total storage capacity, nor does it meet the MIL-SPEC requirements of our DV6000 series recorders designed and manufactured by our associates at Schlumberger Industries, Velizy, France. The VLDS is, however, a perfect complement to the DV6000 recorders, allowing us to address the "low end" portion of the market we would have previously lost to less costly solutions.

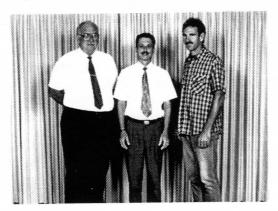
HAPPY ANNIVERSARY

APRIL, 1992



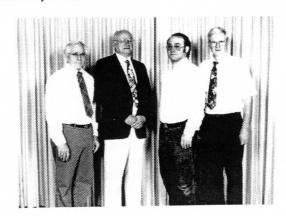
L To R: David Lyon, 10 yrs., Jeanne Ruth, 10 yrs., Arlene Klinebriel, 15 yrs., Dick Veigel, 15 yrs. Not pictured: Larry Dunham, 35 yrs.

MAY, 1992



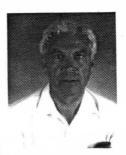
L to R: Bill Gibson, 35 yrs., Ken Slezak, 15 yrs., Mark Lawson, 15 yrs., Not pictured: Burt Schmitt, 20 yrs., Deanna Turpin, 10 yrs.

JUNE, 1992



L to R: Dave Walker, 30 yrs., George Prozzo, 35 yrs., Mike Smith, 15 yrs., Larry Wells, 30 yrs. Not pictured: Jim Toms, 5 yrs.

WHO'S NEW?



BARRY SLINGSBY
Principal Electrical Engineer
April 20, 1992



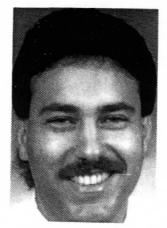
SHARI NITTERAUER
Human Resources Administrator/Secretary
May 4, 1992



KENNETH KING Sales Engineer May 11, 1992



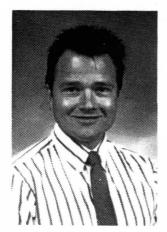
LORAL DATA SYSTEMS EMPLOYEES EARN DEGREES CONGRATULATIONS!



Jose Alvarez



Jim Horvath



Scotte Lee Kavanaugh



Teri Schinbeckler Vokus



Todd R. White

JOSE ALVAREZ recently earned a Master of Science in Engineering Management from the University of South Florida.

Joe is a Senior Production Engineer and has been with LDS since July, 1989.

JIM HORVATH has earned a Bachelor of Science degree in Business Administration from Kennedy-Western University, Boise, Idaho.

Jim joined our company in August, 1966 and is currently working in the area of marketing and publicity.

SCOTTE LEE KAVANAUGH has received a Bachelor of Arts degree in Business Management from Eckerd College.

Scotte, who joined LDS in March, 1984, is an Associate Configuration Data Management Specialist.

TERI SCHINBECKLER VOKUS has received a Masters Degree in Computer Engineering from USF-Tampa.

Teri joined LDS in July, 1988, and is currently a Telemetry Senior Software Engineer.

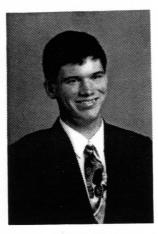
TODD R. WHITE received a Master of Science degree in Contract and Acquisition Management from Florida Institute of Technology in St. Petersburg. Todd will take the CPCM Certification Exam in the near future.

Todd joined LDS in October, 1986, and is currently a Configuration Data Management Specialist.

Congratulations, Graduates



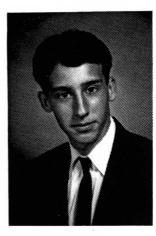




Scott Winfield Bowen



Robin Elizabeth Burns



Jamey R. Casteel

VICTORIA L. ANDERSON-HALL, daughter of Ernestine Anderson, Credit Union, graduated with an Associates of Arts Degree in Accounting from Manatee Community College. Victoria plans to attend USF for a BA in Accounting leading to a career as a CPA.

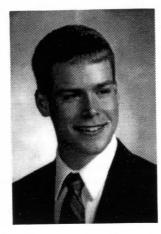
SCOTT WINFIELD BOWEN, son of Debora Bowen, Accounting, graduated June 4 from Venice High School. Scott will attend college in the fall to pursue a career in behavioral or political science.

ROBIN ELIZABETH BURNS, daughter of Ellis Burns, DOD Programs Manager, SPS, graduated June 2 from Sarasota High School. Robin will begin her college studies at Manatee Community College. She then plans to continue her education at a University.

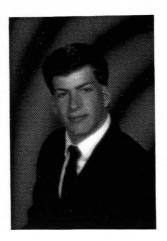
JAMEY R. CASTEEL, brother of James Casteel, Machinist A, graduated June 6 from Riverview High School. Jamey plans a career as an auto technician.



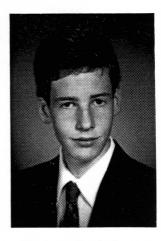
Maria Joanne Conway



Jason Davis



Joel Davis



Keith Richard Dungan

MARIA JOANNE CONWAY, wife of Anthony Conway, Electronic Technician B, SPS, graduated from USF, Sarasota on May 5 with a Bachelor of Arts Degree in Business Administration/Accounting. Maria will continue on for her Masters Degree and CPS designation.

JASON DAVIS, son of Bill Davis, Sr. Production Engineer, graduated from the University of Miami in Coral Gables with a BS Degree in Electrical Engineering. Jason, the 1988 recipient of the Schlumberger Scholarship, will be working for EDS Corporation as an electrical engineer.

JOEL DAVIS, son of Bill Davis, Sr. Production Engineer, graduated June 4 from Sarasota High School. Joel will attend Harding University in Searcy, Arizona, where he will major in elementary education.

KEITH RICHARD DUNGAN, son of Dick Dungan, Principal Test Engineer, Manufacturing, graduated from Manatee Community College with an Associate of Arts Degree. Keith will continue his studies at the University of Florida, College of Architecture.

We are Very Proud of You!



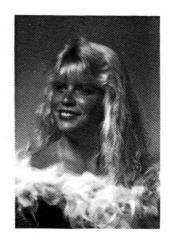




William Heaton



Dawn Klineschmidt



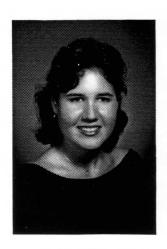
Melanie Anne Long

ZOE L. FORD, daughter of Simon Ford, Test Technician A, graduated on June 2 from Sarasota High School. Zoe plans to enter Manatee Community College this fall.

WILLIAM HEATON, son of Bob Heaton, Manager, MIS Technical Support, graduated June 6 from Riverview High School. William will study engineering at Manatee Community College.

DAWN KLINESCHMIDT, daughter of Myron Klineschmidt, Photo Lab Technician, recently graduated from Xenon International School of Hair Design in Omaha, Nebraska. Dawn plans to return to Florida to do hair and make-up.

MELANIE ANNE LONG, daughter of Jack Long, IR Sales Manager, graduated on June 5 from New Directions High School. Melanie will attend Manatee Community College's program in X-ray Technology.



Gloria Marrero



Corina Tyan Matthews



Ashley N. McCulloch



Sine Aileen Murray

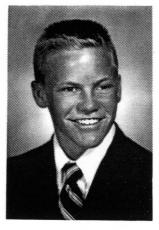
GLORIA MARRERO, daughter of Baba Marrero, Departmental Secretary A, Quality Assurance, graduated from USF, Tampa, with a Bachelor of Arts Degree in Technical Writing. Gloria plans to continue her studies toward a Masters Degree in English at USF, Tampa.

CORINA TYAN MATTHEWS, daughter of Betty J. Matthews, E/M Assembler, graduated on June 2 from Sarasota High School. Corina will attend Manatee Community College for a degree in nursing, specializing in pediatrics.

ASHLEY N. McCULLOCH, daughter of Thad McCulloch, Engineering Manager, SPS, graduated from Booker VPA. Ashley will be attending Ringling School of Art & Design.

SINE AILEEN MURRAY, daughter of Ann Murray, Electronic Publishing Operator A, graduated on April 25 from FSU, Tallahassee, with a Bachelor of Arts Degree in Fine Arts. After a year in Europe, Sine will continue her studies toward a Masters Degree in Archeology or Museum Management.

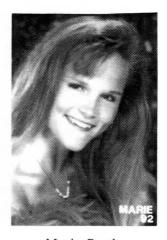
Congratulations for a Job Well Done!



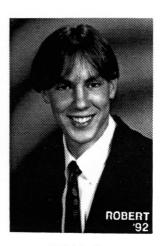




Michelle Orr



Marie Reedy



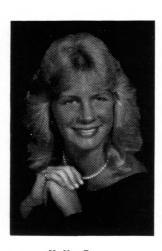
Robbie Rose

ADAM J. NITTERAUER, son of Shari Nitterauer, Human Resources Administrator/Secretary, graduated on June 6 from Riverview High School. Adam will attend Manatee Community College and plans a career in journalism.

MICHELLE ORR, daughter of Al Orr, Senior CDM Specialist, graduated from Bayshore High School on June 6. Michelle has enlisted in the U.S. Army Military Police School.

MARIE REEDY, granddaughter of Ed Domrzalski, Coordinator, Software Support, graduated on June 6 from Riverview High School. Marie plans to pursue a career working with handicapped children.

ROBBIE ROSE, son of Sharon and Ralph Krueger, graduated on June 6 from Bayshore High School. Robbie will attend Oakland Community College in Royal Oak, Michigan. Sharon is an E/M Assembler and Ralph is a Fab Inspector B.



Kelly Stover



Michael Tonkin



Sandra Lyn Zeiler

KELLY STOVER, daughter of Don Stover, Technical Production Supervisor, graduated from FSU, Tallahassee on June 25 with a degree in psychology. Kelly will continue on for her Masters.

SUSAN MILLER TAYLOR, wife of Paul Taylor, Principal Software Engineer, TLM, graduated from USF, Tampa with a Bachelor of Arts Degree in Psychology. Susan is a member of PI GAMMA MU, the international honor society in social sciences and PSY XI, the psychology honor society. Susan plans to pursue a PhD in clinical psychology. (No picture available)

MICHAEL TONKIN, son of Earl and JoAnn Tonkin, graduated from Sarasota High School on June 2. Michael has enrolled in law studies at Sante Fe Community College.

SANDRA LYN ZEILER, daughter of Len Zeiler, Sr. Principal Systems Engineer, graduated from Riverview High School on June 6. Sandra will attend Mercer College in Macon, Georgia where she will major in pharmacology and biochemistry.

SOCIAL SECURITY RETIREMENT AGE TO RISE

If you were born after 1937 and will be retiring after the year 2000, you should be aware that scheduled changes in the Social Security retirement age could affect your financial planning. The changes are of particular interest to the 76 million "baby boomers" who will be edging closer to retirement age as the change becomes effective.

Gradual Increase

The 1983 Social Security legislation that stabilized the long-term financing of the Social Security Old-Age and Survivers Insurance Trust Fund also mandated a gradual increase in the age at which workers can receive full retirement benefits. Beginning in the year 2000, workers born after December 31, 1937, will have to be 65 years and 2 months to receive full retirement benefits. The accompanying chart shows how the retirement age will increase in 2-month increments until it reaches age 67 in 2027.

The age of eligibility for Medicare benefits was not changed by the 1983 legislation; it continues to be age 65.

Age for Full Social Security Benefits	
Year of Birth	Full Retirement Age
1937 or earlier	65
1938	65 and 2 months
1939	65 and 4 months
1940	65 and 6 months
1941	65 and 8 months
1942	65 and 10 months
1943-54	66
1955	66 and 2 months
1956	66 and 4 months
1957	66 and 6 months
1958	66 and 8 months
1959	66 and 10 months
1960 or later	67

Because the Social Security retirement options will be different for workers born after 1937, it would be prudent to factor this into retirement planning now. Social Security can help with this planning by providing workers with information about what they can expect to receive in Social Security Benefits. To obtain this information, call the toll-free number-1-800-772-1213-business days, 7 a.m. to 7 p.m., and ask for a Personal Earnings and Benefit Estimate Statement. Forms for requesting this information are also available from Alma Sanger in the LDS Benefits Office.

From the Social Security Courier, June 1992

AGAPE MEANS "GOD'S LOVE"

Abused and abandoned children are not remote statistics that happen someplace else. Unfortunately, incidences of abuse and abandonment of children occur right here in Sarasota and Manatee counties.

In response to this sad truth, the AGAPE Emergency Shelter for children ages birth to 2 years (and in some cases, 3 years) was opened... to provide a safe haven for these poor young unfortunates, to provide for basic food and clothing needs, to provide for hope for tomorrow.

In order to accomplish these goals, AGAPE needs our help. They have an ongoing need for such things as food, clothing, diapers, and over the counter medicines, to name a few. Their wish list also includes such items as rocking chairs, swings and rocking horses.

Many LDS employees have already pledged their support and love to these children. At the top of the list is **Judy Mewes**, who has made it a personal mission to bring as much comfort and love to these little ones as is humanly possible.

Says Judy, "I would like to show you pictures of this warm, lovely home and of some of the beautiful children. But for their protection and safety, I can't."

The next time you're grocery shopping, drop a couple of jars of baby food in your cart along with your other groceries. Never would a gesture be more appreciated!

If you have food, clothing, blankets, etc. that you would like to donate to the AGAPE Emergency Shelter, please contact Judy or one of the following LDS employees who will gladly pick up your donation: Julie Soderquist, Diane Hamel, Chris Lawson, Christine Edwards, Joanie Odzic, Gina Devine, or Jeanne Ruth.

THANK YOU!!





UNITED WAY OF SARASOTA SUSPENDS DUES

Loral employees who support the United Way have been concerned whether their hard earned money is going to the people who really need help right here in our community. Our local United Way Board, sharing that concern, has suspended all dues for 1992 to the United Way of America. Only a tiny portion of local funds ever went as dues to UWA, which provided valuable services such as the annual campaign video and national television advertising. Your local United Way Board is insisting that reforms be completed before United Way of Sarasota will consider supporting the national organization.

Your contribution will stay right here in Sarasota, helping the thousands of people who use the many srvices of United Way funded agencies.

LORAL and the ADA

A major fedreal civil rights law which makes it illegal to discriminate against individuals with disabilities goes into effect at LDS on July 26. The Americans with Disabilities Act (ADA) requires nondiscrimination in employment, public accommodations, and government services. The employment provisions are intended to give qualified disabled people the same opportunities for consideration and employment or advancement that an ablebodied person has. The new law also requires employers to make reasonable accommodations to permit disabled workers to do their jobs.

Loral Data Systems has a long record of helping those employees who have needed accommodations due to physical disabilities. We have examined our application and hiring practices plus the physical facilities to insure we are in compliance with the ADA.

If you have any quesitons concerning the new law please call Phil Luquette, Ext. 5532.



SPOTLIGHT ON EDUCATION... LDS IN THE SCHOOLS



Many of us are becoming increasingly concerned about the state of education locally, statewide, and nationally. Loral Data Systems is in a uniques position to help because we have a wide range of talented and skilled people, technological resources, and a commitment to education.

On April 10, a group of Lemon Bay High School seniors interested in majoring in international business toured our facility. Joe Alvarez conducted an enlightening tour of the plant which included a talk by Bob Heaton on the use of computers in the MIS area, a demonstration of test equipment by Luis Sandoval, an explanation of our Japanese language computer by Tony Carwile, a demonstration of computer aided drafting and design by Ron Basham and an overview of the international sales picture in today's and tomorrow's economy by Phil Wright.

Arlene Grashoff, Career Counselor, stated, "Bringing the students into the real business environment provided our young people with the best possible teachers from the business world in the areas of computers, drafting, testing, international trade and production. If our youth can have teachers like that as they progress through college, their future opportunities in business would be unlimited."

Cardinal Mooney High School's Career and Shadow Day offered another opportunity for LDS employees to share their knowledge and expertise with area students. On April 29, **Beth Kellett**, Organization Controller, **Debbie Graham**, Occupational Safety/Health Nurse, and **Dale Dennis**, Director of MIS each spent the morning with a student interested in a career similar to theirs. The goal of this Professional Career Day was twofold. It provided the participating students with an introduction to a post-high school and post-college environment that would help them in their career planning. Secondly, it offered a positive experience for the adult "host" by providing them with several hours to become familiar with their guest's concerns and aspirations for the future.

For its involvement in science education at McIntosh Middle School during the 1991-92 school year, LDS was nominated as an Outstanding Business Partner by the PALS (Partnership & Alliance Linking Schools) School Volunteer Program. Numerous LDS employees shared their expertise by giving talks, coaching students who were preparing science projects, and serving as science fair judges.

If you'd like to get involved, contact Jean Henry at extension 6945. She'll arrange to get you more information and put you in touch with school representatives.

FYI...FLORIDA TECH

(In order to increase our readers' awareness of the wide variety of educational programs available in our area, PULSE will, from time to time, feature a local school or university.)

Florida Institute of Technology was founded in 1958, primarily to provide advanced scientific education for the engineers and scientists at the Kennedy Space Center. Florida Tech has developed rapidly into a residential university, providing both undrgraduate and graduate education in science, engieering and management. The University offers Ph.D degrees in fourteen disciplines, including management, and master's degrees in forty different fields from applied mathematics to systems management.

Florida Institute of Technology School ofBusiness offers graduate programs on the main campus in Melbourne and at Florida extension campuses in St. Petersburg, Orlando, Kennedy Space Center, Patrick Air Force Base, Stuart and Titusville.

The Tampa Bay Graduate Center in St. Petersburg was founded in 1976. Approximately 150 students are enrolled at the Tampa Bay campus. Instructors at the Graduate Center are professionals working in the area in which they teach. At least 75% of the professors have a terminal degree.

Degree programs offered at the Tampa Bay Graduate Center are:

Master of Business Administration

Master of Science in Contract and Acquisition

Management

Master of Science in Human Resource Management

Master of Science in Health Services Management Master of Science in Systems Management Master of Science in Management

The programs share the following features:

- * Sixteen courses are required.
- * Limited class size.
- * Evening and weekend classes designed for the fulltime working professional.
- Choice of electives.
- * Program may be completed in two years or at the student's own pace.
- * SACS accredited.

Applicants must have a bachelor's degree from an accredited institution. Applicants are evaluated for admission purposes on the basis of their undergrauate records, with consideration given to work experience. For further information, telephone the school at (813) 576-4474.

Contributed by Richard L. Moss, Ph.D, Program Director, FIT

OFF AND RUNNING....

The Loral Running Team competed in its first road race on April 26, 1992 - the 5K (3.1 miles) Law Week Classic on Siesta Key. Participating runners included Sue Nurczyk, Phil VanAtta, Bill Shaw, Dennis Potoka, Scott Zeiner, Carlos Mileham, Larry Foster, Paul Weller, Joanie Odzic and Chris Moler. Sue Nurczyk finished fifth in her age group with a personal best time of 24:42.

On May 9, three members of the team (Joanie Odzic, Larry Foster and Scott Zeiner) competed in the Run for the Turtles 5K Run.

With two road races under its belt, the team is off to a good start. The team is now awaiting the full fall schedule of road races and members are training individually during the summer. Additional team members include Robin Speidel and Karen Hemmerlein.



From left: Scott Zeiner, Joanie Odzic, Carlos Mileham, Phil Van Atta, Sue Nurczyk, Bill Shaw, Chris Moler and Dennis Potoka at the Law Week Classic. Not pictured: Larry Foster and Paul Weller.

USAir SELECTS LORAL FLIGHT DATA RECORDERS

LDS has been selected by USAir Inc., Arlington, VA, to supply 297 solid-state flight data recorders to retrofit part of the airline's existing fleet of aircraft. The new recorders will upgrade the flight data recording capabilities of older aircraft in the fleet to meet government mandates that take effect in 1994.

Deliveries will begin this July and continue through November 1993.

EMPLOYEE ETHICS RESPONSIBILITIES

TO COMPLY WITH LORAL'S CODE OF ETHICS TO REPORT

- IF REQUESTED TO ENGAGE IN ANY ACTIVITY CONTRARY TO THE POLICY
- IF YOU HAVE REASON TO BELIEVE ANY OTHER EMPLOYEE OR REPRESENTATIVE OF THE COMPANY IS ENGAGED IN CONDUCT CONTRARY TO THE POLICY

CHANNELS FOR REPORTING

- HIS/HER SUPERVISOR
- SUPERVISOR'S MANAGER
- PERSON DESIGNATED WITHIN THE DIVISION FOR INVESTIGATING REPORTS

COMPLIANCE MATTERS:

MARK MUSTICO - SPS GROUP

DAVE TAYLOR - ALL OTHERS

SECURITY MATTERS

BILL SHAW - ALL GROUPS

CALLING THE DIVISION HOTLINE #6869

CALLS MAY BE ANONYMOUS. ALL HOTLINE CALLS

WILL BE HANDLED CONFIDENTIALLY. YOU MAY

CALL BACK TO LEARN WHAT ACTION WAS TAKEN.

CALLING/WRITING LORAL CORP. VICE PRESIDENT & CONTROLLER

BOB LAPENTA

600 THIRD AVE.

NEW YORK, NY 10016

(212) 697-1105

CALLING/WRITING INDEPENDENT OMBUDSMAN

ROBERT GREGG

C/O HAZEL, THOMAS, FISKE, BECKHORN, AND HANES

3110 FAIRVIEW PARK DRIVE, SUITE 1400

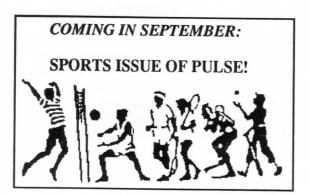
FALLS CHURCH, VA 22042

1-800-842-2651



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ADDRESS CORRECTION REQUESTED Editor: Jean Henry (x6945)



Ken Uglow 1919 - 1992

On June 17th, Ken Uglow, one of the key contributors to the worldwide reputation of "EMR," died in Sarasota at the age of 72. Ken joined EMR in 1958 as Chief Engineer and later became Chief Scientist, reporting to Gordon Sloughter, President and one of the founders of EMR. Ken graduated with honors from the University of Maryland in 1940 in Electrical Engineering and joined General Electric during World War II, designing shipboard radar systems. During this period, Ken spent some time in the famous MIT Radiation Laboratory working with many of the pioneers in radar technology. After the war, he worked at the naval Research Laboratory (NRL) in Washington D.C. as a research engineer and left in the 1950's to form his own engineering consulting firm in Silver Springs, Maryland.

After Ken left EMR, he returned to private research and consulted to EMR, NRL, Hughes Aircraft and others. Ken made many significant contributions at EMR and until very recently, he taught a course, which he designed and wrote, on FM Modulation offered by Loral Data Systems.

As long as the IRIG 106 standards on Frequency Division Multiplexing exist, Ken will be remembered for his work on FM/FM channel performance referenced in Appendix B of the IRIG Standard. Ken maintained a lifelong interest in frequency modulation and there were many discussions over margaritas and burritos about digital frequency detectors.

Although an engineer by education, Ken was the consummate research scientist, relentlessly pursuing problems and evaluating all possible alternative solutions, sometimes to the consternation of management who wanted quick fixes. Over the past ten years, Ken pursued what is, probably, his best technical work on hydrogen masers in conjunction with NRL. Ken's insight and classical technical approaches to analysis have produced some very important results in the reduction of frequency drift in passive hydrogen maser clocks.

Ken will be missed by those of us with kindred spirits.

Bill Waggener June 22, 1992

Noise and Bandwidth in FM/FM Radio Telemetry, IRE Transactions on Telemetry and REmote Control, pp19-22, May 1977