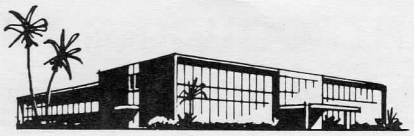
PULSE



SANGAMO WESTON
Schlumberger

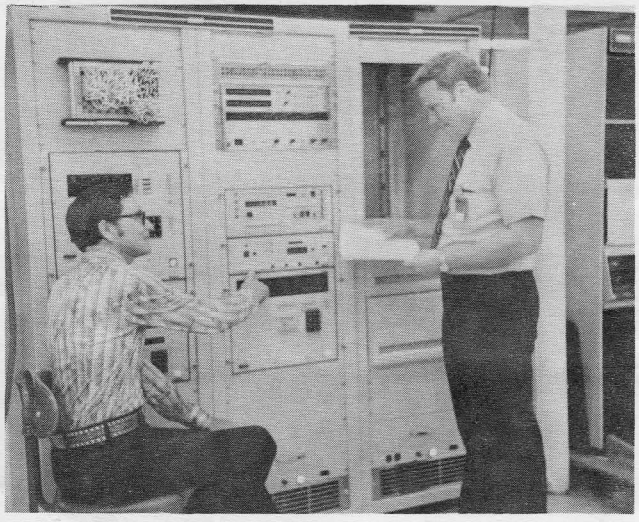
SANGAMO WESTON, INC.
DATA SYSTEMS DIVISION
P.O.BOX 3041
SARASOTA, FLORIDA 33578

NEWS ABOUT SANGAMO WESTON, SARASOTA

Vol. II, No. 10 October, 1980

SYSTEM READY FOR SHIPMENT TO NAVAL AVIONICS CENTER

This Sangamo Weston PCM Telemetry/Computer System, shown undergoing acceptance testing, will be delivered to the Naval Avionics Center, Indianapolis, Ind. The system includes our 700-Series and Model 429 front end, with a DEC PDP 11/70 computer and Televent software.



Project Engineer Hal Roberts (seated) and Ken Burgess, technical consultant to the Naval Avionics Center, during final acceptance tests of system prior to shipment.

The Naval Avionics Center will utilize the system in its Pulse Code Modulation Telemetry Simulation Laboratory. Our equipment will help to test and evaluate PCM telemetry equipment designed and made at NAC or by NAVAIR/ NAVSEA contractors for applications in the Fleet.

QUALITY NOTES

A quality product has four chief attributes:

-performance
-reliability
-safety
-appearance

Let's build 'em that way !

LINDA McKINNEY NAMED DIRECTOR OF PERSONNEL

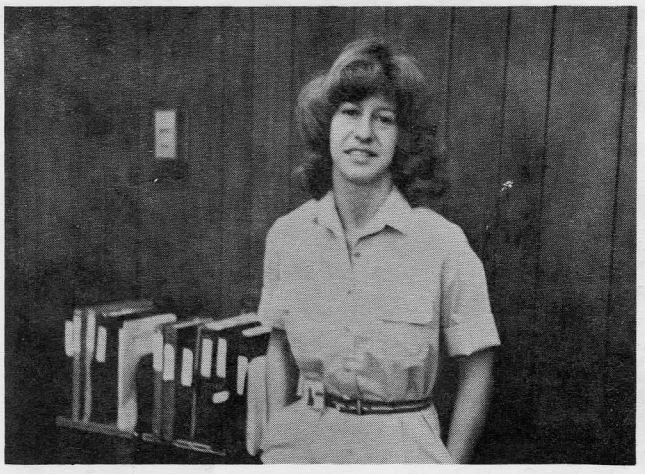
Linda McKinney, newly appointed Director of Personnel for Sangamo Weston's Data Systems Division, comes to Sarasota from Microsonics, Weymouth, Mass., where she had responsibility for the Personnel and Safety functions. The Microsonics facility manufactures quartz crystal filters and oscillators, and is a unit of Fairchild Weston Systems, a sister Schlumberger Company.

Linda's previous Personnel experience was with GTE Sylvania lighting products manufacturing plant in St. Mary's Pa., and she subsequently served as Manager of Professional Placement at GTE Sylvania lighting division's corporate staff.

She holds a B.S. degree, cum laude, in Business Administration/Economics from the University of New Hampshire. Although born in Kalamazoo, Mich., Linda grew up in Plantation, Fla. Her outside interests include jogging, bicycling and working with stained glass.

Until a successor is named at Microsonics, Linda will be doing double duty as the Personnel Director in Sarasota and at Microsonics.

"I'm looking forward to working here and hope to get acquainted with a lot of Sarasota employees at the Picnic on Saturday," Linda McKinney said.



Linda McKinney

An Equal Opportunity Employer M/F/H/V

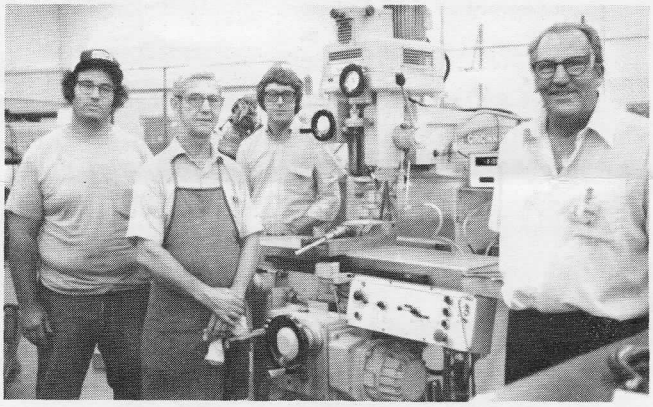
INTRODUCING THE EMPLOYEES IN OUR MACHINE SHOP

Our Machine Shop area, under the supervision of Jim Kiser on the First Shift, and Harvey Bundrick on the Second Shift, is one of four cost centers that make up our Fabrication Department. There are 45 employees in the Machine Shop.

Precision parts for all of our product lines are machined in our Machine Shop. An average of 3,900 piece parts are completed each week. Parts are made from raw castings, rod material (steel, stainless steel, aluminum, titanium and nylon), extrusions and flat metal piece parts. Flat metal parts are sheared or sawed in our Sheet Metal Shop and finish machined in the Machine Shop. Machine shop equipment includes numerically-controlled (N/C) machines, such as lathes, mills and jig bores, plus standard mills, lathes, drill presses and various types of grinding machines.

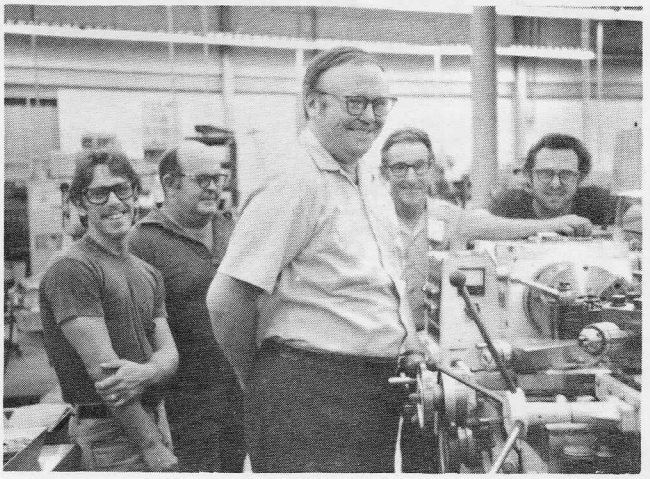
Bob Heaton

Robert L. Heaton
Fabrication Manager

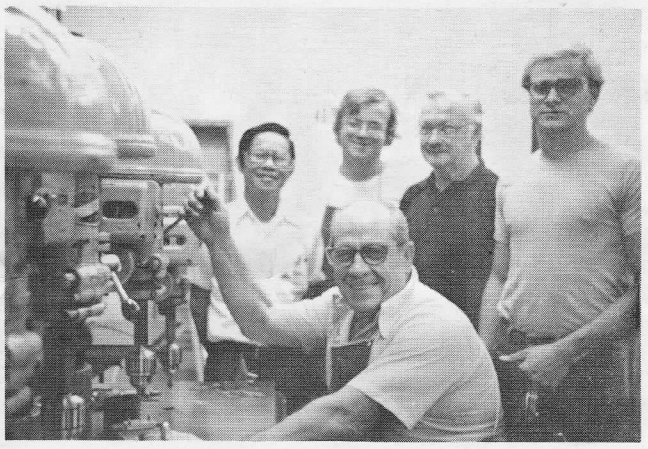


Toolmakers Richard Veigel, Elbert Warren, Supervisor Jim Kiser, and Arnold Papanti. Our Toolmakers build special tooling (jigs, dies, fixtures) for Machine Shop and Sheet Metal production.

Working with mills: Machinists Albert Kamberis, Jeff Lehman, Bill Rainey, Norris Henderson, Dave Cobb, Roland Murray, and Group Leader Tony Bolognia.



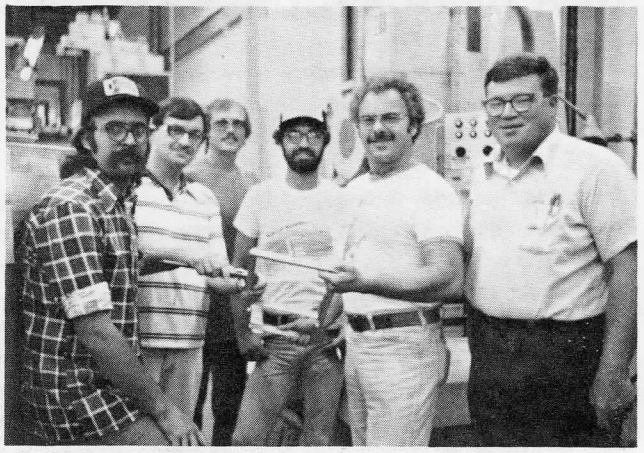
Kim Baronsky, Hugh Mosley, Alex Zukov, John Dezzi, and John Healey work with lathes. (Missing from photo is John Rich.) Machining of small diameter parts to close tolerances usually begins in the lathe area.



Members of the Drill Press group who drill and tap holes for precision machined parts include: Art McWilliams (seated) and Thongvanh Keovilay, Bob Widener, Paul Heffernan (Tool Crib) and Kim Sadlowski. Missing from photo is vacationing Ralph Krueger.

Dave Brophy and Mel Pitsch (in lathes), Joe Fesnak (Tool Crib), and Helen Duthe, Howard Graham and Charles Edinger, of our Drill Press area.

OUR MACHINE SHOP (Cont'd)



Machinists who operate our numerically-controlled (N/C) and computerized numericallycontrolled (CNC) equipment include: Fred Hittel, Ray Rogalski, Gary Hellard, Bill Fincher, Bob (Bubba) Grados, and Bill Kmack.

Supervisor Harvey Bundrick with Johnny Owen, Fred Spreen, Sam Virts, Steve Jelemensky, and Julian Sunderman. Machinists in our numerically-controlled machining area use N/C equipment to machine the metal parts to precise complex configurations for longer production runs.

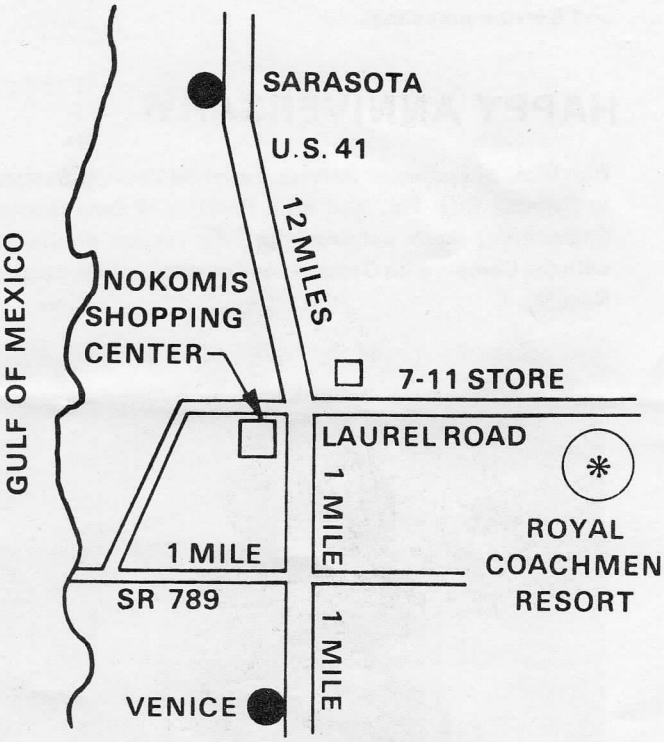
Greg Williams, Group Leader Wayne Reid, Stan Pathway, and Ed Grossheim work with mills. Milling operations include boring, drilling, reaming and shaping precision metal parts.

FAMILY PICNIC
SATURDAY, NOV. 1, 1980

11 A.M. - 5 P.M.

ROYAL COACHMEN RESORT

(ALTERNATE DATE
IN CASE OF RAIN: NOV. 2)



SEE YOU AT THE PICNIC !

ITC PAPERS PRESENTED

Sangamo Weston's Data Systems Division was well represented at the ITC meeting in San Diego, Calif., Oct. 14-16. ITC stands for International Telemetry Conference.

Stu Ulfers chaired a session on Telemetry Computers for Flight Test and Range Applications. Art Kelley co-authored a technical paper with Tommy Tucker, of the U .S. Army, Edwards Air Force Base, on RDAPS (RDAPS is Real-Time Data Acquisition and Processing Systems).

Jud Strock co-authored a technical paper with Holland Bell, of NASA Wallops, on a recently-delivered NASA system. Bill Waggener presented a paper on tape recording technology, entitled "The Effects of Tape Dropouts on Pulse Compression Recording." Other attendees included some of our Sarasota technical Managers and West Coast Sales and Service personnel.

HAPPY ANNIVERSARY!

Ron Vick, of Customer Service, Fairchild Weston Systems, in Panama City, Fla., and Beth Phillips, of Data Systems Engineering, each celebrated a fifth service anniversary with the Company on October 13. Congratulations Beth and Ron.

BETH PHILLIPS

RON VICK

SLEEP STUDIES UTILIZE OUR DATA RECORDERS

Instrumentation data recorders from Sangamo Weston's Data Systems Division are utilized by our customers in many interesting ways. Sleep studies is one of them.

One Texas hospital is engaged in epileptic research and diagnosis, involving sleep studies. Methodist Hospital in Houston is using two 32-channel Sabre IV tape recorders to monitor certain parameters (such as temperature, respiration, blood pressure, brain waves, etc.) while the patient sleeps, for about 8 or 10 hours. The data is rapidly fed into a computer, and the patterns compared to other previously-studied patterns. The data is correlated and a decision can then be made as to the best type of medication for the patient's epilepsy. This Methodist Hospital project involves infants and adults, according to Steve Hoff, of Data Recorders' Houston area sales office.

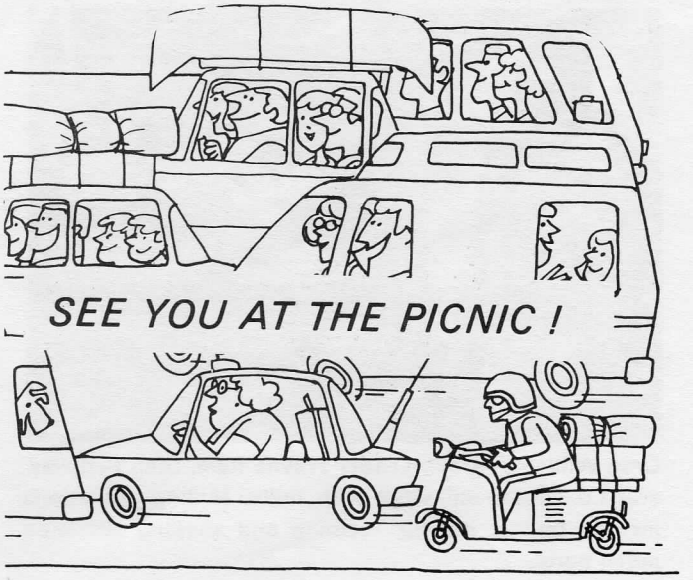
Other sleep studies are also being conducted with the assistance of our data recorders at a VA hospital in Oklahoma and at Baylor University in Texas.

CONGRATULATIONS !

TAR GOES (Data Recorders Test) and his wife, Joe Ann, announce the arrival of their son, Paul Maurice, born on September 3, at 5 lb. 5 oz.

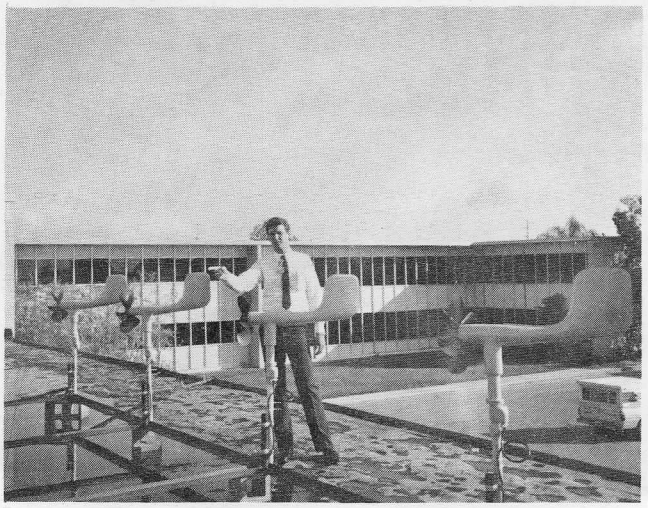
TOM TATMAN and his wife, Glenda, are the proud parents of their first child, son Christopher, born September 21 at 7 lb. 10 oz., in Baltimore. Tom is in Customer Service for Fairchild Weston Systems Inc., and is now based at Fort Knox, Ky.

SANDY HUTSON (Inspection) and her husband announce the arrival of Loren Lamar Hutson, Jr., on Oct. 5, weighing in at 7 lb. 6 oz.



WIND SHEAR SYSTEMS UNDERGOING TESTING

Those whirling fan-like instruments on the roof of the Engineering section of our building are anemometers--part of the Wind Shear Alert System which our Industrial Systems group has sold to the Federal Aviation Administration for installation at various airports in this country.

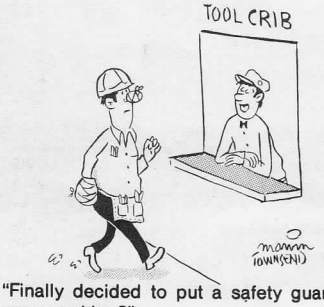


Chris Osterfeld with roof-top anemometers.

The anemometers indicate wind speed and direction and form part of two Wind Shear systems undergoing qualification and validation testing before the initial delivery of the equipment. The month-long tests begin in late October to verify the system's reliability to the customer's specifications.

The FAA has ordered 34 Wind Shear Alert Systems. The first system will be shipped to the Cincinnati airport, with delivery scheduled for mid-December and subsequent shipments continuing on into 1981. Each Wind Shear Alert System consists of six anemometers to indicate wind speed and direction, six remote monitoring units, VHF radio communications link to the control tower, and a DEC computer to process the wind data. The first such system from Sangamo Weston was installed at Tampa Intertnational Airport in June, 1977.

Five training courses are also being conducted in Sarasota for FAA personnel who will be operating and maintaining the Wind Shear Alert equipment.



"Finally decided to put a safety guard on your machine?"

QUESTIONS & ANSWERS

Q. How many employees have joined our monthly Stock Purchase Plan?

A. Ninety employees have elected to have weekly payroll deductions toward purchasing Schlumberger stock. The Company pays the brokerage fee for the stock purchases. Call Wendy Schroyer, Ext. 526, if you have questions.

Q. When do I become vested in the Growth Plan?

A. Employees are partially vested in the Schlumberger Contributory Investment Growth Plan after four years with the Company. The schedule is:

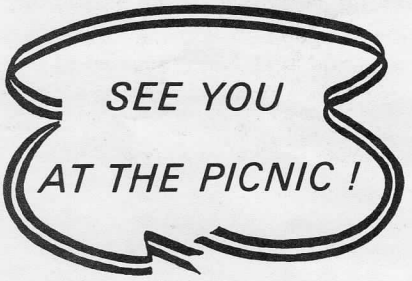
After This Many Years of Service	Vesting in Company's Contribution Portion
4	One-fifth
5	Two-fifths
6	Three-fifths
7	Four-fifths
8	Fully

Q. How many employees gave blood at our Blood Drive in September?

A. Sixty-seven employees were successful blood donors, out of 110 who offered to give. Heartfelt thanks to each and every one!

Q. How soon before retirement should I talk to Personnel?

A. Our Benefits Coordinator, Wendy Schroyer, would like to see you six months before you actually retire, to discuss the various options you have. Please call Wendy to set up an appointment -- Ext. 526.



ATTEND WORKSHOP

A number of our employees attended a recent communications workshop for secretaries and office personnel, sponsored by the Sara-Keys Chapter of the National Secretaries Association on Saturday, October 11, in Sarasota. Our own Berenice Henderson, Secretary to General Manager Kent Morgan, is President of the local NSA Chapter.

Attendees who heard tips on improving listening and communications skills were: Shirley Buerge, Norma Davis, Ruth Erlandson, Johnye Evans, Laurie Gaines, Bonnie Grimes, Berenice Henderson, Baba Marrero, Alma Sanger, Winnie Subatch, and Lorraine Tominelli.

HIS MUSHROOM STUDIES LED TO MYCOLOGY ARTICLE

Robert S. Williams' interest in studying mushrooms as a serious hobby has led to his becoming a published author in the field of mycology. Robert is a Senior Principal Engineer in Telemetry R & D.

His seven-page article, "A Key to Some Boletes of the Deep South," provides a technical guide to the person who is interested in the serious study of mushrooms in the Florida area. The article appeared in "McIlvainea," a journal published by the North American Mycological Association. "A mycologist is one who studies fungi. A mycophogist is one who eats them," Robert explains. "We have eaten 94 different kinds -- and no, we have never been poisoned."

Robert and his wife, Rosemary, of Contracts Administration, recently used their vacation to attend a national mushroom foray in North Carolina. This foray was an opportunity for amateurs and professionals to meet and to gather and identify mushroom specimens. "There were several hundred mushroom pickers from all over the country. About 400 species were identified, and a few new ones were found," Robert reports.

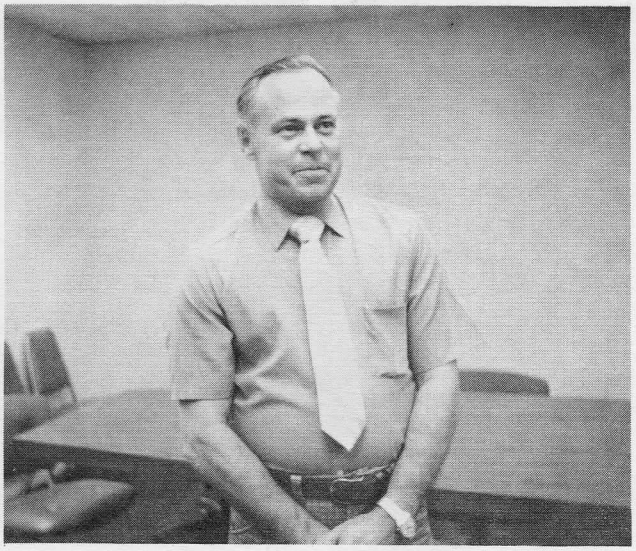
Here are Robert's answers to some of the most frequently asked questions:

What's the difference between mushrooms and toadstools? The words mushroom and toadstool have no scientific meaning, but are often used to indicate edible and poisonous fungi. The only way to tell the difference is to learn to identify the various kinds in the same way you learn how to tell a bluebird from a mocking bird. Mycologists often use the general term "mushroom" to indicate any of the larger fungi, edible or otherwise. "Toadstool" is seldom used, but is understood to be the same as a mushroom.

There are approximately 5000 species of mushrooms in North America. Only a small percentage are either edible or poisonous. The others are too tough, too small, or have a disagreeable odor or taste. But the small number of poisonous species provides no safety, because many are large, attractive, and fruit in great numbers. The large, showy white mushrooms seen on Sangamo Weston's grounds during wet months are poisonous.

Because of the great number of different species, it is impossible to know them all. Mushroom identification in Florida is particularly difficult because of the scarcity of literature for our region.

Mycologists almost always refer to mushrooms by their universal scientific names (such as **Chlorophyllum molybdites**) for the large white poisonous ones on our grounds). This is a practical necessity because common names are associated with relatively few species, and vary according to the parts of the country or foreign languages.



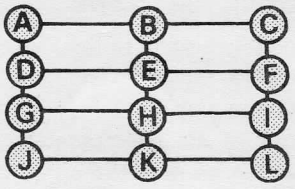
Robert S. Williams

"We don't grow mushrooms," Robert says, "but if you are interested, there are a number of growing kits, including several of the gourmet oriental species."

A final note from Robert: "There are old mycophogists and bold mycophogists, but there are no old, bold mycophogists."

QUALITY QUIZ

by K. Kivenko



The above diagram depicts a missile complex somewhere in Maine. The safety inspector's job is to inspect all 17 tunnels connecting the 12 launch sites. The sites are one mile apart and he can start and finish where he likes. What is the shortest distance he need cover (even if he has to go through some tunnels more than once) and what is the shortest route?

Give your answer to a Quality representative. Answers must be received by midnight, Nov. 10. All correct answers will be collected, and a drawing held to select three winners. The **three winners** will receive a free lunch in the Cafeteria. The correct **answer** will be published in the next issue of PULSE.