

# HALINCO h-LIGHTS

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From the Notes of E.F.S. Of the 15 Kinetic Vapor Pressure Analyzers that have been sold since we started delivering them last year, two of them have been in operation in large California refineries long enough for us to have performance records on them. One analyzer has been in operation for more than 6 months and is now being used on control. It was purchased as an integral part of a Foxboro-Waugh blending system and was installed with control functions included in the recorder. The Foxboro indicating pressure and temperature transmitters (electrical transmission) are combined with a Foxboro two-pen recorder in the control room for indication and record. The recorder is provided with high and low alarm functions on the temperature pen to signal if the vapor pressure measuring temperature deviates from 100° F. The vapor pressure pen has a control function cascaded to the butane flow recorder controller. The fast response time of the analyzer (8 seconds) combined with the cascade system provides a positive control function. Changes in product vapor pressure are quickly corrected, allowing the refinery to maximize butane usage without exceeding product specification. The second analyzer is continuously providing vapor pressure data for maximum blender payout. It was supplied with pneumatic transmitters and is monitoring the blender product from the first of the new in-line type and one of the most complete computer controlled gasoline blending facilities in the country. The blending system utilizes a Packard-Bell computer and has been in operation for 3 years. During the four months that this analyzer has been in operation, more than 100 laboratory samples were drawn and compared with the analyzer results. The conclusion of the refinery is that the analyzer is indicating Reid Vapor Pressure in the range of 7 to 14 RVP with accuracy.

Both of the above analyzers are operating with little or no maintenance and are performing very well according to personnel in charge of blending operations. Using our K.V.P. Analyzer in automatic control, a refiner who blends 10,000 barrels per day can realize a saving of \$200 per day by bringing the blend vapor pressure 0.2# closer to maximum specifications.

American Institute of Chemical Engineers. Mr. Schimbor and Stuffy will be gone the week of March 10th to the Second Petrochemical and Refining Exposition sponsored by the AIChE in New Orleans this year. They are going to show a 50% Analyzer, a Kinetic Vapor Pressure Analyzer, an Initial Boiling Point Analyzer and a Laboratory Viscometer. Mr. Schimbor will spend an extra five days in the Houston area before returning home.

Medical Instrument History. Hallikainen Instruments branched out into the medical instrument field when Norman Waner joined the company in January of 1955. He brought with him his Scientific Laboratory Apparatus Company (SLACO) which had been in the business of manufacturing tube heaters and tube buzzers for use in medical laboratories. The heaters are used in testing blood samples and the buzzer provides a means of stirring the sample while it is being tested.

In 1958, backed by funds from the Presbyterian Medical Center Research, M. L. Bramson arranged to do his developmental work using our facilities and licensing us to build and sell the final models of his instruments. His original project was the Membrane Blood Oxygenator which has been set aside several times for work on other instruments which the Research Center considered to be of more immediate concern. Funds were provided by the National Health Institute and the American Heart Association to finance the design by Dr. Osborn, Dr. Gerbode and Mr. Bramson of a completely new Rotating Disc Oxygenator using the same theory as the Kay-Cross unit. The new design, for a given priming volume, has twice the oxygenating capacity. Now built by Hallikainen, it was first sold in 1960 and to date there are about 20 of these units in use. The Heart-Lung Machine was designed in 1961 and incorporates our disc oxygenator with a weighing apparatus, a pump and several other devices which add to the precision of its operation. That same year work was completed on the Synchronous Electrocardiac Massage Machine developed in conjunction with Dr. Harkins and used for external heart massage. In 1962 a small portable resuscitator was designed using the same mechanism as the Heart Massage Machine. It is to be used by emergency teams as an immediate measure until the patient can be moved to the larger machine.

With all of these projects completed, the medical research funds are again being applied to work on the membrane oxygenator.

Production Schedule. If you haven't been in Bill Stairs' office recently, you probably haven't seen his new chart arrayed with bright colored pegs, strings, title strips and red clips. By means of this board, Bill can tell which jobs are on schedule, behind schedule and why. It is saving him a quantity of time and note making and avoids the possibility of anything being overlooked.

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Another Lady Engineer. Flo Sheehan is now writing operating instructions for the engineering department. She is well prepared to do this, as she received her bachelors degree in mechanical engineering from Purdue in 1948 and a masters from the Illinois Institute of Technology in 1950. Her work experience includes working in the plant engineering department at Lockheed in Sunnyvale and 10 years of teaching engineering and math, the last three years of which were at California Polytechnic College in San Luis Obispo. Flo has always been an outdoor girl. Her father worked in Akron, Ohio, but they lived on a small farm near Akron where they farmed just enough for their own use. Flo was valedictorian of her high school class, and her later academic achievements prove that one can get a good education in a country school. She and her husband, Jim, are both sports fans, they have a 20' cabin cruiser that they take out on the bay, they enjoy swimming, and they spend many vacations camping. Flo is also an avid reader, and not much that is printed escapes her notice. The Sheehans now live in Berkeley.

From Chorley, Lancashire, England. Applications engineer Arthur Alston landed in Oakland direct from England. Originally from Chorley, he began his education at Sunderland Technical College, but he left to join the service in 1945 and spent 3 years in the Mediterranean area. After his discharge he resumed his studies at Manchester University where he graduated with a major in physics and math. He served his graduate apprenticeship at Marconi Wireless and Telegraph. His work background includes 5 years as sales engineer for Avery Scales and Testing Machines and 3½ years with Elliott Brothers in London. During his last two years with Elliott, he was assigned to Hallikainen Instruments Ltd. This connection with an American company coupled with pressure from relatives in Calgary, B.C. convinced him that he wanted to see what America had to offer. The fates brought him into Oakland Airport just the day before Bill Breyer unexpectedly resigned. As Arthur already had a working knowledge of our instruments, he was a made-to-order replacement. For non-engineering activities he enjoys tennis, skating and soccer and at one time conducted the chorus of a Gilbert & Sullivan opera group. He expects his wife and three children (ages 7, 6 and 3) to arrive from England on March 18th.

Auditors. The charming smile and 6'5" frame of Egon Von Kaschnitz will be back on the premises this year periodically until the audit of the company books by Arthur Young & Company is completed. An assistant, Paul Frishkoff, is working with him.

From the South. That southern accent you have been hearing around the plant these days is from Jacksonville, Florida and belongs to Virginia Carpenter. She graduated from the U. of Tennessee as a Home Economics major and has been working in business ever since. Before coming to work for us she worked 9 years for the Snap-On Tool Corporation. Her job classification was District Office Manager, and they transferred her to several different district offices as the need arose for a capable manager to reorganize and get the work done. Virginia has taken over the job of assistant in the accounting department for Mr. Martin. She and her husband decided to remain in California because his relatives are all here; however, they plan to take a trip back to Florida sometime this year to sell their home and car and close up all of their business in Jacksonville. Virginia knits and sews in her spare time and goes fishing and golfing with her husband. The Carpenters spend their vacations traveling to different places. They have covered every State in the U.S. and have included most of the national parks and historical points of interest in their schedule. They are currently living in Albany.

Billing Department. As we might have guessed, Mr. Schimbor has hired another redhead. Betsy Randolph is now doing the billing and filing and is learning all about the sales department routine. Betsy lived most of her school years in Sacramento where she graduated from James Marshall High. She later attended Chico State College for a year where she majored in general science. She worked the next year at Aerojet General in Sacramento until her father's business as an architect brought the family to the bay area and Betsy went to work for U.C. in Berkeley. She was married last December 28th. Her husband, Ron, is an electronics salesman for Cass Altshuler Electronics in Oakland. Betsy and Ron both like to keep busy. She does her own interior decorating, sews, and refinishes furniture while he rebuilds his own automobiles and does photographic finishing. They both enjoy swimming and water skiing and plan to spend the next 8 months building their own 16 foot inboard motor boat. They are also looking for a house to buy before the end of the year. Sounds like a busy schedule! Good luck! The Randolphs are currently living in Oakland.

The Zolmans are expecting their first baby sometime in August. Rae Marie plans to continue working through the month of June.

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