

HALINCO h-LIGHTS

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page one

Let's Get Technical - Color Alarm

Our Color Alarm is used in many refineries and chemical plants throughout the world. In the process of petroleum refining, frequently the presence of a soluble contaminant or undesirable sedimentary material will be indicated by the product being darker or lighter than normal in color. If such impurities occur during a refining operation and are detected in time, the considerable expense of a rerun can be avoided.

The Color Alarm is one of our less complicated instruments. A small light bulb, a sample cell, two phototubes, a simple amplifier and a relay are housed inside an explosion-proof case. A phototube is an electronic valve which produces a different electrical output depending on the intensity of light falling on it.

The two phototubes are wired so that if the light shining on both of them is the same, there is no electrical output; however, if the light reaching both tubes is not equal, the difference creates enough voltage through the amplifier to trigger an alarm switch. Inside the Color Alarm, light from the bulb shines on the first phototube through a glass sample cell carrying the oil of specified color. Light from the same bulb shines on the second phototube through an adjustable aperture. This opening is adjusted to equalize the intensity of the light with the light passing through the oil in the sample cell. The Color Alarm is connected to the process line from which it draws a continuous small sample through the sample cell. If the color of the oil in the stream changes, it will vary the light falling on only the first phototube. This creates an imbalance between the phototubes, and the resulting electrical output sets off an alarm light or siren.

When a refinery is using a Color Alarm, the attendant knows immediately when "off specification" product passes through and he can shut off the line and avoid the possibility of contaminating thousands of gallons of oil in storage tanks. The monetary saving resulting from the use of this instrument can amount to thousands of dollars per year.

The Instrument Society of America national meeting will be held in New York on October 14 through 18, and Hallikainen Instruments will be well represented. Bill Breyer left on Sept. 23 and has several calls to make before he meets Mr. Hallikainen in Chicago on October 9 to fill several more business appointments. Ed Schimbor and Norm Waner will leave from here October 9 and stop in Philadelphia before going to New York. Our display booth at the show will have an I.B.P. and 20% analyzer, a Lab. Viscometer and a Kinetic Vapor Pressure Analyzer. Norm Waner is chairman of the committee on Physical Properties Measurements. Everybody in the instrumentation business will be there to check on their competitors.

Five-Year Employee. Julius Rosin is another employee who came to us "just off the boat", this one from Germany. Although he was born in Poland, he became a German at the age of 10 -- he didn't go to Germany, Germany came to him (the Germans took over his part of Poland). He finished school and apprenticed to a watchmaker for 3½ years until he was drafted into the army. After they discharged him, he finished the war working for the Telefunken Company in their electronic department. At the end of the war when he was free to do as he pleased, he went to work for the Voglender Camera Company until an uncle in Richmond sponsored him to come to the U.S. As senior employee in our electronics department, Julius is our authority on delicate jobs. He knows all about all of our Resistance Thermometers and probes and, because of his experience as a watchmaker, is able to work with the very small tools required in assembling tiny parts. He has also learned all of our electronics assemblies so that any job can be assigned to him and he can complete it with no supervision.

Julius is a baseball fan -- went to most of the games this year and likes to spend his time enjoying life outdoors. He has a motor boat and trailer house and spends week-ends and vacations camping with his family. He tinkers with his watchmaking in his shop at home and repairs watches for his friends. The Rosins live in Richmond and have two sons ages 10 and 14.

M. L. Bramson spent 4 days attending the San Francisco Heart Association Symposium at the St. Francis Hotel. He had his heart massage machine and portable resuscitator both on display. He hasn't told us if there were any cases of overenthusiastic participation which necessitated his using his equipment. We hope he picked up an order or two.

New Instrument. We have signed a licensing agreement with Sun Oil Company enabling us to manufacture a 50% Boiling Point Analyzer that was developed in Sun's laboratory.

Accounting Department. Steve Schulte will be leaving October 5. He is going into partnership with two other accountants in business in Marin County. Barbara Goode, the company's trusty "girl Friday", will be filling in as accountant until Steve's replacement arrives the last week in October. Steve will be back for a day or two to finish up a few details.

Monty Montgomery is United Crusade chairman and will be around collecting funds this coming week. George Black is assistant chairman in charge of collections in the shop.

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page two

"Mist Blue," anybody? Just ask Winston "Arkie" Young who has been painting everything "mist blue" since he came to work here last month. He finds the color quite pleasant after ten years of painting everything red and white for the Carnation Milk Company. He grew up in Corning, Arkansas where he graduated from high school just in time to spend 4 years in the Navy during World War II. "Arkie" spent most of this time as Bos'n's Mate 3rd Class on the U.S.S. Chicago until they torpedoed it out from under him and dumped him in the Pacific -- he had to finish the war on another assignment. After the war he went to work for the Carnation Company in Houston where he learned the painting trade. They transferred him to Seattle, to Tulsa, Oklahoma and back to Seattle setting up paint shops in their plants. Just before coming here, he worked for Boeing in Seattle doing the interior decorating on 707 Passenger Jets. He decided to come to California for the sunshine. He is an avid fisherman and enjoys sports. He played baseball in the Navy and played semi-pro ball in the Seattle City League. His two teen-age daughters now live in Washington.

U.S.N., Ret. That sea-going sailor (you name the place, he's been there), Carl Hammons is now working in our assembly department. He started his career in the world when he graduated from high school in Kansas City and came to Santa Monica to work for his uncle in his automotive garage. While there, he took a course in business and accounting at Santa Monica Jr. College. He then went to Coyne Aviation School and got himself a job at Douglas Aircraft, but it didn't last long -- in 1942 duty called and he joined the Navy. They turned him into an authority on structural mechanics and hydraulics. Last June, after 21 years service on more ships than I have room to list, he retired as a senior chief from his last assignment on the Ranger. "Hamm" enjoys all sports, is an ardent baseball fan, and likes to spend his vacations camping in the mountains! He and his family have lived in Alameda for the past nine years while he worked out of the Naval Air Station there. His wife, an ex-designer of dresses, makes most of their children's clothes. They have a son, age 9, and three daughters, ages 16, 14 and 4.

The New Man in the Machine Shop. Frank Summer comes to us with some 20 years experience in tool and die shops. After graduating from high school in Lansing, Michigan and spending three years in the 8th Field Artillery in the Hawaiian Islands, he went to work for the Reo Motor Company as an apprentice. Four years there convinced him that he wanted more technical knowledge, so he attended the General Motors Institute of Technology in Flint and qualified himself for a job in the tool room at the Oldsmobile plant where he remained for

eleven years. Then the resort business lured him to Northern Michigan where, after the business was established, his wife could handle it during the day while he worked as a tool maker. Seventeen years of a paying business ended when the super-highway and a new bridge came through and devaluated the area for resorts. The Summers sold out, came to California and bought a home in Richmond. Frank and his wife have both become handcraft experts, as the snowed-in winters gave them plenty of time to spend at it. Frank also admits to painting landscapes in oil or watercolor depending on his mood.

Another Resort Man. Douglas Beverly has been hired temporarily to help catch up on things in assembly. He is an Oakland man, spent two years as a machinist in the Army Corps of Engineers, 4 years with the East Bay M.U.D. and 2 years with the University when they were installing the Bevatron. For the past four years he and his wife have owned DeSmits resort in Guerneville. It covers three acres of land, has 24 cabins, a trailer camp and a private beach. Doug takes temporary jobs during the slow season. His side interest is target practice -- bow and arrow, rifle or pistol. The Beverlys and their son 7 and daughter 11 live in Guerneville. Doug rents a room in Albany and spends week-ends with his family.

Engineer. Just over from London, Roger Brown is now working in our engineering department. He grew up in Manchester and went to De La Salle College. However, he quit to join the R.A.F. and trained as a navigator during his 3½ years of service. After he left the service, he worked three years with Cooke and Stevenson, strip steel processors and a year with Stead & Company, tool manufacturers. Determined to finish his schooling, he entered Sheffield University and completed his bachelors degree in electro-mechanical engineering. He then worked a while for Rolls Royce before taking an assistant professorship at Borough Polytechnic in London. His two sisters and a brother, all living in Menlo Park, talked him into coming to the U.S. For recreation he enjoys music (classical), electronics (hi-fi), the theater (Shakespeare), and sailing (had a 14 foot sailboat that he used to take out on the Thames). He enjoyed vacationing in France, Spain and Italy, but will have to choose somewhere closer at hand now. His parents still live in Watford near London.

Horst Hermann is back from the Army and is working for Leung in the test room.

Johann Wolf is on his way back to Germany. He and his wife may remain there to live.

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