



AUTOMATIC MACROCOMBUSTION APPARATUS

Of the numerous analytical methods employed in a petroleum or chemical research laboratory, the determination of carbon and hydrogen content for an infinite variety of complex sample compounds still ranks as one of the most demanding and continuing research requirements.

While the Model 1325 Single Automatic Macrocombustion Apparatus is relatively new to most of us at this company, development of the techniques used in the instrument can be traced back to the early 1900's and before. Throughout its history, many scientists, engineers and research organizations have contributed to the various stages of refinement. During this period the design philosophy was mostly directed toward the reduction of sample analysis-time and maintenance problems, increased operator safety, reduced operator training requirements, and an increased range of applicability in the laboratory. --Needless to say, there were probably more than a number of minor laboratory disasters during these early years of experimentation and development.

These basic objectives, however, were finally met in the Shell Development Company design later licensed to and produced by Hallikainen Instruments as the Model 1237 Dual Automatic Macrocombustion Apparatus. The present Model 1325F Single Automatic Macrocombustion Apparatus incorporates the latest operating features in addition to a complete redesigned chassis.

---by Gordon Floyd

Since our last issue of the paper, we have added several people to our staff. Due to the curtailment of operations at Beckman Instruments, we hired two of their people. Brenda Johnson, our receptionist, and Joyce Parker in the Assembly Department. Arthur Alston rejoined our staff for the Systems Project. Our help that came from GPE has been more than pleasant; Milton Bricker who is working with Mr. Waner in Systems. Uncle Sam also came to our aid with Paul Sartor, a Draftsman. Bill Jones and Frank Simmons are our new employees in the shop. Bill is working with Horst in the shop, and Frank took Arnie's job as Shipping Clerk when Arnie went to his new position in the test department. Israel contributed their share by helping the Accounting Department with Ruth Sternfeld. Our part-time staff comes to us from Contra Costa College. They are Wally Posner in Accounting and James Young as our competent delivery boy.

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No policeman will pull you over; no moving violation will hike your insurance rates; but there is possible wear and tear on the work force if you drive faster than 5 or 10 miles per hour in the Hallikainen parking lot. Ever wonder why limits are put on speed? It's not to keep you from getting home to dinner, your family, or your date----it's to make sure you do get there, particularly the distance from the building to your car.

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Picnic plans go forward at great pace. The date of the annual Employees' picnic is Saturday, June 14. The picnic will be held on Angel Island with Mr. Hallikainen in charge of the transportation.

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As everyone noticed we had a visitor from Teijin Shoji Kaisha, Ltd. at the beginning of the year. Mr. Sato lived with my parents, Mr. & Mrs. J. H. Francis of El Cerrito, for several weeks. Fumiko Takeshita was kind enough to entertain him during his stay. Mr. Sato's company sent him over here for a training period, so that when he went back to Japan he could train his co-workers. From what I could see, he was very impressed with the hospitality that was afforded him.

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Tom Clark, Sales Manager, has appointed several new representatives. They are:

Ralph E. Benner, Ltd. in Vancouver, B.C.,
Industra Company in Minneapolis, Branom
Instrument Company in Seattle, J. F.
McNamara Association in Arcadia California
and Leroy E. Roberts located in Boca Raton,
Florida. We wish them all the best of luck
in selling our instruments.

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Hallikainen Instruments is adding a new product line, Diacon Instruments, whose major instrument is the moisture analyzer. This instrument measures the moisture in a liquid. Mr. Grace, who arrived here April 30, will represent this line at our plant. He plans on staying with us approximately a year. We will have more about him in the next issue.

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Another Department has sprung up at H.I. The new Medical Department will be headed by Mr. John McAdams. I haven't found out too much about Mr. McAdams yet since he has been in and out of the office so much. I do know he is from Los Angeles but that's about it. More about him also in the next issue.

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When someone asks me where I work and I say H.I. their next question is "who, where, and what do they make?". Many of the people that ask are truly interested, and I really don't know enough about the various instruments to explain it to someone else. Because of this we are adding another aspect to the paper. With each edition of the paper you will receive a brochure on an instrument; with this issue you will also receive a folder in which to keep them. In this way the employee can better understand our instruments and will be able to show his family and friends a little bit about his company.

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The Engineering Department will certainly miss their secretary and "Hippie" Draftsman when they leave. Gene Nakano has added so much to the whole company that I am sure everyone will miss him. He has decided to wander around Europe while he is still young enough to take full advantage of it. Although Lee hasn't been here long, she will be leaving a long list of admirers. We all wish them the best of luck in their future endeavors.

Scotland is the birthplace of our Production Manager, Bill Stairs. Mr. Stairs is one of the new 10 year "Old Timers"; June 28, 1958 was his starting date with H.I. Before starting with H.I. Mr. Stairs was with Beckman Instruments and Tracer Lab. Watching baseball and college sports, listening to good music, reading and of course his children occupy his time after hours. Mr. Stairs is another H.I. employee that has lived all about the country. New York City, Florida, Chicago, Los Angeles and San Francisco are just a few of the places he has called home. He was the first Production Manager at H.I. and therefore the only.

After interviewing Heinrich Schuetz, I was thoroughly amazed with the fact that one person could be so interested in one subject...having a great time during his life. Not being able to get the details from him, I cannot give you the exact data of his adventures, but I can assure you from the expression on his face they were really something. When Heinrich stepped off the boat from West Germany, he weighed about 145 pounds; this is quite a change from the 200



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pounds he weighs in at now. This should be considered as a direct compliment to his wife for her cooking. Heinrich has been with H.I. since August 21, 1958, which makes him another "Old Timer" from the Shop. Heinrich is now considered by his superintendent as "one of the most efficient and hardest working men I have". Starting from the very bottom as a Shophelper, he has worked his way up to journeyman Machinist. From the comments I received about Heinrich from his co-workers, I am sure he must be the greatest morale booster H.I. has ever had. When walking through the shop, you may hear someone singing a little off key..... that's Heinrich!!!!

Light Heavyweight Champ was the title Bob

Peacock held in Canada, his native country. Bob is H.I.'s painter. His painting career started many years ago when he started painting kids' bicycles in the neighborhood for \$1.25. His life-long dream, however, is to be a race car driver. He has always worked on cars, and worked as a pitman for a while during the races. Bob and his wife have two daughters who are both married. Bob is definitely an out-of-doors type of man. Almost every week-end he and his wife go fishing and camping. Bob's proudest possession is his grandson, who Bob describes as "a real corker!!". Bob is another of the 5 year "Old Timers".

Florence Fields, the "Sweetheart" of H.I. has been here 5 years since last Valentines Day. Who could have resisted her charming nature when she told Mr. Kaufmann, "Can I be your Valentine?". Flo-Flo has been the girl behind the man in the Accounting Department through many others in the Department who have come and gone. Before working for H.I. she was an accounting clerk for Marchant Business Machines in Oakland. When Marchant headed East, Flo-Flo headed for Berkeley and H.I.

Antti Fagerroos is another H.I. employee that has been here for 5 years. Besides working in the assembly department, during the last five years he has also held the title of "company photographer". His fame as a photographer has spread across the machine shop; last year he took pictures at Bob Peacock's daughter's wedding. Camping out-of-doors is another of Antti's pleasures; he and his wife have gone on several long camping trips across much of the United States. Antti was born in Finland then moved to Sweden and from there he left for Canada. He met and married his wife in Canada and then moved to the United States; he has since then made his home in Oakland. Before coming to work for H. I. in 1964, he worked for another company, Kleer-Kleen Manufacturing Company, in Hayward.