

ONLINE

DIGITAL EQUIPMENT CORPORATION

MAY 1970

Tuition Plan Liberalized

Two significant changes were recently made in DEC's Tuition Refund Plan:

1. The \$450 annual limit for financial assistance from DEC has been eliminated. The Company now provides full tuition reimbursement for employees who meet the other requirements of the plan.
2. The Company will also pay for necessary and required registration and laboratory fees, under the conditions of the plan.

Specific details on the DEC Tuition Refund Program can be obtained through your supervisor.

Record Quarter

Digital Equipment Corporation's third quarter sales and earnings were the highest in its history. Based on preliminary unaudited figures, the company reported sales of \$36,200,000, resulting in earnings of \$4,075,000 or \$.43 per share based on the average number of shares outstanding.

The quarterly results represented a 60 per cent increase in sales and an 86 per cent increase in earnings over the same period in Fiscal 1969. Per share earnings for that period were \$.24 restated.

Results for the first nine months of Fiscal 1970 included sales of \$97,000,000 and earnings of \$10,364,000, up from \$60,984,000 and \$5,644,000 restated at the same point in Fiscal 1969. Earnings during this period were \$1.10 a share, compared to \$.63 for the first nine months of last fiscal year.



Dressed in uniforms, which they designed and made themselves, Secretaries from Digital's U.K. offices, have been helping to man booths at trade shows. Left to right, standing, are: Jennie Davis (London), Margaret Petty (Reading), Monica Haglund (London), Jill Smith (Reading), Carol Barnett (Reading), Iris Bule (Reading), Marion Billing (Reading), and Sandra Netval (Reading). Seated: Lesly Wallis (London). (See Story on Page 3)

Review Board Expands

The Engineering Review Board recently increased its membership in recognition of an increased need for representation from other engineering disciplines.

According to Jerry Butler, Chairman of the new Board, the first Board, formed more than two years ago, was, for the most part, electrical engineering-oriented: "We believe that it is necessary for the Board to have insight in other areas of engineering such as field service, manufacturing, and special systems."

Members of the new Board, which met first in February, include Jerry as chairman; Graydon Thayer, secretary; Don Zereski of field service; Jim Cudmore of manufacturing engineering; Ed Correl of mechanical engineering; Dave Chertkow, Dick Best, and Al Kotok of electrical engineering; Nick Wells of special systems; and Russ Doane of applications engineering.

To permit new Board members to participate, several members of the former Board gave up their seats. The outgoing members, who helped to make the Engineering Review Board as effective as it has been, include Joe St. Amour, Roger Cady, and Bob Hamel.

(Continued on page 6)

News From Around The World...

Japan...



DEC's Exhibits at the 1970 Japan Electronics Show in Tokyo drew crowds of curious and interested people. Our staff had all they could do to answer the hundreds of inquiries about the exhibited PDP-8/L, modules, the KV Graphics Display and the Computerlab.

In addition, the following companies exhibited DEC equipment in conjunction with their own systems: Teradyne: a PDP-8/1 and a PDP-8/L, with integrated circuit testing equipment; General Radio: a PDP-8/L with a logic circuit analyzer; Takeda Riken: a PDP-8/L with instrumentation; and Sony/Tektronix: a PDP-8/1 with display graphics.

Leominster...

Bowling

The DEC-sponsored Leominster Bowling League has begun its summer season with 32 players, in eight teams. League officers are: Harvey Cohen, chairman; Bob Corbeil, vice chairman; Lauretta Carignan, secretary; and Gloria Wilder, treasurer.

The high average for men as of late April was held by Mike Salovardos, with 94.8. The women's high average was held by Wanda O'Brien, with 91.6.

All committees have been formed and a banquet (possibly a luau) is planned for sometime in August. The committees are: Rules: Bob Corbeil, Pete Bernier, and Joyce Guilmette; Banquet: Lauretta Carignan, Honorine Beuregard, and Bob Corbeil; Trophies: Harvey Cohen, Gary Ares, and Althea Myers.

Trip

Takako Stokes a module inspector at the Leominster Plant, recently visited her native Japan.

Besides, of course, visiting Expo, which she found "very exciting and enlightening. The Russian and American exhibits were best," Takako took part in a "Thirteenth Year Mass," a mass held by her family every thirteenth year and called "Hoge".

Canada...

New Office

Plans for a new Canadian office in Vancouver are nearing completion. The new office, scheduled to open early in May, will be the Western District Office and will be responsible for Sales and Service throughout Western Canada. The Edmonton office will be a branch office in the Western District.

John Hughes, Western District Manager, points out that the Vancouver office would better serve customers in Western Canada. Both the Vancouver and Edmonton offices will have full support capabilities in applications engineering, field service and software support.

Additionally, the Vancouver office will be offering a series of seminars on computers and modules. The program of seminars will be offered free of charge and will include seminars on hardware, software and applications.

The new office address is:

Digital Equipment of Canada, Limited
2210 West 12th Street
Vancouver 9, B.C.

PDP-11

According to Carl Gottlieb, marketing communications manager for DEC-Canada, the PDP-11 was received enthusiastically in Canada, and particularly at the Data Processing Institute Convention and Show in Ottawa. Responsible for setting up the show were Malcolm Shaw, sales engineer in Ottawa, Terry McManus, software support in Ottawa, David Whitside, Ottawa district manager, and Carl Gottlieb.

The DPI show was sponsored by the Canadian Federal Government, which solicited Digital's participation. Digital personnel, in turn, invited all of their federal government customers to the main show and other customers to a private showing. Attendance was high, and for the four days, the PDP-11 was surrounded by spectators and admirers. In addition to the favorable response to the new computer, the Canadian customers were also impressed with the new line printer interfaced to the PDP-11.

Appointments

Canada Accounting Manager, Fred Welton, announced the appointment of Ernie Cox to Supervisor of Sales Administration. In his new job Ernie will be responsible for module and computer order processing and scheduling, contract administration, finished goods, warehousing, and sales, shipping and receiving.

Fred also announced that the Customs Department will be joining accounting. The name will be changed to the Export Department and Bill MacGregor will be appointed as supervisor of the department. In his new job Bill will be responsible for all areas of customs in the company including imports, exports and drawbacks.

Maynard...



Top: The winning team in Maynard's Winter Bowling Roll-offs included: (left top right) Bernie Beksha, Capt. Jerry Tolman, Lillian Hanson, George Rezendes, and Jim Kessler. Bottom: Coming from behind to finish second were: Tom Bartlett, Capt. Jim Tarosky, Martha Degerstrom, Rick Seik, and Pete Benoit. Right: Lillian in one of her "bomb" deliveries.



Germany...

Fasching

By Birgit Klobutschek
DEC Munich

What comes to your mind when you hear the name "Munich" and "Bavaria"? Probably Oktoberfest, fairy-tale castles, beer, and Hofbrauhaus. But our most swinging asset is not so well known to foreigners: the Munich Fasching.

What carnival is to Rio, Fasching is to Munich: the nights in the fantastically decorated ballhouses become day, the little slip from the stenography pool becomes Cleopatra and dances with the all-mighty vice president himself who, that very night, chooses to dress as Harlequin.

But what are the origins of Fasching? What is its purpose?

Fasching, which originated in Medieval days, begins each November 11 at precisely 11:11 am - 11/11/11:11 - and culminates with "Fastnacht," a festival held on Shrove Tuesday, the last day before the start of Lent. In early days, Fastnacht was a day of merriment before everyone settled down to the rigors of Lent. In modern times, although Lent isn't so rigorous, the merriment hasn't lessened. Fasching is a time of laughing, dressing in costume, and dancing.

England...

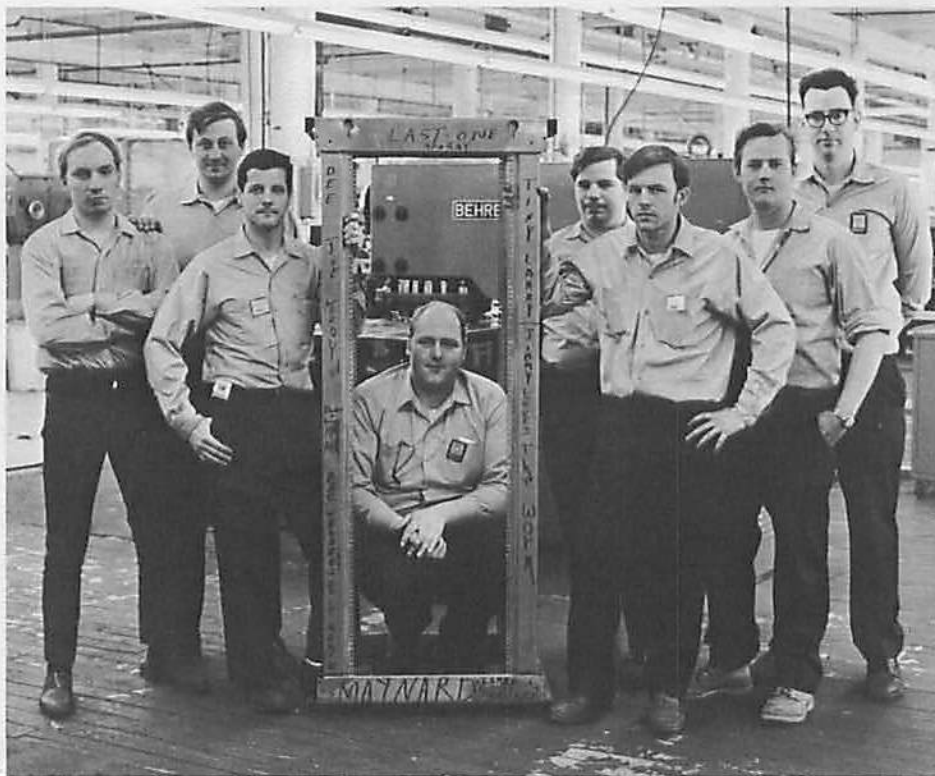
Prettiest Girls

"The prettiest girls in the computer industry work for Digital" is the sweeping statement that has been made with confidence by Digital.

"We decided this when considering hiring professional demonstrators to assist on our stands at this year's technical exhibitions," said Jim Crowther, Digital's European Exhibitions Manager. "This idea was rejected because not only are our own girls extremely attractive, pleasant and helpful, but they also have a good knowledge of our products in this specialist field; something you can't expect of a model hired for the one show."

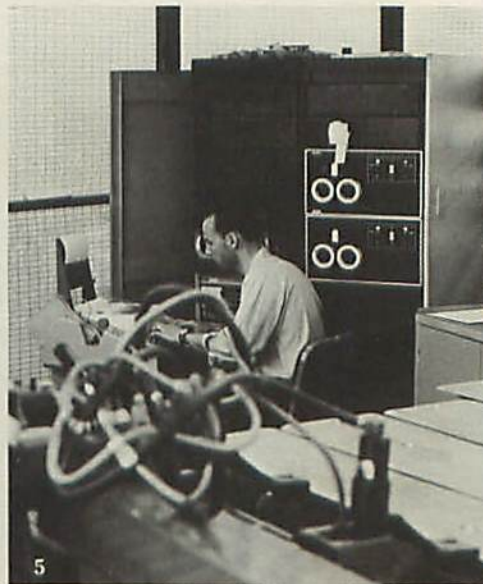
First tour of duty for the nine Digital girls (who are based at both the Reading and Ealing offices) was at the Instruments, Electronics and Automation Exhibition held at Olympia in May. At this show was at the Instruments, Electronics and Automation Exhibition held at Olympia in May. At this show Digital dispensed a total of three tons of literature, including 10,000 technical handbooks.

The uniform dresses of wedgwood blue, designed and made by Digital secretaries, Margaret Petty and Lesley Wallis, are teamed with navy shoes and hat.



When the last computer cabinet left Maynard for Westfield, where cabinets will be made from now on, the welders added their own epitaphs. Posing with that final cabinet are (l. to r.) Daniel Hunt, Woody Nicholson, Joe Bisson, Roland Morin, Bob Mongeon, R. Paradise, Deiter Vogelsang, and Larry Brogan, head welder. (Note: Roland did not go along with the cabinet!)

If It's Made Of Me



The Metals Fabrication department, unlike Gaul, is divided into nine parts. Under the overall direction of manager Mike McGraw, Metals Fabrication ramifies into the Machine Shop, the Sheet Metal Shop, Silk Screening, Painting, Cabinet Assembly, Maintenance, Product and Inventory Control, Tooling and Methods, and Quality Control.

Under Manager John Trebendis, the Metals Fabrication Department is responsible for the fabrication of all metal parts for computers and modules. Until recently, when the Westfield plant took over the functions of cabinet fabrication and painting, all cabinets were made in Maynard.

The Machine Shop men cut and shape metal castings, panels, and bezels. They also mill (cut) and/or drill parts from raw material to form sheets of metal or metal parts for specific purposes such as computer chassis or cabinets.

Spray painting is well worth a trip to the Paint Shop area to see. A waterfall behind the spray area washes away excess paint, while parts of frames hang on wires like laundry on a clothesline.

Metals Fabrication's new equipment in-

cludes nine numerals, which receive tapes. A multispindle machine operated by Ronald and taps. A PDP-8/1 turret punch, which executes PDP-8-controlled hole designs. A single spindle machine and a multispindle machine with manual operators. Knowlton, Charles McCaffrey - runs tapes to tell the machine holes as well as what

Ron Chestna, Supervisor of Inventory Control, to keep track of the parts that constitute Metals Fabrication's

John Caulfield, Supervisor of Engineering Materials, that provides jigs and engineering, usually within .0001 inch.

Joe Bentley is group leader of the Precision Machine Shop in the N/C center, milling and turning

1) John Kavaleski operates automatic silk screener. 2) TU-55 tape reel is tuned down by John Mitchell. 3) Burgmaster machine in operation on a TU-56 panel casting. 4) Ben Lambert center - drills an RS08 DECplate.

5) Rick Bilodeau programs computer-aided Forsythe operates conversion coating system. 6) machining on a new product is performed by

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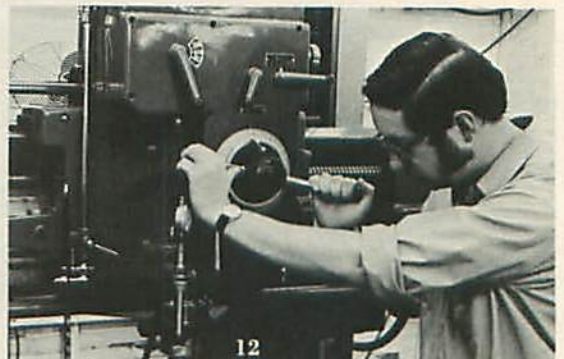
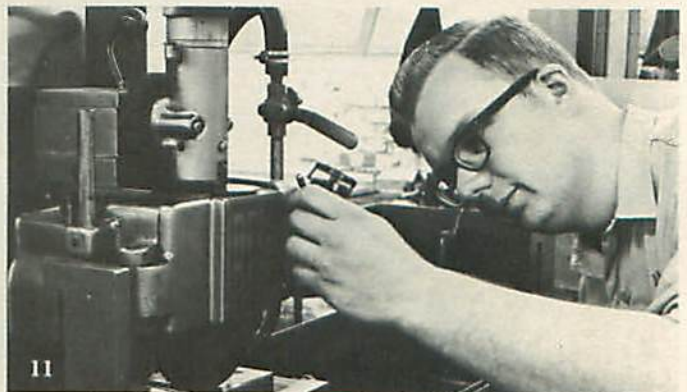
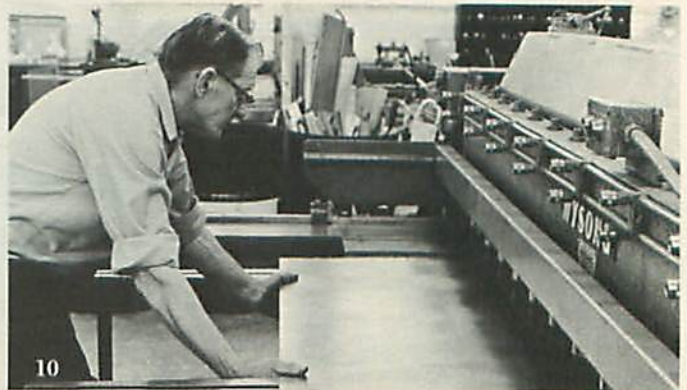
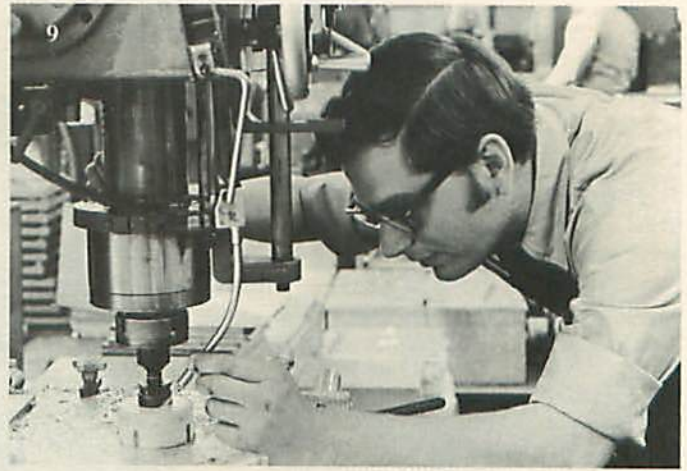
Walt Gunderman supervises the Paint and Finish Shop, which, among its myriad functions, affixes by the silk screening process the names of DEC computers and the DEC logo, as well as parts numbers.

The Sheet Metal Shop is under the direction of Doug Hines. It is here that the shearing, punching, bending, and welding of the chassis and components are done. Bob Burg has charge of cabinet assembly.

Responsibility for keeping all machines running falls to Dom Infrerra, Maintenance Supervisor, and assistants Dick Dauphinais, Stan Howard, and Larry O'Brien.

Russ West supervises the Tooling and Methods Group, whose function it is to be on constant vigil for new manufacturing concepts and processes.

Quality Control is maintained by Bruce Porter's group, with assistant Art Granfors and a crew of three. Quality Control recently acquired a coordinate measuring machine, which measures tolerances in millionths.



ed multi-station turret press. 6) Ricky
st step prior to painting). 7) Experimental
z Herbert.

8) Edith Carter touches up and inspects a front panel. 9) Final adjustments on a Model C
Tape-O-Matic machine are made by Roland Forcier. 10) Joseph Tomyl shears sheet stock.
11) Allen Creamer prepares surface to grind carbide for module dies. 12) Charlie Sullivan
operates a new jig borer.

3 Hours vs. 2 Weeks

PDP-8L Keeps Inventory

"In a matter of minutes we can know how much money is tied up in inventory," said Ron Chestna, shaking his head in disbelief.

Even after using the system for more than three months, Ron, Supervisor of Production and Inventory Control for the Metals Fabrication Department, finds it hard to believe that a PDP-8/L can do, in three hours, what it used to take two people the greater part of two weeks to accomplish.

To help make the system operational, Rick Merrill helped Ron to learn FOCAL[®]. Then, while Rick wrote the software for the PDP-8/L in machine language, Ron wrote the software in FOCAL language as necessary to fulfill his needs. As a result, the inventory system, which is composed of a 4K PDP-8/L, DF and DS32, and a PC01, can store 2,900 parts; i.e., it can tell in moments how many of a certain part are in stock. It can also, according to Ron, give cost and "explosion" data, meaning that if you want to build a PDP-8/L, the system will tell you exactly which parts you will need, how many are in stock, how many are on order, and cost the parts at the same time.

Production and Inventory Control is responsible for monitoring a six-month forecast for the fabrication parts required in all product lines — the first three months quite firm and the next three as definite as possible. It used to take two people about a week and a half to accomplish this task; now, thanks to the PDP-8/L of FOCAL, it takes one operator a single day.



When discussing the system, Ron looks like an incredulous little boy discussing a whale that he happened to catch! "Rick Merrill is responsible for most of it," Ron asserts; "his practice is unbelievable!"

The additional members of the Production and Inventory Control Section include Joe Monahan, Kevin Stankard, Lil Hanson, Ed Unis, Bob Rising, Sophie Shultz, Brita Kurkaa, Ron LeBlanc, Sam McIntosh, Jim Roddy, Dick Bissonnette, Joe Sousa, John O'Brien, John O'Connor, Mary Tohey, Ed Fowler, and Art Backstran.

Production and Inventory Control is a section of the Metals Fabrication Department, under Mike McGraw.

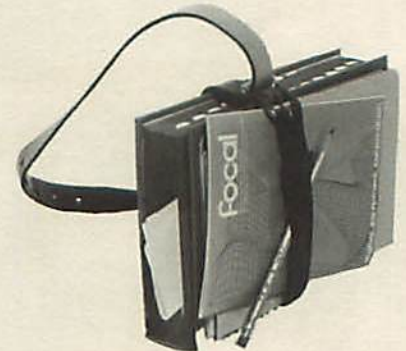
Psych Button Giveaway

Psychology buttons — thousands on thousands of psychology buttons — were given away by LAB-K's Product Manager, Bill Kunkle, and his trade show staff during the Eastern Psychological Association (EPA) Show at Atlantic City.

The buttons, entitled, PSYCHOLOGISTS NEED UNDERSTANDING, PSYCHOLOGISTS ARE PEOPLE, and BEFRIEND A PSYCHOLOGIST, were first used as part of a LAB-K advertising campaign. Taken to EPA, they quickly became the hit of the show. In the show's two days button collectors had cleaned the DEC staff of every last one!!!

Now, Direct Mail is sending hundreds of the famous buttons to each sales office. With secretaries using them instead of jewelry, salesmen wearing them as tie-tacks and boutonnières, and LAB-K salesmen giving them away to psychological researchers, the second great psychology button giveaway promises to be an even greater success.

Literature Available



A new booklet explaining FOCAL[®] has been printed and is available from Al Gleeson in Direct Mail to anyone interested in learning that language.

Specifically intended for the person with little or no experience at programming, the booklet explains the language in simple terms. If you have teacher friends who are interested in using computers in their curricula, it might be a good idea to pick up a few pamphlets to give to them.

ON LINE

Published monthly for employees of Digital Equipment Corporation and its subsidiaries.

To record a change of address or failure to receive ON LINE, contact Ruth Gyles, Personnel, Maynard (Ext. 2794).

For bulk shipments and extra copies, contact Sue Tata, Public Relations, Maynard, (Ext. 2827).

Digital Equipment Corporation, 146 Main St., Maynard, Mass. 01754

Review Board Expands

(Continued from page 1)

The Board's primary functions include reviewing candidates for reclassification to engineer and assisting engineering managers in a wide range of activities, designed to help maintain a positive environment for DEC's engineers.

In its more than two years, the Engineering Review Board has endorsed the reclassification of 18 technicians to the rank of engineer. Final approval by the Operations Committee has been given in all cases.

Westfield Goes On Line

The first cabinet frames totally fabricated and assembled in the Westfield plant are now being shipped to Maynard regularly.

The Westfield facility officially opened its doors on January 19, 1970. After a short interval of orientation in Digital's equipment, requirements, and fabrication techniques, the Westfield group moved into gear. During February, efforts were concentrated on painting, assembling, and shipping cabinets, which had been previously fabricated in Maynard. In March, the fabrication team completed the cycle, producing finished cabinets from raw sheet metal stock to final product, which they hadn't even seen six weeks earlier. A number of people from the Maynard Fabrication Department spent considerable time lending a hand in Westfield to assure success of the start-up.

Fabrication of the computer's modular frame and its major accessories comprises the principal operations at Westfield. Expansion of sheet metal and machining capabilities will be made as production requirements warrant.

DIGITAL MAYN

DIR WEST

MSG 001 3/13/70 2 P.M.

TO: PETE KAUFMANN
FROM: DAN SULLIVAN

WESTFIELD IS ON LINE. FIRST TOTALLY WESTFIELD-BUILT CABINETS SHIPPED TO MAYNARD TODAY.

DAN

END OR GA .



1 Painters, Handlers, and Assemblers: (back row, l. to r.) Manuel Gil, Jim Joyce, Ernie Flowers, Ed Allaire; (front row) Ted Baranowski, Dennis Coopee, and Clayton Egleston.

2 Sheet Metal Department: (back row, l. to r.) George Shelkey, Dan Larrabee, Mike Ware, and Joe Tortoriello; (front row) Fran Dzwonkoski, Chet Lewinski, Alden Smith, and Frank Hankins.

3 Welding Department: Bill Broderick and Dee Vogelsang.

4 Maintenance, Production Office, Tool Crib, and Inspection: (back row, l. to r.) Bill Szalankiewicz, Gene Carroll, Jack Prince, Frank Cressotti, Verne Hillman; (front row) Pat Hall, Stan Wantuch, Charlie Auclair, Norm Harrington, and Stan Zawacki.

Promotions and Appointments



Williamson



Sarazin



Chapman



Thiberghien



Muczko



Trebendis

CHAPMAN

Wilson Chapman was recently named PDP-14 Marketing Manager with complete responsibility for all PDP-15 business. Wilson came to DEC in April of 1969 as a sales engineer in the New England region, after nine years of sales experience in the semiconductor industry with extensive distribution, industrial, military, and commercial sales. He studied business administration at Ithaca College in Ithaca, New York.

TREBENDIS

John Trebendis was recently named Manager of Operations for the Metal Fabrication Department. After coming to DEC in 1962 as a stock clerk, John became, successively, group leader of the stock room, buyer, and, in 1967, shop supervisor of metals fabrication.

SARAZIN

Yves Sarazin was recently named Branch Manager of DEC's Geneva, Switzerland, office. He joined DEC in 1966 after some time as sales engineer with the Paris District Office. Yves holds a degree in electronic engineering from the Ecole Supérieure d'Electricité in Paris.

WILLIAMSON

Alan Williamson is Digital's new branch manager in Sydney, Australia. He has been associated with Digital for three years and was engineer on the PDP-6 at the University of Western Australia. Alan has a diploma of Electrical Engineering from the Gordon Institute of Technology and has worked as engineer in charge of the computer laboratory for the Government Aircraft Factories.

THIBERGIEN

Pierre-Yves Thiberghien was recently appointed Finance and Sales Support Manager for DEC-International Europe in Geneva. He joined DEC in 1969 after several years as Assistant Project Manager with the European Community for Atomic Energy in Brussels. Pierre-Yves holds a degree in chemical engineering from L'Ecole Nationale Supérieure d'Ingenieurs de Grenoble and an M.S. in business administration from Columbia University.

MUCZKO

John Muczko was recently appointed Branch Manager of the Pittsburgh Office. Born in New Castle, Pennsylvania, John studied computer technology in the U.S. Air Force and later attended the University of Washington in Seattle; Johns Hopkins University in Maryland; and received a B.S. in business administration from West Virginia Wesleyan University. Previously employed as a quality control engineer by Moore Business Forms and as a systems engineer by Westinghouse Electric, John started with DEC in March, 1969, as an applications engineer.

BUKKHEGYI

Jozsef Bukkhegyi was recently named Production Supervisor of the circuit board preparation area. After leaving his native Hungary where he had completed four years of study in electronic technology, Jozsef went to Austria and then to Rome, where he joined the U.S. Army. Upon discharge from the service, he entered Lowell Tech in 1962. Jozsef came to DEC after holding positions with several local electronics companies. In his present position, Jozsef is responsible for planning and directing the operations of the board preparation area to meet both internal and vendor requirements for drilled circuit boards.

Stockebrand Joins PDP-11 Group

Tom Stockebrand has joined the PDP-11 group as Communications Engineering Manager.

"The fact that our group has acquired an engineer of Tom's caliber is indicative of the importance of the communications area," Andy Knowles, PDP-11 Product Line Manager, stated.

Tom has a long string of outstanding technical accomplishments going back to the initial design of the DECTape. He also helped develop Digital's semi-automatic wirewrapping process, pioneered direct numerical control of production machinery, and helped introduce a number of manufacturing innovations.

"The only project which I can really claim as my own," Tom states, "is the DECTape." This device evolved from a 14-inch tape reel unit which he designed while at M.I.T.'s Lincoln Labs in 1957. When he came to DEC in 1961, the DECTape was one of his first projects.

Tom also set up Digital's strates processing facility for the manufacture of hybrid circuits. The project was cancelled when the price of diodes dropped and it was no longer financially worthwhile for Digital to produce its own hybrid circuits.

For the last two years, Tom has worked in process engineering. The semi-automatic wirewrapping system which he helped develop now consists of a large facility in Carleton Place with 60 wirewrapping terminals. Among his process engineering innovations is a "string digitizer" a low cost device for digitizing data from a diagram or schematic.