THE MACARONI JOURNAL

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July, 1982



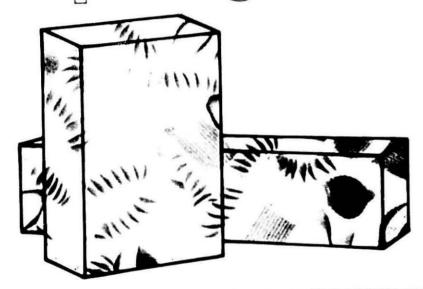
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JULY, 1982



The Broadmoor, Colorado Springs — 78th Annual Meeting N.P.A.

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package that your product richly deserves ... A premier pasta package by Fold-Pak.

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Management Team at Bridgesie- lett to right

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PROGRAM

78th ANNUAL MEETING OF THE NATIONAL PASTA ASSOCIATION

The Broadmoor, Colorado Springs, Colorado

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9:00 a.m. Executive Committee Meeting in Pourtales Room.

3:00 p.m. Board Meeting in Briefing Room West.

3:00 p.m. Convention Registration Desk open, Mezzanine Main.

6:30 p.m. Newcomers Reception, Pompeiian Room.

7:00 p.m. Welcoming Reception for All, Pompeilan Room.

8:00 p.m. Italian Dinner — President's Address, Main Ballroom.

Monday, July 12

9:00 a.m. Business Meeting in West Exhibit Hall.

Opening Remarks, Committee Appointments — President L. R. Thurston, Jr

9:30 a.m. Things to do and see at the Broadmoor — Diane Butler, Social Director.

9:40 a.m. State of the Economy — Speaker Roy Romer, State Treasurer of Colorado.

10:15 a.m. Coffee Break.

10:30 a.m. Congressman Timothy E. Wirth will comment on the State of the Nation.

11:30 a.m. Consumer Affairs Council Meets.

2:00 p.m. Tennis Mixer at South Courts — sign up in advance.

6:00 p.m. Busses leave for Rotten Log Hollow Cookout.

Tuesday, July 13

9:00 a.m. Business Meeting in West Exhibit Hall.

Report from North Dakota — George A. Sinner, President,

Northern Crops Institute.

9:40 a.m. Report from Millers National Federation - James J. Feeney,

Chairman of the Board.

10:20 a.m. Coffee Break.

10:40 a.m. Bob Mathias — Director, Olympic Training Center.

11:10 a.m. Lt. General Kenneth J. Thorneycroft, CF, deputy commander in chief,

North American Aerospace Defense Command (NORAD).

1:00 p.m. Golf Tournament, East Course — sign up in advance.

Open evening — no planned functions.

Wednesday, July 14

8:00 a.m. Council Breakfasts in Bailey/Stratta Room, West.

9:30 a.m. Business Meeting in West Exhibit Hall.

Louis B. Raffel, President, American Egg Board.

10:00 a.m. C. Joan Reynolds, Wheat Industry Council.

10:20 a.m. Elinor Ehrman, Burson-Marsteller, presents the National Pasta Association

product promotion report.

11:30 a.m. Directors Organization Meeting.
12:30 p.m. Directors Luncheon in Bailey/Stratta Room.

7:00 p.m. Suppliers' Social at the West Pool.

8:00 p.m. Dinner Dance in the West Ball room.

Thursday, July 15 - Departure.

THE MACARONI JOURNAL

CONVENTION SPEAKERS



Rep. Timothy E. Wirth



Bob Mathies Director, Olympic Training Center



Lt. Gen. K. J. Thorneycroft Deputy Commender-in-Chief, NORAD,



George A. Sinner Icnt, Northern Crops Institute, Cossetton, North Dokota



James J. Facacy Chairman, Millers National Fodoration



Lester R. Thurston, Jr.



Senier Vice President, Burran-Marstelle



Louis B. Reffel



C. Joen Reynolds
Executive Director, Wheet Industry Council

JULY, 198

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FLOUR AND SEMOLINA QUALITY CHARACTERISTICS, STORAGE AND HANDLIN

by Robert I. Bruning, Technical Center, International Multifoods

Semolina and durant flour are both flood items covered under the Lood and Drug Administration's standards of identity. All foods covered by these regulations must comply to the speci fications as listed in the code of federal regulations. Items that do not comply with these regulations, and are shipped in interstate commerce could be seized by the LDA for non-comphance. The regulation for durum flour is as tel-

- (a) Duram flour is the food prepared by grinding and bolting tested for granulation as pre-scribed in 137 108 section a (4) not less than 98 percent of such flour passes through the No To say It is treed from bran coat or bran coat and germ, to such extent that the percent of ash therein calculated to a moisture-free basis is not more than 1.5 percent. Its moisture content is not more than 15 percent
- the For the purpose of this section ash moisture and granulation are determined by the methods prescribed in 137 105. Section

The definition for semelin, is

at Semidina is the food prepared by grinding and bolting cleaned durum wheat to such thenesthat when tested by the method 20 sieve, but not more than 3 are not incorporated in the doa percent passes through a No ing the mixing cycle. This re-100 sieve. It is freed from bran, white streaks and white speek coat or bran coat and germ, to such extent that the percent of. These spots are generally can ash therein calculated to a particles in the semolina which moisture-free basis, is not more remain over a US 30 wire 1 than 0.92 percent

There are many other toods standardized by the LDA Most macaroni products, as well as cheeses, bakery products cereal flours, canned foods ice cream, and other items are included in the definitions established by cleaned durum wheat When the LDA What this means is that any consumer or user of these standardized products is assured, by government regulation, that the product that he is using meets these standards

Other Factors

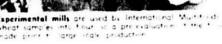
Using the FDA standards as a basis point, we could expand upon the various factors which the durum millers and macatom manufacturers use to further identify the quality of durum from and semoline Paramount among these factors is appearance, color and speckmess. Speckiness is generally an objective factor Color, however, is subjective, and very few of us perceive it in the same manner. Generally, how ever all pasta people are agreed that the bright amber color is satisfactory. and shades of brown or grayness are unsatisfactors

Another factor to consider is the granulation of semolina. It can relate very had an ash that ranged to directly to production and finished prescribed in 13° 300. Section product quality. In modern high speed term on this same sensoling varie

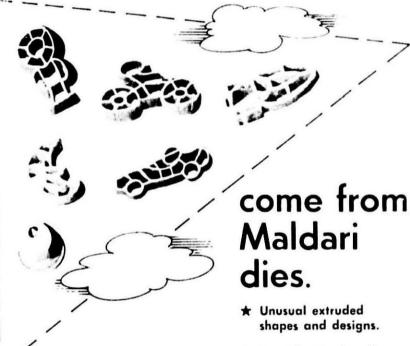
surface of the finished pasta pr semolina should be of all one; size, however, practically st this is not teasible. The modern mills are engineered to produc form distribution of particles semolina. It is difficult to char particle size distribution withrupting the entire flow and balthe null. To demonstrate the ance that particle size plays of manufacturing, some of the pasta plants in Italy have deviceof their plants to screen semolivery uniform size. This is done troducing sitting devices which so the course material and subject grinding before going into the plant By having the uniform : size, optimum production and are achieved

The analytical factors of me ash and protein do not relate of to quality factors of semolara, by they do serve to identify the ! wheat from which the semolimilled. To expand further on # might examine the 1981 Durum Regional Survey published by Dakota State University The lina produced from the 1981 ct low of So to a high of To The





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Flour Quality Characteristics (Continued from page 8)

the low of 11.70 to a high of 15.20. Within these ranges there were no significant color differences or spaghetti processing differences.

Gluten quality is another factor of which there has been considerable interest in recent years. This is the result of the release of the stronger glutentype durum wheats. Flour and semolina produced from these stronger gluten wheats seem to process more uniformly, and produces finished products that are more resistant to over-cooking.

In summary, the quality factors which we look for in semolina and durum flour are appearance (color, speckiness), granulation, moisture, ash, protein and gluten quality.

Testing Methods

There are several methods used for determining each of these factors. To evaluate appearance, the most widely used test is the slick test. This procedure requires a control sample and the unknown. The two samples are placed side by each and visually compared. Granulation is generally determined by following the procedure outlined by the W. S. Tyler Company in their Handbook 53.

This test consists of sifting a 100 gram portion over a series of nested sieves on the rotap sifter for 5 minutes. Each sieve fraction is then weighed to determine the percentage. Moisture, ash and protein are determined by AOAC or AACC published standard procedures. Gluten quality is a little more difficult to precisely define. Current methodologies, are the semi-micro sedimentation test and the mixography. These tests can generally identify the standard gluten durum varieties from the strong gluten durum

Another factor which should be mentioned when we discuss the quality of durum flour and semolina is testing for extraneous matter. Current industry emphasis on good manufacturing properly. practice and wholesomeness and cleanliness of food requires that products used in the pasta industry be monitored for extraneous matter. Historically, durum products do not carry the filth load, insect fragments and rodent hairs, that other wheat flour products do. Our industry is fortunate in this respect. Over the years durum flour and

semolina have had insect fragments coarse material when pneuma cally ranging from 0 to perhaps as high as 10, with an average of something around 2 or 3. The rodent hair count has averaged much less than 1, with only one sample out of 15 or 20 showing I rodent bair fragment. In contrast, the FDA has recently announced it's "Defect Action Levels" for insect fragments and rodent hairs in wheat flour products. This level for insect fragments is an average of 50 or more per 50 grams, and for rodent hairs, an average of 1.0 or more per 50 grams. This average is based upon the examinations of six 50-gram samples. The regulatory agencies sample and test six samples from any given lot, and the average result of these six must not exceed the DAL's.

No Microbiological Standards

There are no established microbiological standards for durum flours and semolina, however, the general regulation covering all food items require that they be free from any pathogenic organisms. This would include items such as salmonella. Semolina and durum flour are foods of organic origin. As such they are subject to spoilage the same as any other fresh food. The elements of time, temperature and moisture all come into play in determining how long semolina or flour will keep without going out of condition. Storage tests have shown that in as little as 30 days at 100 degrees F, reactions take place which affect the odor and physical appearance of semolina. The same samples when stored at -20 degrees F will keep indefinitely. Bulk storage also accelerates the rate of deterioration of durum flour and semolina, as opposed to storage in bags. As a general rule, we do not like to hold any wheat flour in bulk storage for a period longer than two weeks without turning it. Storage beyond this time can increase the chance of the product becoming infested. Keep in mind flour is a food and as such will spoil if not handled

The bulk handling of flour and semolina has greatly increased the efficiency of moving it from mill to con-sumer. Bulk handling has also brought upon us some problems which we must recognize. The two most annoying problems are the separation of fine and

loading and unloading semolina and the problem of condensation fo ning inside of bulk cars, particularly coring the late fall and early spring so usen The new high speed (slush lo. ting) has minimized these problems, how ever, to a certain extent they still do exist. The principal difficulty in surtcle size separation or stratification in bulk systems is in the difficulty obtaining an accurate sample of the product. If we could examine a cross section of a bulk car, we would notice layers of coarse material and fine material, although by the use of a probe we can transcend these various layers, we will at times still find it difficult to obtain a truly representative sample. However, if we recognize this situation and obtain re-samples when one obviously is out-of-line, proper identification of a lot can be obtained.

Prince Foods Introduces Nation's First Light Pasta

The Prince Foods Company of Lo well, Mass., one of the nation's largest pasta makers, is introducing New Prince Light Spaghetti and Elbos Macaroni into selected markets this spring. Prince Light Spaghetti, with one-third less calories than regular pasta, is the first light pasta to be in troduced in America.

The testing and introduction of the product were handled in conjunction with Prince's advertising agency, 'end Advertising, Inc. of New York. 'end arranged early testing and con-incr research which discovered broa acceptance and demand for the project.

Prince Light is expected to a tract consumers who do not presentl cal pasta due to its high calorie p. orp tion, and to increase consun tion among current calorie-conscious vasta consumers. Prince Light Spag ettis appeal to these two groups pre nise strong growth for the new brand

The product is initially being all out in 20% of the country back d by media at a \$2,500,000 national evel via a testimonial campaign feat tring N.Y. Yankee pitcher, Dave Righetti who refers to Prince Light as "R ghetti's spaghetti."

"Nutritive Values of Macaron Spaghetti, and Egg Noodle Products 12¢ each plus 25¢ postage and handling: \$10 per hundred plus freight.

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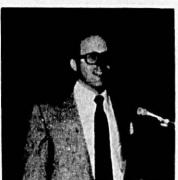
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FLOUR HANDLING AND BLENDING SYSTEMS FOR PASTA PRODUCTION by Jim Cavender, AZO, Incorporated



Jim Cavender

When designing a flour handling system for a pasta plant we take five main areas into consideration which give us the basis for the system design:

The Storage Capacity Required:
 The amount of flour stored in a system is dependent on many factors such as the system use rate, the proximity to the flour mill(s), and the amount of emergency reserve required, based on past experience.

By using these factors, the number of pounds of storage capacity for each type of flour can be determined. A method of keeping track of the flour inventory is also very important. There are three basic methods available:

a) The use of multiple level indicators, such with its own light on the compol panel: By checking which lights are illuminated and knowing the location of this indicator, one can calculate the approximate number of cubic feet of flour at that point. The inaccuracy of the system is the distance between two level indicators. For example, a 12' & silo holds slightly more than 4,000 pounds of flour per linear foot of cylinder height. A 15' & silo, as used at Golden Grain, holds slightly more than 6,500 pounds per linear foot. Therefore, unless many level indicators are used, this method is not extremely occurate.

b) Yo-Yo's and Ultrasonic Level Indicators: Both of these types of units provide a digital readout in feet of product or percent full. We have found the ultrasonies to be more troublefree for use on flour. The fine flour dust tends to cling to the cable used on a Yo-Yo which can get into the mechanism and cause maintenance problems. Ultrasonic units are used at Golden Grain with very good success. The units provide a digital readout in percent full and are fairly economical. The limitation of these devices, as well as the method mentioned in #1 above, is the conversion of this volumetric measure to pounds of product. The accuracy of this conversion is determined by the factor used as the bulk density of the material. Bulk density can vary greatly with the size of the silo due to compression, and varies with the different types of flour.

c) Placing Silo on Load Cells:

This third method of measuring the flour in the silos is the most accurate, but is also the mesi expensive. It provides a digital readout in pounds of product. While this type of arrangement is best implement when the silo is first installed, there are some alternative methods on the market which can be retrofitted into existing silos. The cost of this method depends on the accuracy desired, the size of the silos, and the use of the information received. The signal from the load cells can be used as high and low level indicators, it can send information to a central computer for inventory processing, it can provide a printed readout of the silo capacity at pre-determined intervals or upon operator demand, or it can simply provide a readout which can be observed and logged by the operator. There is an effect on the

readout accuracy due to wind

- or snow loading and s dder temperature variations. This effect can be eliminated by placing the silos indoors.
- System Throughput and Number of Delivery Points: Once the storage capacity has been determined the next most important factor i the total throughput of the system. This is a function of the number of presses to be fed and the capa-city of each press. With this information, the conveying rates for the press feed system can be determined. The rate is usually set 15-20% above the maximum use rate, depending on the total conveying distance. The longer the distance the greater the line clean-out time required between press changes, and therefore the lower the system throughput. Once the desired throughput is known and the cosveying distance is established, the size of the conveying systems cas be calculated which determines the line size, the blower horsepower and the filter area at the various points. An important consideration here, of course, is the possibility of future delivery points. This capa-city should be included in the in-tial design of the system if additional points would be add d in the foreseeable future. It is nud less expensive to increase the size of a conveying system prior the initial installation than it 5 % change at a later date. A sturt change can involve the char z d blowers, conveying lines, di erter valves, filters and the asso iated electrical hardware.
- System Sanitation: The area of the sanitation of the system is probably one of the most important considerations in system d signature. This sanitation not only involves basic sanitary construction of the equipment itself, but the method of conveying and the location of silving stations to insure no oversize trash gets into the product. While this area alone can be the basis for a separate discussion, the basis for the sanitation should be the following:

(Continued on page 13)

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Flo Handling Systems

Clean interior design of all equipment with crevice-free interiors and a good FDA approved coating or stainless steel construction.

- Manways in all hoppers and bins so that access to the interior is easy to facilitate more frequent inspection and cleaning.
- c) Sifting the flour at more than one point to help insure that no oversize trash gets into the product. This is not only a sanitation concern, but also an equipment failure concern, as in the prevention of a nut or bolt from entering the press.

The best place to perform the first sifting operation is between the railcar and the storage silos. Sifting at this point prevents any trash that may be in the railcar from entering the system. The flour also should be sifted at the last point prior to entering the press. This can be accomplished by placing a sifter at the discharge of the press surge bin.

The type of conveying used is also an important factor in the dust-free nature of the total system. We use vacuum conveying wherever practical for several reasons. One of these reasons is the dust-free nature of vacuum conveying. Some of the other advantages of vacuum conveying will be discussed in more deal in the discussion of the Flour ding System. Our basic rule in the discussion of the system is:

- a everal pick-up points and one lelivery point: Vacuum concying is preferable.
- b) One pick-up point and several pick-up points: Pressure conceying is preferable. If you have, in the case of a flour system at a pasta plant, several pick-up points; (the storage silos), and several delivery points, (the press bins), then a vacuum/pressure or pull-push system is highly advantageous. From a sanitation standpoint, this greatly reduces the dusting possibilities under the silos, and

in any other areas where the vacuum conveying is used.

4) The Number of Different Flours to be Blended and the Approximate Percentages: These are also very important in the design of the system. Generally, in pasta production there are three types of flour and regrind that can be used in various combinations. The systems are set up with a 0-100% capacity for regrind. This blending is accomplished through the use of variable speed rotary valves at the discharge of the storage silos and the regrind storage bins. These rotary valves feed a common vacuum conveying system which conveys the product to a vacuum receiver. The vacuum receiver discharges the flour into a pressure conveying system that feeds the various press surge bins.

This type of discharge system on the silo and the use of vacuum conveying is very critical. We use a dizing cone called a TURBO SEGMENT CONE for the silo discharge. This type of discharge uses much less height than alternative systems. This has the advantage of allowing a greater amount of storage with the same overall height, or the same storage capacity in a lower overall height. This is especially important with indoor installations, since it reduces the cost of the structure required to house the silos. For example, at Golden Grain each silo holds just over 9,000 cubic feet of flour. The alternate systems, using conventional air slide or vibrating discharge bottoms and a dual rotary valve arrangement, which is necessary when using a pressure conveying system to blend flours, held only 7,500 cubic feet per silo. This increased capacity, when multiplied by five silos, provided one additional silo of storage with the same or possibly less system cost.

This TURBO SEGMENT CONE is divided into four or five segments, depending on the size of the cone. Only one fluidizing blower is required for multiple silos. A series of valves at each cone channels the fluidizing air to one segment at a time. This sequential fluidizing provides total activation of the flour column and trouble-free discharge into the conveying system. This is especially

important when blending flours to insure that the rotary valves are running 100% full, and therefore the proportioning system can accurately blend the flours. This 100% filling of the rotary valve is only possible when the valve is feeding a vacuum conveying system. If pressure conveying is used to blend flours, a dual rotary valve assembly is required with one rotary valve at the discharge of the silo feeding a small hopper with vent socks, and a separate rotary valve at the disa charge of this hopper feeding the conveying system. This is necessary due to leakage of the conveying air through the rotary valve, otherwise the rotary valve would run at varying efficiencies and the accuracy of blending would suffer. Remember that when using a pressure system, your highest pressure is at the pick-up point, and the system pressure decreases as you reach the delivery point. With a vacuum system, your highest pressure difference is at the delivery point and when the pick-up point; are at almost aimospheric pressure.

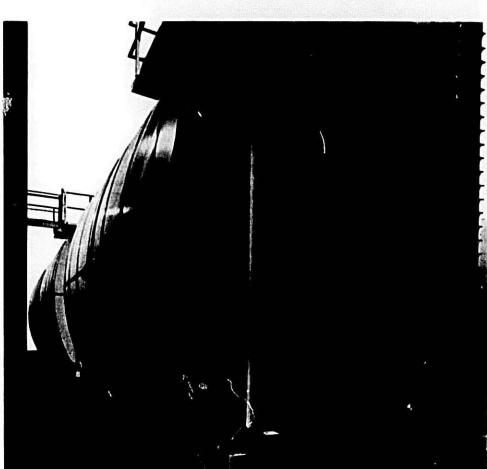
Our control system allows the operator to dial in the percentage of the different flours he requires for each individual press. Once these percentages are entered, they are stored in the memory of the controller and will automatically set the speeds of the rotary valves to the proper speeds for the press that is calling for product. When the press fills, the rotary valves stop and the conveying system is allowed to purge before switching to the next press. After switching, the valves will start and run at the preset speeds to supply the formula dialed in for that particular press. A Tacometer at each rotary valve monitors the speed of the valves, and through the programmable controller, adjusts them constantly as the valve is running. With this system, you are able to obtain a 99+ percent consistency in the valve speed, thereby assuring a very accurate blending of the

The holding capacity of the press bins is greatly determined by the amount of headroom available, the capacity of the press, the number of presses to be fed, and the capa-

(Continued on page 16)

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Models TRBB and TTBB Capacity: up to 10, 00 lbs

MODEL			
PRE-DRYER	FINAL DRYER	CAPACITY, LBS/H	
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TRNA	TTNA	1,000- 4,000	
TRNC	TTNC	2,000- 6,000	
TRBB	TTBB	4,000-10,000	

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anels 1%" thick with polyurethane foam core. Aluminum lining on inside for heat reflection and absolute vapor barrier. No heat

aller, high-efficiency units require less floor space.

rculating air fan motors are mounted inside dryers, utilizing 00% of electrical energy. (New type of energy-efficient motor

uilt-in heat recovery system (optional) utilizes exhaust air heat.

cteria and Sanitation Control

ligh temperature drying controls bacteria. Dry bulb imperature adjustable from 100°F to 180°F.

pors are in front panel for product control during operation. hey also give easy accessibility for weekly cleanouts. Swing-ut side panels extend entire dryer length, allowing fast

yer is absolutely tight, yet easy to clean, maintain and super-

Quality Product

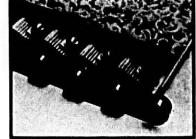
th dryer is equipped with a patented, U.S.-built BUHLER-MIAG Ma-T Control System that allows the product to adjust its own mate. The result is a stress-free, nice yellow-colored

ng temperatures, in combination with ideal drying ease cooking quality of final product.

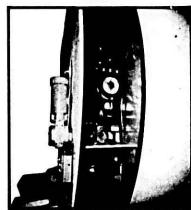
osses are minimized through the entire production including startups, shutdowns, production interrup-

odu t Quality is What Really Counts!

quality is yours from BUHLER-MIAG equipr customer recognizes and deserves it. Can affc to give him less?



Product conveyor belt made of special heavy duty roller chains, extruded aluminum alloy "S"-shaped elements and anodized aluminum product side guides. Automatic conveyor chain tensioner and lubrication system.



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JULY, 1982

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THE MACARONI JOURNAL

pur taisea nonemome to staval tronics makes higher and higher -pala battaitsidos atom to maybe the modern production facility. The note important in the operation of pur atom dumosad si nothemotur. begins the longest discussions since Allensu mied diffi sidt ngiebb mei ruk nb the parameters for syshe covered very quickly when setthat that the first four points can

uonor dui product and continue the mixbress bin to safety sereen the d) A silter at the discharge of the pruce the mixing

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of the press bin to further enet A rolaty agriculor at a discharge savies craiser and to guillit

conveying to provide 100°, p) gijo bicy-nb naing caennin

charge of the silos a) Consistent, trouble-free dis-

tem. A recap of the important trouble-free flour and blending syspur aprinose (15) e apriord of these points, when combined, flour feeder very accurately. All and the head of material on the trol the discharge of the press bin the flour feeder on the press conbau tothe officen the silter and tering the press. Level indicators the product at the last point to enplending action and safety sereen sifters which further enhance the blend. These units feed centrifugal change to further homogenize the e slight mixing action at this disont discharge of the bin, but also provides trouble-free and consista rotary agitator, which not only products in the blend. Therefore, ing particle sizes and densities of wonld lend to segregate the varyat this point, since the fluidizing nudizing as the discharge method sen of alderiead for it makes important factor in the blending discharge of the press is another be a very workable amount. The 10-12,000 pounds which seems to Golden Grain have a capacity of ony of the conveying system feed-

Continued from page 13:

Flour Handling Systems

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Continued on page 181



a conspicuous absence of mechanized dusity in the United States, there was With the advent of the Macaron In-

sneed Ausseed to juiodpuris copper. Copper was selected it in inted in this country were ma : of The first Macaroni Dies ma dat

estile United States. review the history of Macatoni De-I industry, it may be wise to q chi u rien of the many neophytes the

by Ralph A. Maldari, D. Maldari & Sons, Inc. **EXTRUSION DIES**

noilemtolni inchoqua dua tole system, but also provides the operprovides an overall picture of the the control console. This not only a graphic panel for the systems at We highly recommend the use of

-el balemotus soal e ni asu tol avit it is certainly an available alternawhile we do not recommend this, console at almost all times, and would require one operator at the as the bin calls for product. This of a formula to fill each press bin, would involve operator selection alternatives are available which is certainly desirable, more annual while this level of automation Appropriations una

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Extrusion Dies

(Continued from page 16)

entirely by primative hand methods. The holes were hand punched through a maximum thickness of 1", and the outside diameter of the Die was obtained by chiseling the excess metal and filing. These manual methods of manufacture required a malleable material soft enough to yield to the great amount of hand-punching-and copper possessed this physical property.

The hand-punching methods were subsequently replaced by hand-driven drill presses in 1905, and two years later the power-driven drill presses and lathes were drafted into service.

With mechanization came the need for increased production by the Macaroni Manufacturers, obtained through the medium of greater pressures in extruders. Copper, with its property of malleability, was unable to withstand the greater pressures developed by the improved extruders. The problem, then, was to find a material which was not too difficult to machine yet strong enough to withstand the factors brought on by increased production. and this problem was resolved by the selection of a bronze alloy.

Stainless Steel

Profit-minded manufacturers, however, demanded a still better material with a higher yield point to prevent bowing under the higher pressuresand #303 stainless steel was selected. Statistics disclosed that stainless steel was more wear resistant than bronze. but had the distinct disadvantage of a low coefficient of thermal conductivity. Thus, stainless steel will retain heat generated during operation and extrude a product with poor texture having a whitish appearance. To overcome this characteristic the stainless steel Die with bronze alloy or teflon inserts were developed. These materials were satisfactory until production output of extruders was steadily increased up to 4000 and 8000 pounds per hour. The problem of Die bowing was magnified by the fact that the European extruder manufacturers have no support under the Die during operation. This problem was solved by the discovery of #450 stainless steel with an approximate yield strength of 117,-000 psi. With reference to Aluminum Bronze, we have been advised by the

of 40,000 to 45,000 psi which is ference) develop a heavier spaj lettiroughly comparable to #303 stain-

One of our more serious concerns today is Die wear. Under normal circumstances we become conscious of Die wear through the warning medium of packaging-too heavy a product results in less volume per unit weight giving too much slack in packages. This applies predominantly to the solid and tubular products where gradual wear can seldom be detected by visual inspection of the product but must be determined by actual measurement. The fancy products generally give some indication of wear by a change in physical appearance. Sea Shells tend towards greater curvature. Mafalda sowards a more pronounced wave, Rotini and Twists towards a tighter curl. etc. etc.

In Sea Shell production the flow of dough is at its maximum at the center of the Shell, making this point more susceptible to wear than the ends. As wear increases, the dough flows faster at the center thereby increasing curvature. Today by far the most common warning of wear in Shell Dies comes in the form of checking either during or after drying. This checking can be attributed directly to Die wear and can be eliminated by reducing the thickness of the Die outlet.

Wear in the wavy-type products, such as Mafalda and Rippled Lasagne. becomes physically evident by a more ounced or closer-curled wave. A cross-section of this product should present a flat, noodle-type appearance. As you all undoubtedly know, the wave is the result of greater flow of dough on the ends of the slots in the Die. making these ends the points of greatest wear. An increase in wear is accompanied by an increase of flow of dough, resulting in a more pronounced wave. A cross-section of the product after wear is in evidence will disclose a flat noodle in the center and a spaghetti-like effect at the ends. This condition presents both drying and packaging problems and can be eliminated by proper Die maintenance.

The Rotini and Twists pavalents present an analagous cross-sectional comparison to the Lasagne in that a cross-section of the product rein to the material to be used. This selecmajor mills that maximum yield wear is a noodle-type product, where- tion is dependent upon the product

like appearance which increase the flow of dough at these points I sub. ing in a tighter curl or a greater (:gree of twisting.

Elbow-Macaroni wear is tricky since wear occurs at several points, an certain dimensional proportions must be maintained in order to obtain standard product curvature. Wear takes place at the outlet, at the pin tip, at the base of the notch, and in the case of brass pins at the pin stem between the notch and the tip of the pin.

Many of you have been plagued with product splits on short-cut products, and splits or weird distortions on long products. The cause, though not immediately detectable by visual inspection, can generally be traced to grit. In the case of splits, the grit lodges between the pin and the outlet (the grit being too large to be pushed out) and results in a definite split in the extruded product. In the case of the weird distortions of long tubular products, the grit is forced through the Die but in the process forces the pin to one side. Thus off-center pins-directly attributable to grit-is the basic cause.

A rather mystifying condition is presented by uneven wall thickness extrusions of short cut products where grit definitely does not enter the picture. When proper and standard operational procedures are not carefully adhered to, the Die yields during production. This bending follows an elli tical pattern tending to distort the or lets. with the results the concentricity of pin and outlet is disturbed. The effe t of this condition is uneven wall c tru-

In these days of high volume e trusions, a major complaint appears) be wear versus number of hours pro luction. Number of hours run ca no longer be used as a vardstick for ear. We must today base our statistic on tonnage pushed through the Die, v nich will give us a more realistic basi for rate of wear.

Specifications

In drawing up the specification for a new Die and/or product, we must go through a regular process of calculations taking into consideration all pertinent factors which may possibly affect the final product.

Our first decision is the selection of strength for this alloy is in the area as after wear the ends (at the circum- itself, method of packaging, product







application is highly important and often difficult, for many factors must be considered and balanced.

In keeping with today's technological improvements and high volume production, our basic material must be strong enough to stand up under a design which will provide for maximum output. This usually means more per Die. We are intensely interthe over-all physical properhe metal, with machinability a

factor. Applicable general es will include resistance to n, frictional resistance to the dough, and wearability.

s take an illustrative example through the series of steps reor drawing up the specification aghetti Die. One procedure in practice today is to submit with the order. The samples efully measured, several meaats being taken over the entire of the strand. This practice is aportant, for the measurements crent points on a single strand will vary. Such variations may be moisture content of the mixture, stretching during extrusion, drying, and condition of the Die outlet. We are assuming, incidently, that our files remanufactured for this particular cus- bilities:

appearance desired, and the rate of tomer in the past. From these meaproduction. The intelligent selection of surements an average figure is comthe most suitable material for a given puted, which represents our basic figure for the dry product.

Dehydration - Outlets

Our next step-and a truly important one-will be to determine the dehydration, or shrinkage, factor for the product. This factor must of necessity be based upon past experience and performance, for it varies with each manufacturer. It thus becomes a variable factor dependent upon the method of production used and outlet material decided upon. For example, the use of teflon will necessitate a higher shrinkage factor over metal We add this factor to our basic sample size and arrive at our final outlet size.

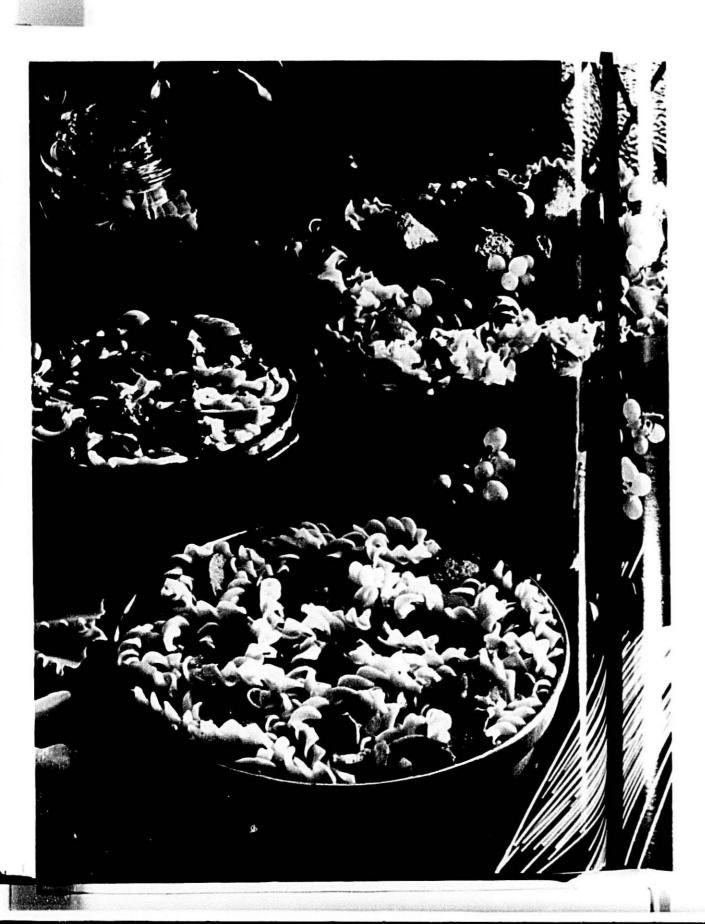
Our next calculation, which often presents a problem, is the determination of the number of outlets per Die. We find ourselves in a peculiar and sometimes embarrassing position on this point, for we have the extruder manufacturer on the one hand who has already set the rate of production thickness to consider. We have shrinkfor his press and who wants the Die manufactured with as many outlets as the inside diameter. The shrinkage facpossible, and the macaroni manufac- tor is greater for the outside diameter turer on the other hand who expects than for the inside diameter, and exa perfect product from his Die. What treme care must be exercised in draware our problems? If the Die is designed with too many outlets we may ticular characteristic must be given veal no record of such a Die being be faced with the following possi- close attention. Should we miscalcu-

1. The Die may be too weak, reach its yield point, and bend under pressure.

- 2. The dough may not have the opportunity to properly amalgamate prior to extrusion, which may result in a weak, low density product.
- 3. The press operator may feel that the extension rate is too great and make his mixture a little harder with subsequent damage to the Die.
- 4. We may get too much overlap on the sticks and consequently encounter difficulty in drying.

If the Die is designed with too few holes, we may get far too much back pressure with possible damage to either or both the Die and the press. In addition, our volume of production will be curtailed. In this respect collaboration with the macaroni manufacturer is essential in order that his requirements may be satisfied.

The Die with a pin presents additional problems, for we have wall age both on the outside diameter and ing up the specifications, for his par-



Peavey



Sales Offices

Market Mr. Artist and Mr. Artist and Mr. * * * * * * A

A 200

Extrusion Dies

(Continued from page 19)

late, then our wall thickness will be either too heavy or too thin with subsequent difficulty in drying, packaging. and cooking.

Repairs & Reconditioning

We must next decide just how often Dies should be returned for repair and reconditioning. Every three months? Every six months? The answer is dependent upon a number of production and handling factors. A Die in continuous production must of necessity be repaired more often than a Die in limited production. The responsibility of setting tolerances for the product sizes rests with the manufacturer. Once these tolerances for the various products have been set, it will be an easy task to determine wear on the Die and return it for repairs. This task may be facilitated by the use of gages within the specified tolerances on the Die, or by enlisting the aid of quality control on the product. In view of the many variable factors which influence final product size, it may be beneficial to work out some program involving Die wear, though it most certainly will be more practical to work on product tolerances-which may result in a colossal headache.

Let us not be under the mistaken impression that all difficulties are the result of Die wear. This is not so, for improper maintenance will result in serious problems. For example, a Die not properly cleaned will have a thin crust of dough left on the outlet. This will affect both product size and ap-

Pressures may have a decided effect on the extruded product. One problem which has gained prominence is the Noodle with a slight twist. A Die extruding 1000 pounds per hour manu-factured to identical specifications as a Die extruding 3000 pounds per hour will not give the same twist as the latter Die as a result of different extruding pressures. The twist will be in direct proportion to pressure. Similarly, pressure may affect the wall thickness of the product. We find the same things apply to all products rently called for. which curve or twist, such as Elbows, Rotini, Sea Shell, etc., etc.

Inserts are manufactured in two ways ping containers, and may be applied

insert which is completely finished outside the Die, and the insert that is finished in the Die itself. The former category includes inserts such as teflonized Noodles, Spaghetti in clusters, Rotini, Sea Shell, etc. We very strongly recommend that Dies be returned for replacement of all inserts because the chambers of the Die may be distorted making installation difficult. Forcing the insert in the Die may close the outlets or possibly distort the insert. If the insert does not fit properly we may get dough leakage which invariably changes the outlet specifications. If the insert protrudes slightly we get knife breakage. If the insert is recessed, then we will get a poor product cut. Should the Die be bowed or bent, we may encounter any of the above difficulties. The extruding surface of the Die may be damaged by the knife or during handling, and this condition must be

With reference to the insert which must be finished in the Die, in many instances this type insert may be used to obtain a greater number of outlets

In conclusion, we have just scratched the surface on the subject of Dies. Each Die is customized to strict customer specifications, and problems peculiar to individualized operations and conditions are given close scrutiny. We welcome your questions, your advice, and your suggestions. We extend our cooperation and help to the full extent of our knowledge, manufacturing skills, and facilities.

DPSC to Require **Bar Code Markings**

Bar code markings will be required by the Defense Personnel Support Center (DPSC) starting in July on all shipping containers and selected documentation for all subsistence items except brand name resale and chilled freeze perishable items.

Navy Captain James E. Miller, director of subsistence for DPSC, said the 3-of-9 machine readable bar code symbology will be required in addition to the standard military markings cur-

The har code markings for the national stock number of the contract On the subject of insert replacement: number will be required on all ship-

-the independently interchangeable by means of labels, Miller said. The 3-of-9 code, in addition to being machine readable, can be visually iterpreted.

The new marking requirement san implementation of the Departme t of Defense's Logistics Application of Automated Marking and Reading Symbols (LOGMARS) program. The use of machine-readable bar coding on shipping containers will expedite the handling of the items and reduce costs by eliminating paperwork involved in receipt, inventory control and shipping.

In addition, bar code markings also will help DPSC manage the items more efficiently. When shipments are received at defense depots, they will be machine scanned and the information fed directly into the depot's compu-ters, making it immediately accessible to DPSC's computers.

Use of the new marking system will enable inventory managers to have more timely information concerning the items they manage, as well as, provide an expeditious and cost savings system for the selection and shipping of supplies at the depot level.

Documents Available

Detailed requirements for this new marking system, including size, density, contrast, and code pattern are incorporated in MIL-STD-1189, Standard Symbology for Marking Unit Packs, Outer Containers, and Selected Documents, and in Change 3 to 111L-STD-129H, Marking for Shipmen and Storage. These documents may b obtained from the Naval Public: ions and Forms Center, 5801 Tabor wenue, Philadelphia, Pa. 19120, 6 by calling (215) 697-3321.

Contractors wishing more info mation may call Tom Frank (215) 152-2977, or may write the Defense Personnel Support Center, ATTN: D SC-STS, 2800 South 20th Street, I siladelphia, Pa. 19101.

DPSC buys and manages app oximately 1,623 subsistence type i :ms. including rations, for the military services and other federal agencies under a worldwide storage and distribution program. In Fiscal Year 1981 the center purchased more than \$1.4 billion worth of subsistence items.

DPSC purchases elbow macaroni, spaghetti, egg noodles, and lasagne for the military.

Processor-Broker Relc ionships

NI IA Executive Vice President Char ; F. Haywood advised the Ozark I od Processors Association today t' it the industry must avoid looking for "the quick fix or the short term solution rather than improving on the basic sound principle of processor-broter relations which have been established for years."

Unfortunately," Mr. Haywood entinued, "too often a relationship has existed for years between the processor and the brokers and the new people on the scene do not know the reasons that have made it special and uccessful."

Mr. Haywood spoke to the Ozark Food Processors Association at their meeting at the Fayetteville Hilton in Fayetteville, Arkansas. His talk highlighted responses he received from an nformal survey of NFBA members on how they felt relationships with procasors could be more effective.

Ties for Processors

He passed along the following points o the processors:

- ... real motivation comes from the involvement process that allows the broker to become a part of his (the processors) business team.
- if he (the processor) is not willing to et involved with his brokers and to un erstand the responsibilities and the m ivating factors involved, he cannot g the same results as the principal w really tries to understand and work ith his individual broker oper-
- he processor we represent most sacce fully are those who believe in dialog e as opposed to monologue . . . where principals allow us to represent comp ing items we do an excellent e reason being that we have a very rong motivation to do so."

Mr Haywood also reported to the Ozark processors that brokers feel they work best as an integral part of the procesor's organization. Attainable trips or premiums.

JULY. 1982

Mr. Haywood also reported that brokers state their motivation is selfgenerated "because we don't make a buck until we sell something." This ties in with the practice of some private label manufacturers of holding major volume customers as house accounts, offering the broker participation in the smaller volume accounts. "As a result, the broker recognizes the limited potential, and will fail to devote the energies and efforts towards building a business in an area where he feels his future income will be limited," he told the Ozark processors on behalf of NFBA members.

Other points passed on by Mr. Haywood included more flexibility on the part of the manufacturers, more attention to local market conditions, more product information the brokers can use for selling, and closer communication between brokers and processors.

Wholesale Grocers' Convention

Steve Weinstein, Supermarket News columnist, reports: "The future is bright for wholesalers - and ostensibly for retailers as well. In his traditional talk as chairman. Ted Wetterau predicted good times would come soon. borne on the wings of a recovery by the economy and a technological revo-

Prefacing a thought-provoking, hard-hitting talk, Super Valu's Jack Crocker said the future of grocery wholesaling is as bright as, or brighter than, ever before.

But many -- including some of the optimists - have great doubts about the here and now. And Crocker, while optimistic in general, implied that the bright future might be in a somewhat different form than the way business is being done today, and some of those firms now operating might not be around to share that future.

Although he expressed great faith that the natural forces of the free-enterprise system would prevail and lead to efficiencies and benefits for the congoals should be jointly set, and attain- sumer. Crocker warned that capitalism ment should be rewarded. By and large, does not bring with it a free ride to according to the NFBA executive, bro-riches. Rather he referred to it as "a ters would far prefer rewards in the cruel, self-cleaning system that will form of bonus incentives, rather than weed out the weak and benefit the strong."

Wetterau, in paraphrasing the introduction to Charles Dickens' A Tale of Two Cities, conceded that while the best of times might be forthcoming for wholesalers, the present, in many respects, constitutes the worst of times. The problems today, he said, include economic uncertainty, "disinflation," energy costs and expensive money.

One problem, everyone agrees, is that of economic conditions, coupled with an expectation that the cost of money this year will stay high.

Money Squeeze Hurts

The money squeeze really is hurting wholesalers Panelists at an Executive Roundtable workshop made such statements as: "Every retail account wants more; if we do everything they want, we will go broke," and "we prided ourselves that we could offer more than chains or co-ops. We will have to look at it differently."

What they are looking at includes: changing the fee structure; cutting down on some services and sharing others; offering fewer products, and being tougher on employees who do not perform.

Ed Walzer reported survey results concluding that while most executives feel Reaganomics will de the job, virtually none expect any real growth in the short term and, for many, a superior performance this year equates with not losing any ground.

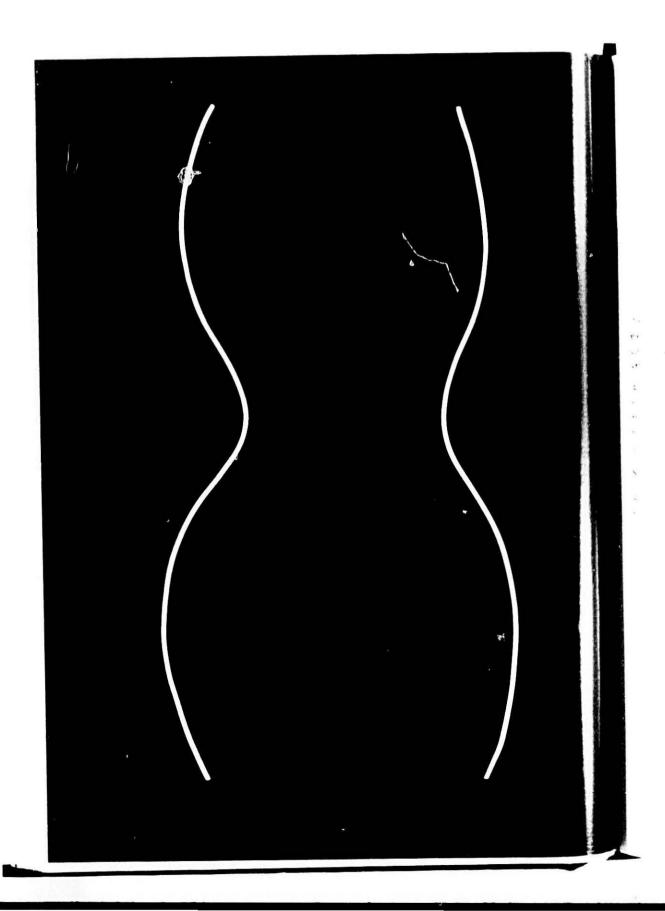
The strong, well-managed retailers and wholesalers continue to do well. but even some of them are having problems. And it's agreed that the weak are getting weaker.

Wave of Industry Mergers

One result has been the great wave of industry mergers in recent months, which obviously has not yet crested. Walzer's statistics show that 70% of executives polled expect "a flurry" of mergers and acquisitions this year.

Some of the firms that are potential merger partners are in good shape and are amenable to sell for other reasons. But many are in trouble because of the economy. And for the buyers, acquisitions of a viable company can be a more economical way to expand into a new operating area than doing so from scratch with the high cost of acquiring capital.

(Continued on page 26)



Pasta draws a fine line

Most everything about pasta is positive.

Pastas — let's tell it like it is.

ADM

ADM also supplies quality shortening consequences.

(i) sore professes dough conditioners and offer wheat quite for the pasta and dialong industries.

Wholesale Grocers

(Continued from page 23)

The general feeling of uncertainty pervading the industry has affected manufacturers as well. "Our credit department has never been so nervous." one supplier executive said.

More than ever before then, the stress is on good management and intelligent use of capital if most companies are to prosper and if some are to survive.

Emphasize Value

As changing demographics, the economy and other key factors affect the way consumers plan, shop for, prepare and serve their meals, it has beadvertising/marketing executive conference recently.

Marion Plankett, vice president and ther in Canada, also described how her advertising agency had taken advantage of Dominion Stores' reputation in planning an ad campaign for the chain.

dent and director of research for Ogilvy & Mather in New York, outlined general issues food marketers will face in the '80s. Herbert Zeltner, president of Herbert Zeltner Marketing, Bedford, N.Y., discussed the impact of cable television on advertising.

What Affects Shopping Habits

shopping patterns include changing a more versatile, more complex media ers relate so little to product fur tion demographic patterns, such as smaller families; economic pressure, "which means everyone wants to save money": information overload, caused by numerous food publications, including ing under-capitalized companies that in directing product straight to the conthose in the health and gourmet fields, and the changing home environment. There are more working wives, Plunkett noted, and more men are becoming involved in food preparation.

These and other factors, she said, are making value more important and a concept retailers should reinforce. She suggested this could be done by "maximizing" in-store promotional activity, providing more information on specials, emphasizing coupons, insuring that generics provide a value, simplifying labels and "spending more time now.

and attention providing a more pleas- Coupons Criticized ant atmosphere," among other meth-

Plunkett also talked about her company's work with Dominion Stores. The chain's long-standing slogan, Main-ly Because of the Meat, had helped give it a strong meat image. The agency wanted to capitalize on this image, she said, but at the same time expand it to other aspects of the operation. It came up with a new slogan, You'll love Us For More Than Our Meat, which was used in TV advertising and also adapted for newspaper ads to promote gift certificates and other special programs.

Stewart said that where in the 1950s-1970s, power in the marketplace flowed from the food advertiser down to come increasingly important for re- the consumer, this has now become retailers to emphasize value, said a speak- versed, with power stemming from the er at the Food Marketing Institute's consumer. The consumer today, she said, feels more competent about making decisions. Another change, she said, has been a move from a pragmadirector of research for Og'lvy & Ma- tic approach to eating to treating it as an event and a status symbol. At the same time, people are moving away from being conformists to becoming individualistic and venturesome in their Jennifer Stewart, senior vice presi- eating habits. Once-predictable shopping, she said also, has become ad/hoc and opportunistic.

Zeltner noted the eventual result of the proliferation of cable TV stations for proper handling. Hensen contented. is still unpredictable. Among its advertising implications, however, is the op- ficult for us to understand why couportunity it gives retailers for low-cost, pons are so popular. localized advertising. Another important factor, he said, is its lack of re-Plunkett said key trends affecting striction on commercial lengths. It is choice, he said. Among problems still to be worked out with cable, he said however, is its spotty geographical coverage, financial complexities involv- with the idea that your dollars are pent are in the field, programming problems, copyright uncertainties and aument is with the high administ ative dience research difficulties.

> The outlook for TV overall, he said, includes the continued evolution what is described by some reps as flexof revolutionary forms such as cable; ibility" in the use of cooperative dolcontinuing network share declines and lars. Henson said "some of the expecincreased localization for "narrowcast- tations from those funds are so loose ing." A new, strategic role for broad- they have to assume the manufacturer cast advertising may be on the horizon, has no plans to deliver direct value to he said, as opposed to the "primitive, the customer with the money spent. It blockbuster effort" it has been until

The president of Jewel Food tors criticized manufacturers' use o coupons, refund offers and co-op fu ds in a speech before the Promotion Marketing Association of America.

James H. Henson said brand manufacturers should adopt a "generic mentality" and justify every penny spent on "noningredient costs" such as coupons, while insuring these costs represent value for the consumer. He added that manufacturers who do not heed the warning would produce an even greater "umbrella" under which generics would continue to grow.

Customer's Demand Choices

"Jewel really has no stake in preserving generics. But we are committed to offering the choices our customers demand.

But he quickly added that it would be presumptuous for the chain to question the manufacturers' marketing strategy. "We only challenge them based on the effectiveness we see in our market," he said.

Hensen listed four "sacred" noning gredients costs that should be chal lenged

-The manufacturer coupons is an expensive tool that creates little store display activity and is difficult to police "Except for special purposes, it i dif-

Refund Offers Relation

-"It is my opinion that refun offor product characteristics that it ould seem to be an execellent exam; e of inefficient marketing costs. Yet, I gree sumer. I suppose my greatest dis arecost of refund promotions."

-Although he said he appre iates appears to be a method of refunding dollars or value to the consumer."

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Quarterly Durum Report

The U.S. Department of Agriculture reports durum stocks up sharply, prices fell.

Pianting Intentions

The Crop Reporting Board on February 1, 1982 reported that farmers intend to seed 4.66 million acres of durum wheat in 1982, 21 percent less than last year's 5.88 million acres and 16 percent less than the 1980 seeded acreage. Decreases in acreage from last year indicated in all States. North Dakota's sæded acreage is down 17 percent from the acreage planted in 1981. According to the North Dakota Crop and Livestock Reporting Service, fieldwork by the end of April was in full swing as warm windy conditions promoted field drying. Durum plantings were about 10 days behind the average pace with 11 percent of the acreage planted compared to 39 percent a year ago.

Durum wheat stored on all positions on April 1, 1982 totaled 132 million bushels (3.60 million metric tons), 59 percent more than last year's 83.3 million bushels (2.27 million metric tons). Farm holdings of 106 million bushels (2.88 million metric tons) were 76 percent greater than last year's 60.6 illion bushels (1.63 million metric tons). This year's farm stocks accounted for 80 percent of the total durum stocks compared with 72 percent a year ago. Off-farm stocks of 26.7 million bushels (725 thousand metric tons) were 14 percent more than last year's 23.3 million bushels (634 thousand metric tons). Disappearance during the January-March 1982 quarter totaled 20.1 million bushels (546 thousand metric tons) compared with 20.2 million bushels or 549 thousand metric ton disappearance during the same period a year ago.

Exports

U.S. exports of durum wheat during the June-March period totaled 1.7 million metric tons, an increase of 497.4 thousand metric tons in comparison with the previous year's figure of 1.2 million metric tons. Algeria, zuela imported a total of 1.3 million metric tons. Exports of durum wheat out of Duluth/Superior since the open-

DURUM WHEAT: PROSPECTIVE PLANTINGS, FEBRUARY, 1962

		Area Planted		
State	1900	1981	Indicated 1982	1982 198
	100	1,000 Acres	Pe	rcent
Minnesota	140	140	76	
Montana	470	490	350	7
North Dakota	4,400	4,600	3,800	
South Dakota	250	260	230	8
Arizona	160	216	110	5
California	105	170	95	56
United States	5,525	5,876	4.661	793

comparison with 7.8 million one year ago, a decrease of 1.7 million.

Canadian durum wheat acreage cut 200,000 acres. According to Canadian Statistics, based on March 15 findings, Canadian farmers plan to decrease durum wheat plantings by 5.2 percent and if acreage intentions are carried out prairie farmers will plant 3,650,-000 acres compared to 3,850,000 grown in 1981. The visible supply of Canadian durum wheat in licensed storage and in transit on April 28, 1982 amounted to 824.8 thousand metric tons, 103.8 thousand greater than last year. Canadian exports of durum wheat in the June-March 1981-1982 period amounted to 1.9 million metric tons compared with 1.7 million one year ago. Algeria, Italy and the U.S.S.R. were the largest importers taking a total of 1.7 million metric tons. Algeria signed a trade agreement with Canada to increase imports of Canadian durum wheat by 50 percent over the next three years.

Planting Progress

Though cool and wet weather delayed the start of planting in North Dakota, warm and sunny conditions facilitated rapid progress. Moisture conditions were much better than in recent years. Topsoil moisture was dequate in 95% of the state, surplus in 5%, while subsoil reserves were 89% adequate and 11% short. A year ago, topsoil and subsoil moisture was 60% short statewide, and two years ago drouth conditions prevailed.

Durum in Greece

An 8% increase in the acreage in 34 years ago. Italy, Netherlands, Tunisia and Vene- Greece planted to durum wheat was

ing of the shipping season through May noted by the Foreign Agricultural Ser-7, 1982 totaled 6.1 million bushels in vice of U.S.D.A. The rise was attribvice of U.S.D.A. The rise was attributed to European Community policies that are aimed at spurring durum production, as compared to soft wheat. Creece's soft wheat acreage has been reduced about 3%.

> The F.A.S. also said that it is possible that Greece's barley acreage, for both winter and spring varieties, will be reduced for the 1982 crop, due in large part to shifts to durum wheat

Jim Feeney Elected Chairman of Millers **National Federation**

Coming to the Federation's chairmanship at a time of major change in the character and even goals of the organization, at a time when flour milling is experiencing a high degree of turmoil, as well as domestic gr wth. and when the national and in :rnational economy are under stress, . imes J. Feeney is described by his pe is as highly qualified to take over the ost."

From General Mills

As vice-president and general nanager of the Sperry Division of Jeneral Mills, Inc., Minneapolis, Mr. Feeney heads one of the largest specialty" flour milling operations

His experience at General dills should be particularly valuable, ince that company, once dominated y its flour milling operations, is now t oadly diversified into a number of areas that might appear to relegate flour milling to a much less important position than was the case during the two years when the late Gerald S. Kennedy headed the Federation 26 years ago or when Mr. Feeney joined the company

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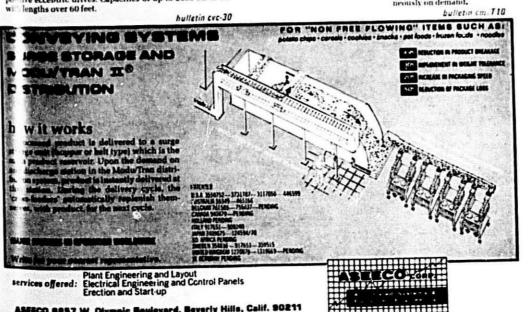


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The Modu-Tran II Vibrat ing Conveyor feeds product sideways as well as in the ormal forward direction This unique development by Assecto Corporation makes it possible to split a stream of product to any rates of flow sired, with sanitary esthetically designed vibrators L'nits can be installed in series to distribute product to multiple packaging machines or eral use points simultaneously on demand.



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Jim Feeney Elected

(Continued from page 28)

Besides the eight flour mills scattered across the country, the Sperry Division has two food service plants, at St. Charles, Ill., and Lodi, Calif. These plants produce a broad line of flour mixes specially formulated for the institutional trade (different from the company's consumer mixes but drawing on grocery products research capabilities), sauces, puddings, potato products, and breakfast cereals.

Just as the Sperry Division serves as a "base of equity" for General Mills, it is Mr. Feeney's opinion that the Wheat Flour Institute has the same relationship to milling. This opinion not only reflects his status as the newlyelected chairman of the Federation, but also as a former chairman of the M.N.F.'s Wheat Flour Institute Com-

From Mr. Feeney's point of view, the Federation actually has a "new charter" to focus its programs on membership services, technical matters and on assisting with specific governmental actions of importance to the industry. For the Wheat Flour Institute, that "new charter" focuses on positioning of the milling industry, not on public relations aimed at improving end-user appreciation for wheat flour foods, as has been the case in the past. "One of our most important tasks will be to position milling as an important part of the national economy," he noted.

Millers Refocus Activities

Membership dues of Millers' National Federation were reduced by 40% for fiscal 1983 and commensurate reductions were made in the year's operating budget as part of a basic refocusing of Federation objectives and activities at the meeting of the board of directors in Palm Beach on April 21. The reduced budget reflects a change toward a more narrowly-focused Federation, with emphasis on maintaining a recognized presence in specific areas targeted solely to milling.

The 1983 budget for the year that began April 1, 1982, reflects expected income of \$626,575 and total expenses of \$591,520. Actual expenditures in \$27,684,000, equal to 38¢ per share the past year amounted to \$839,992.

Wheat Flour Institute

A scaling-down in activities of the Wheat Flour Institute is the principal

budget-reducing development for fiscal 1983. Howard S. Holmes of Chelsea Milling Co., Chelsea, Mich., chairman of the Federation's W.F.I. Committee. presented its recommendations to the board. For 1982-83, the sum of \$62,- ended March 31, 1981, the eff at of 825 is budgeted for W.F.I. and this is down from \$220,000 for 1981-82, inventory valuations reduced net carnwhich marked the start of a transition period as the Wheat Industry Council prepared to inaugurate its promotional efforts. The W.F.I. budget for two years ago was \$300,000.

Included in the W.F.I. budget for fiscal 1983 are funds to phase out existing programs, including Bread Fair ments. That program is expected to become self-sustaining as operated by Sandra Day Enterprises. Also included are final production costs on a cake flour film strip, now near completion. No Sandwich Contest is planned. The budget for W.F.I. includes \$15,000 as available for expense as necessary. or for response to any problems aris-

Leaner Staff

Further budget reductions reflect plans for a "leaner staff" in the coming year and combinations of job descriptions are under way. Recent resignations from the staff were those of Alison M. Heath, director of agricultural relations and export activities, and Lucien D. Agniel Jr., director of technical activities.

The Federation dues rate for fiscal 1983 is \$0.0022 per cwt of flour production in the previous quarter, down from \$0.0037 in 1982 and for a number of years prior to that. The dues rate on durum and rye mills is unchanged at \$0.0009 per cwt.

Robert M. Howard of International Multifoods Corp., Minneapolis, chairman of the Federation's Finance Committee, presented the budget and dues recommendations to the directors.

A D M Third Quarter

Net income of Archer Daniels Midland Co. in the third quarter ended March 31 was below the comparable period a year ago.

Net earnings for the quarter totaled on the common stock, based on average shares of 72,593,000 shares. Net income in the third quarter a year ago was \$51,556,000, or 75¢ a share, on 69,087,000 shares outstanding.

The effect of commodity pri de creases on last-in, first-out inv story valuations increased net earnir s b \$39 million, or 54¢ a share, the first nine months. In the nine r out commodity price increases on .IFO ings by \$38 million, or 58¢ per share.

Peavey Announces Third Quarter, Nine Month Earnings

Peavey Company announced net earnings for the third quarter ended April 30, 1982 of \$1,729,000 or 28 cents per share on sales of \$178,579,-000. This compares with net earnings of \$4,505,000 or 79 cents per share on sales of \$204,262,000 for the same period a year ago.

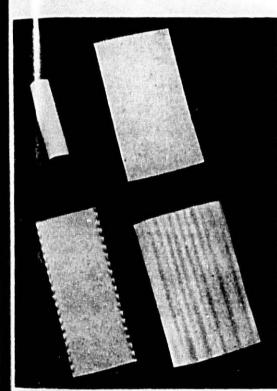
Net earnings for the nine months ended April 30 were \$10,349,000 or \$1.77 per share on sales of \$568,808,-000. This compares with net earnings of \$17,676,000 or \$3,15 per share on sales of \$626.888.000 for the first nine months a year ago.

Peavy Chairman and Chief Executive Officer William G. Stocks said: "Agricultural and Food Group carsings declined substantially. Grain and flour volume for the third quarter and nine months was about equal to a year ago, but margins were sharply 'ower as extremely competitive conditions in grain merchandising and flour n illing continued." Last year's Food (roup earnings for both periods refleced a gain on the sale of the Brow verry

Retail Group sales and ea sings were up for the quarter and nine months, though last year's e: 1ings were reduced by a loss relating , the disposition of U.S. Floor System Inc. Fabric store sales and earning improved for the quarter and nine months. Farm store earnings im, oved slightly for both periods in si e of poor farm economies in both th. U.S. and Canada. Building Supply sults continued to deteriorate due to depressed conditions in the building in-

"Without improvement in our cufrent operating environments, the pattern of lower earnings seem in our first nine months will probably continue for the fourth quarter," Stocks said.

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Ten Companies Predominate On the Italian Market

In the last 50 years, the making of pastas has passed from the level of cottage industry to the status of medium - as well as large-scale industrial production.

At the end of World War I, 600 I companies were engaged in making pastas on an important level. Today, there are about 300. Of those, 10 account for about half of total production. Eighty percent of annual output is due to the top 40 producers. The remaining 20 percent is divided among small companies and virtually shoptype producers.

The top 10 pasta-makers and their duction of pastas. The company was percentages of production are as fol- founded by a family of pasta makers

lows:		from Parma. The	firm is a leading ex-
Firm	Headquarters	Type of Production	Percentage (National output = 100%)
Barilla	Parma	Milling and manufacture	17%
Buitoni	Perugia	Manufacture	6%
Amato	Salerno	Milling and manufacture	5%
Agnesi	Imperia	Milling and manufacture	4%
De Cecco	Fara San Martino	Manufacture	3.5%
Ponte	Ponte San Giovanni	Milling and manufacture	3%
Voiello	Naples	Manufacture	2.5%
Federici	Terni	Manufacture	1.5%
Spiga d'Oro	Perugia	Milling and manufacture	1.5%
Pezzullo	Salerno	Milling and manufacture	1%
Total of the 1	0 top producer	5	45%

Paolo Antolini writes in the publication: "Italian Wines & Spirits" that Italy is clearly the world's leader in the manufacture of pasta.

Italians consume 25 kilos of pasta per person per year. Americans manage to eat about 5 kilos each, while the French do a bit better, putting away 6.5 kilos per capita a year. Pasta exports toward the commercially emerging countries represent a major factor in Italian trade.

It is not often realized that a basic equilibrium has been achieved between Italian production of hard-grained wheats and the large quantities of pasta consumed within the country. The fact that Italy each year imports a certain quantity of hard wheat is due are required for the intensive manufacture of specialized products. These

are special grains for blending. The second factor is that grain must be imported because exports of pasta and flours or meals have attained a considerable and growing level.

Self-sufficiency in hard grains has been achieved by Italy in recent years through advanced technology. The primary problem that had to be overcome was the scarcity of land that could be cultivated in hard-grain wheat in the zone where the crop grows best-the south, which has a dry, hot climate. The first step was to select varieties of grain that could grow and produce in the north-central regions, including the Po Valley, where the climate is notably temperate and damp. In the search, many hybrids were tested. Eventually private and public institutes were able to obtain results, through research and primarly to two factors. Some grains experimentation, that can be considered among the best in the world.

Page Progr	CERSON HOME A	- Company work	The same of the sa	
	France	W. Germany	Nether.	J.K.
Number of makers (production				
capacity exceeding 1 ton a day) 20	30	4	7
Workers involved	2,722	2,040	275	500
Production in tons	291,300	210,300	32,000	4,110
Exports in tons	15,569	10,032	2,350	1,268
- Within EEC	9,543	4,510	646	389
- Other countries	8,027	5,522	1,684	879
Import in tons	51,510	48,433	8,340	20,171
- Within EEC	49,549	46,413	7,197	17,308
- Other countries	1.961	2.020	1,143	2,863
Total consumption in tons	327,245	248,701	37,990	43,009
Per capita consumption in kilos	6.11	4.1	2.7	0.77
The statistics - for 1979 - were pr Associations of Pasta Producers (ovided by t	he European F	ederation o	

Braibanti and Co. of Milan is porter of equipment, that activity Europe's leading maker of machines amounting to 30 billion lire (about \$30 and other equipment used in the pro-million) in 1979.

Other leading equipment manufac-turers are Buhler of Uzwil, Switzerland, Pavan of Fallieva Veneta in Italy's Treviso province, whose exports amounted to 20 billion lire in 1979, and Bassano of Lyons, France.

World	pasta	consumption
		pita annually)

12 12

Italy	
Argentina	
Tunisia	
Libya	
Venezuela	
Spain	
Switzerland	
Chili	
Greece	
Peru	
France	
West Germany	
East Germany	
United States	
Bolivia	
Somalia	
Yugoslavia	
Turkey	
Canada	
Australia	
Austria	
Netherlands	
Belgium	
Egypt	
Japan	
Britain	

World pasta production (Figures represent thousands of

Italy	1,60
U.S.A.	70
Spain	35
France	30
Argentina	25
W. Germany	20

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JULY, 1982

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9—Troubleshooting Compressor Oils.

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Italian Pasta

(Continued from page 32)

For example, the National Research Institute, using radiation, was able to alter the DNA properties of the cells of wheat grains, producing the Creso variety. Creso wheat thrives in moist climates and its yield is comparable to that of soft-grain wheats. It also makes a superb pasta. At the same time, Italy has been able to achieve wonders in respect to intensive cultivation, establishing a world record in absolute terms in yields per hectare.

Two Kinds of Pasta

There are two kinds of pastadried or "Italian pasta by the Neapolitan method"-and fresh pasta, whether smooth or stuffed. While some fresh pasta is made commercially, they are still very much a product of the home or small shop, whether prepared by hand or by machine.

Fresh pasta can be and often is made with soft-grain wheats, and eggs are frequently added to it. The amount of moisture in the fresh pasta is not limited as it is for dried pasta. However, there is a restriction on such pastas that are sold in sealed packages. whether under vacuum or sterilized. The moisture levels of those packaged fresh pastas must not exceed 30 per

However, dried pastas are much more widely distributed and they are much more easily preserved and so quite convenient. Moisture levels can not exceed 12.5 per cent. The process is not simply dictated by Italian law (No. 58 enacted on July 4, 1967). It is also in keeping with the finest tradi-tion of pasta making and is intended to result in a product that is good in itself, highly adapted to conservation and extremely nourishing.

Next month: The Contribution of Milling.

Grain Export Nations Accuse One Another

The major grain exporting countries whose farmers are being hurt by weak grain prices and rising costs, accused one another of using unfair sales practices to unload surplus grain on the international market.

The recriminations were voiced during a two-day meeting of senior government officials from the U.S., Canada,

Australia, Argentina and the 10-nation but following the significant is rease Common Market in Ottawa in April.

It was the highest-level meeting of grain exporters attended by the Reagan administration since it took office.

The U.S. representative, Seeley G. Lodwick, under secretary of agriculture, warned the other grain exporters that the U.S. government has the legislative authority to match competition on the international grain market through export subsidies and special credits, if necessary.

To relieve surplus grain pressures, he said the U.S. has acted "decisively" through its acreage reduction program and its grain storage reserve policy. He called on the other grain exporters to take similar action

its longstanding practice of subsidizing grain exports of European farmers.

The U.S. also complained that countries like Canada and Australia with state marketing boards were more disposed to offer special credit terms to win grain sales than a country such as the U.S., which lacks such an

U.S. Criticized

The U.S. in turn was critized for allegedly using its political clout to dominate markets of certain countries such as South Korea and the Philippines.

Sir Leslie Price, chairman of the Australian Wheat Board, said Australia doesn't regard "political persuasion" in that responsibility. as an appropriate lever to increase

He said the U.S. is currently sole supplier of wheat to South Korea and the Philippines and has been trying "through its influence on the Indonesian government" to increase "the U.S. ing resolution: share of that market at Australia's expense." He said the U.S. had also asked India for 100% of its wheat market in the current year, making Australia's wheat negotiations with India late last year "difficult."

The recriminations reflected the pressures the wheat exporting governments are experiencing from their farmers, who, a U.S. official said, are fucing the lowest prices relative to cost in 40 years.

In a joint statement, the wheat exporting countries generally agreed that the prospects "for longer term growth in world wheat trade remained good, in production this past year, a 1 veling off in trade could occur" in the 1982. 83 crop year that starts this sur mer.

U.S. Durum Growers Association

A new slate of officers was elected to head the United States Durum Growers Association, at the annual meeting of that group in Cando, N.D. on March 27th.

Monroe Scheflo of Bottineau, N.D. is the new president of the organization succeeding Norm Weckerly of Hurdsfield. Scheflo, a Bottineau area farmer, moves up from the office of vice president. He has been a director of the association for five years; and Much of the criticism at the meeting was a member of the trade team, sponwas aimed at the Common Market for sored by U.S. Wheat Associates, which conducted crop quality seminars in Europe in 1980.

> Moving into the vice president's chair is Jerry Thuesen of Reserve, Montana. The new secretary-treasure is DuWayne Tessman of Goodrich. N.D. One new director was elected at the annual meeting. Herb Olson of Langdon was named to replace Le land Nelson of Wolford.

A board of directors meeting was held on April 19th, with the new officers presiding. At that meeting, Bill Ongstad of Manfred, N.D. was named Durum Growers representative to North Dakota Wheat Commission meetings. He succeeds Monroe 5 :heflo

Durum Forum Date

In other business, the direct is set November 11th and 12th as the dates for the 1982 International Jurum Forum. They also adopted the : llos-

"Since it is in this nation best interest to maintain adequat supplies of food stocks for both omestic use and for export markets hereby be it resolved by the 'nited States Durum Growers Asso lation that the United States Department of Agriculture give consideration to raising the storage rate for durum wheat produced in the United States. Also that it give favorable consideration to a guarantee on farm storage facilities."

International Durum Forum Minot, ND - Nov. 11-12

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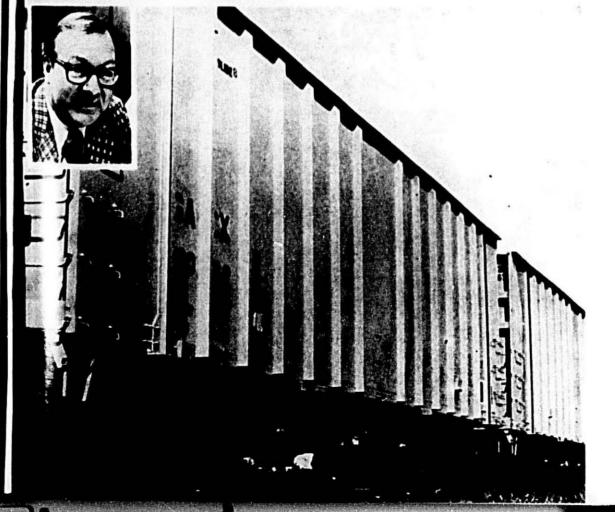
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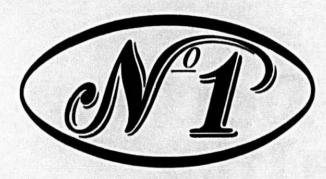
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- 1 in IRAN 1 in HOLLAND 1 in RUMANIA 1 in TURKEY

113 of which 53 are for long pasta, 60 are for short pasta . . .

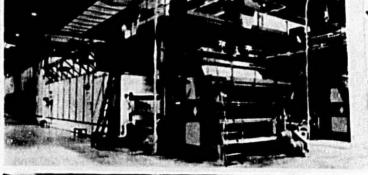
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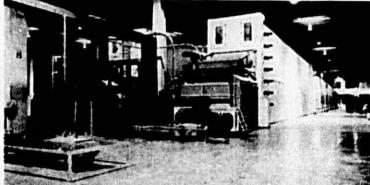
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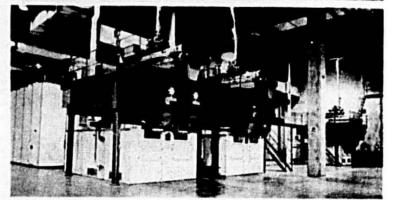
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37

FAMILY BUSINESS COLUMN

by Frank M. Butrick, Akron, Ohio PART II - UNDERSTANDING THE FATHER/SON RELATIONSHIP

of great satisfaction and pride - and justifiably so. It is the result of years of dedication, of hard work and skill. So it is not surprising that the owner views his business as more than merely his source of income; he has far too much of himself invested in it. It is his own personal creation, a tribute to his abilities - literally, his life's work. And so it is perfectly natural, then, for the owner to want to see his business survive - to see it outlive his own working years. Undeniably, too, there is great personal satisfaction in having a son choose to "follow in his footsteps", to join the business, to work and learn, and someday continue the business on his own. However, making this wish into reality is not easy.

Sons have wishes and dreams of their own, which may not coincide with those of their fathers. Businessmen, preoccupied with their businesses and their own plans, often fail to see this divergency of goals. In part, the son's viewpoint is derived from the likelihood that he does not make career decisions in an adult manner he simply reacts to his parents, and particularly to his father. Therefore, to understand his son, the businessman should first study his mirror very care-

Father, Know Thyself

Educators cannot create entrepreneurs, but they do claim that individuals with entrepreneurial ability can be found before high-school age. Not by scholastic attainment or athletic prowess or social accomplishments, but because they "hear a different drummer". Entrepreneurs are people with drive and self confidence, faith in his own ideas, and a willingness to focus upon their work to the exclusion of virtually everything else.

The business founder is usually not a college graduate; impatient to try out his own ideas, he goes to work. Ironically, he turns out to be a poor emsome; he believes his own way is best. with his adolescent prejudices and some join their father's business be

wnership/management of a So he starts a search for an employer successful business is a source smart enough to appreciate him. Finally, somewhere between the ages of 25 and 35 (usually), frustrated and unhappy, the typical entrepreneur-to-be quits working for others and starts his own business. The only boss he is really happy working for is himself.

He Is Tenncious

He starts out with an immunity to outsiders' advice, managerial inexperience, and too little capital. His only real asset is his arrogance and stubbornness; he will not give up. His capital melts quickly and his only substitute is energy, long hours, and incredibly hard work. The business comes foremost in the tireless owner's life, absorbing him almost completely. He spends long hours at work and home at night he thinks about his business. As might be expected, his family suffers; there is just not enough of him to go around. His wife has a part-time husband, and there is even less time for the children. The fellow next door has time for little-league ball games, backyard football, and fishing trips. But not the businessman. Not so surprisingly, after observing father's inability to relax and to enjoy his family. after listening to tirades about taxes. unions, and business problems, many sons want no part of such an all-consuming business career - there are easier ways to make a living.

Of course most sons have sum jobs in their father's business. But it is usually menial work which the son can accept philosophically; September is only three months away. High school is followed by college. Father says he wants his son to have all those things he never had, including a college education. But mostly he wants son in college so he will be rid of him for awhile. He wants his son to "grow up and become a man", but to do it some-

Colleges teach jobs, not business. Those professors never ran a business so they focus on the methods of large ployee because of those very ideas - corporations. The son will learn little ual initiative. Others because they be he wants to do things his own way. that pertains to his father's business or lieve they can make more money that Orders, policy, instructions are irk- relates to his own future, so he returns

opinions intact. Too many se is an lost to other careers and the rolesions, but some return to the famils business from college.

Start Early to Share That Business

Fathers who would have their sons join their family business would start n involve them early -

1. Start to show the son at an early age (12 or 14) the "behind the scenes" planning, decision making, and risk taking involved in your job. Let him see your end of the business.

2. Show him the fun of problem solving and of challenge accepting He will start at the bottom but be certain that he also clearly sees the top. He should know both ends well by highschool age and before the break inposed by college.

Train Him in Summer

3. When your son works summer during school and college, give him the chance to find and solve problems accept challenges, do his own planning, make his own decisions, take his own risks, and make his own mistakes In short, let him try out little sample of management — of presidenting.

Talk to your son; share that be sines

with him. It is more than just a abthe business experience is the most exciting, challenging, and satisf ng d all life styles. Let him grow up 1 that life style and the chances are grat that he will accept it as his own, at will indeed want to follow you.

Why Sons Join Business

Of course, sons decide to je 1 th family business for a variety of rea sons. First and best, is the so wh was invited into the business with was 12 or 14 years old; he grew up it it, working with his father. Othe , jos because they genuinely like their ather and want to work for him, and then because they never thought of doing anything else.

Some sons join the business b. caus their fathers have sold them on the benefits of independence and individwith some other company. Of course

are lazy and cannot get a

stever the reason for joining. ning the sons wants to do is ful. So he starts making sugstions for changing or improving things. I ke all young men, he believes that he can solve the problems of the world, state, county, city and most cerinly, his father's family business. He son discovers what his father learned full generation earlier — that bosses and especially so when they are fathen) are not interested in employee's ideas. Soon father and son work out the son's job description. It is simple: "keep quiet and do as you're told".

Father Has Changed

But then, as the years roll by, the on's education is buttressed by practical experience. With maturity comes the certainty that his ideas are sound and he is eager to put them into prac-tice. But he is around 30 by then his father is in his mid 50's. And father s changed. In those early years he as a builder, taking great risks to accomplish rapid growth. But now he realizes his years are numbered; if he umbles he will not have enough time to put it together again. So he has become conservative; he is more inter-sted in protecting his winnings than in taking any major risks. He no longer risk rocking his own boat. e son becomes eager to flex erial muscles to see their lift into high gear; to go, go, ather has about decided that oing anywhere. Which creconflict which one business

MONTH: Don't Turn Your From Your Business.

ticle is condensed from a the author's book, THE AMU BUSINESS, to be released 1 Press, Box 159, Akron, OH

MACARONI JOURNAL will be printing key chapters from the book, he first ever devoted exclusively to he personal relationships within the privately-owned business, during the orthcoming months. For information on the book, contact the publisher di-

decades, been a leading consultant, convention speaker and author on the family-owned business. He has written hundreds of magazine articles through the years and his concepts have been incorporated in numerous books. He averages nearly 50 convention appearances a year, and is active as a consultant, serving business owners all over America. If you have a situation upon which you would like Mr. Butrick's comments or advice, you may contact him through MACARONI JOURNAL, or by writing the IBI Press in Akron, or calling him at 216-253-1757. There is no cost or obligation - but if you write, be patient. His heavy travel schedule precludes quick replies to his correspondence.

Chesebrough-Pond's **Appointments**

George F. Goebeler has been apcointed president of the International Division of Chesebrough-Pond's Inc., succeeding George W. Bieler who is retiring from the company. In addition, Charles R. Perrin will succeed Mr. Goebeler as president of the Packaged Foods Division. These appointments were effective June 1, 1982. The announcements were made by Ralph E. Ward, chairman and president of Chesebrough-Pond's.

Mr. Goebeler, currently president of the Packaged Foods Division and a corporate vice president, joined the company in 1968 as a brand manager in the Health and Beauty Products Division. He joined the Packaged Foods Division in 1972 and has been president and general manager of the division since 1979. A graduate of Iona College in New Rochelle, N.Y., Mr. Goebeler holds an MBA degree from the Wharton Graduate Division, University of Pennsylvania.

Charles R. Perrin

Mr. Perrin has been elected a corporate vice president, effective June 1, 1982. Currently he is vice president, marketing, for the Packaged Foods Division, having joined as a product manager in 1973. Previously he spent five years at General Foods Corporation in various marketing capacities. A graduate of Trinity College, Hart-

Frank Butrick, has, for over two ford, Conn., Mr. Perrin holds an MBA degree from Columbia Graduate School of Business, Columbia University.

George W. Rieler

Mr. Bieler, president of the International Division and a corporate vice president, joined Chesebrough in 1958 and has served in many capacities in the International Division including general manager Canada and general manager. Australia before returning to headquarters as general manager of the division in 1972. Commenting on Mr. Bieler's retirement, Mr. Ward said, "he has made numerous outstanding contributions to the growth and progress of our International Division in his lone and productive career with the company. We wish George the best of good health and happiness in his retirement "

Chesebrough-Pond's Inc., headquartered in Greenwich, Connecticut, is a diversified worldwide manufacturer and marketer of branded consumer products for the entire family. Among the company's best known brand names are Ragu, Health-tex, Bass, Weeiuns, Pond's, Adolph's, Vaseline, Cutex, Intensive Care, Cachet, Wind Song, Aviance, Chimere, Prince Matchabelli, Qtips, Aziza and Rave. Worldwide sales for 1981 totaled \$1,529,674,000.

National Restaurant **Association Names Operating Chief**

The Executive Committee of the National Restaurant Association meeting in special session in Washington, D.C. has chosen Robert B. Neville to serve as chief staff officer of the association

Neville has served on the NRA staff for fourteen years as legal counsel and advisor to the association leadership. Since January, he has served as acting chief staff officer.

"Bob has been involved in formulating and implementing NRA policy for years," said NRA Chairman Walter Conti. "When the Board asked him to assume staff leadership of the association last winter, he quickly took hold of the organization and maintained it.

The National Restaurant Association has 10,000 members.

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processing The supe ority the cooking strength and the when ready to eat, an the enhancement and microbio when presented in the pack We will be pleased to submit ples of product made on the press, same die, same raw ma but dried in conventional Microdry units. You will readly the color difference cool taste the bite differences measure for yourself the s sluff off each product

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ta drying operation from line comparisons by two rccessors Shows total energy

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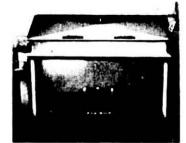
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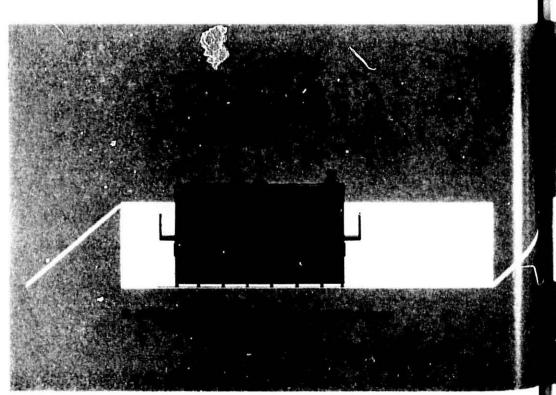


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Foremost McKesson Review

In spite of an excellent performance by C. F. Mueller Company's pasta operations in the fourth quarter and the year, the Foods Group's operating profit for the year declined 2% to \$44,418,000, while revenues increased 4% to \$1,029,888,000. The decline in profitability was due largely to cyclically depressed prices in both the dairy business and food ingredients.

Paste vs. Pasta

At the annual meeting of the American Association of Cereal Chemists in St. Louis: Quality production is needed to assure a dependable market for pasta research in the food field for almost products. C. Mickey Skinner, Skinner 50 years. During that time he helped Macaroni, Inc., Omaha, pointed out. establish standards of production, nu-"We have a very interesting theory in tritional content, and sanitary condiour company and that theory is that tions for a wide variety of products. contributions to the American Cancel if you produce a quality product con- He worked closely with the U.S. Food

sistently you will satisfy the customer & Drug Administration and helper and they will remain loyal to your clients comply with its regulations and braset." Mr. Skinner said.

"We also feel that there is a difference between paste and pasta. Some people in our industry use various blends of raw material and make paste. Others in our industry are more discriminating and use durum semolina or durum patent flour and make pasta. Durum semolina is the raw material of choice for making quality pasta products."

In Memoriam



James J. Winston

James J. Winston of New York City and Amagensett, New York, died of a heart attack May 23. He was 68.

Born of immigrant parents, he worked his way through college to become a chemical analyst and early in his career went to work for Benjamin R. Jacobs who had been a chemist with the Department of Agriculture and set up the laboratory for the Na- vived by his widow, Jeanne, tw so tional Macaroni Manufacturers Association in 1920.

Mr. Winston became a partner of Mr. Jacobs and the Jacobs Laborator- cation of the grandchildren. ies were changed to Jacobs-Winston

Mr. Winston was named Director of Research of the National Macaroni Manufacturers Association upon Jacobs' retirement. He was involved in

requirements for such items is on materials, meat, fish, pasta, at lot

He was the author of a b sic dustry text on pasta product in and quality control and had writen for leading scientific journals. A fe low d the American Institute of Chemists and other scientific and technical societies. he had been awarded a certificate public service by New York state and received a tribute from North Daket State University for his many years of service with the Cereal Chemistry a Technology Industrial Advisory Co mittee. Just a year ago he was tender a testimonial dinner by the Scientis Division of the UJA-Federation New York City.

He is survived by his widow Floreda, sons Harold and Marvin and daughter-in-law Ellen, wife of Marvin He cherished high grand-daughter Emily and Sarah. He also leaves brother Joseph and sister Lee Morger

The family would appreciate co tributions to Temple Shaaray Telia 250 E. 79th Street, New York, M 10021 or contributions to the Drusie Winston Scholarship Fund, c/o Ameri can Friends of Tel Aviv University 342 Madison Avenue, New York, N

Harold C. Saar

Harold C. Saar, 59, who ir t past 14 years has been Region | Sal Manager in Chicago and the 1 dwes for Golden Grain Macaroni Co pany died April 29, 1982.

Saar, a native of Chicago wh make his home in Clarendon Hills. , su Randolph and Scott, and three gran children. A Memorial Fund ir Saar name has been established for t acd

Ross Cameron

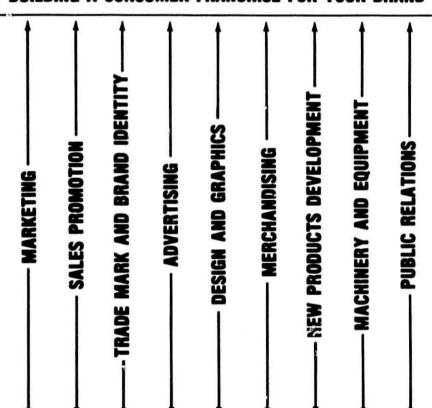
J. F. Ross Cameron, Vice-Pr side of Royal Macaroni Company. San Francisco, California-born Sault S Marie, Ontario, April 24, 1936 -did April 12, 1982. Survived by his wide Janie and daughters Vickie and Christie. The family would appreciat

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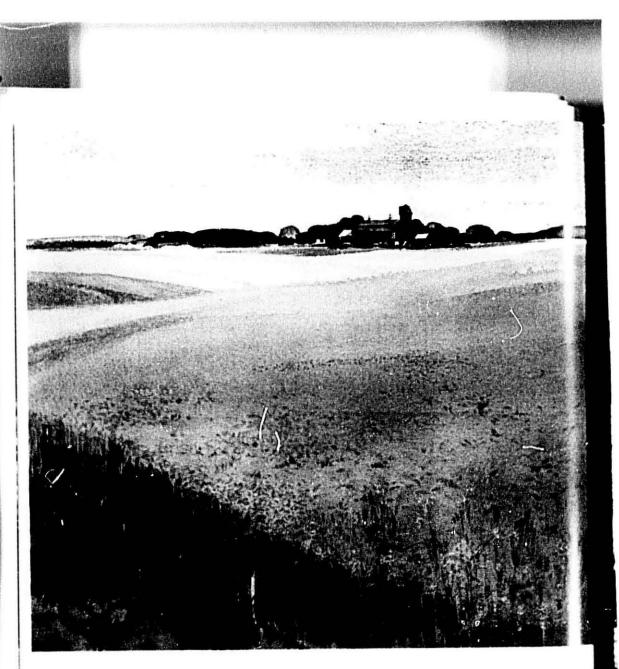
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