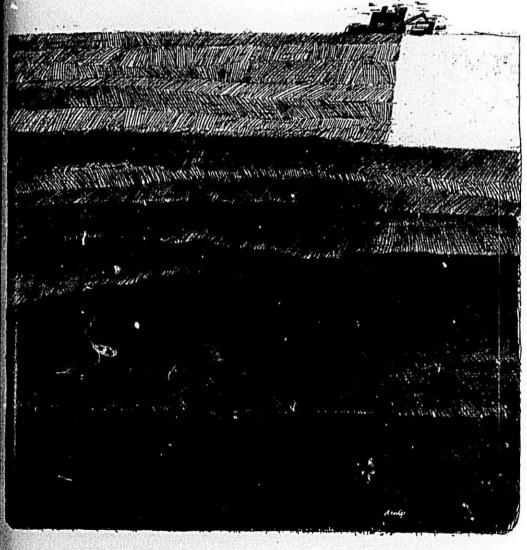
THE MACARONI JOURNAL

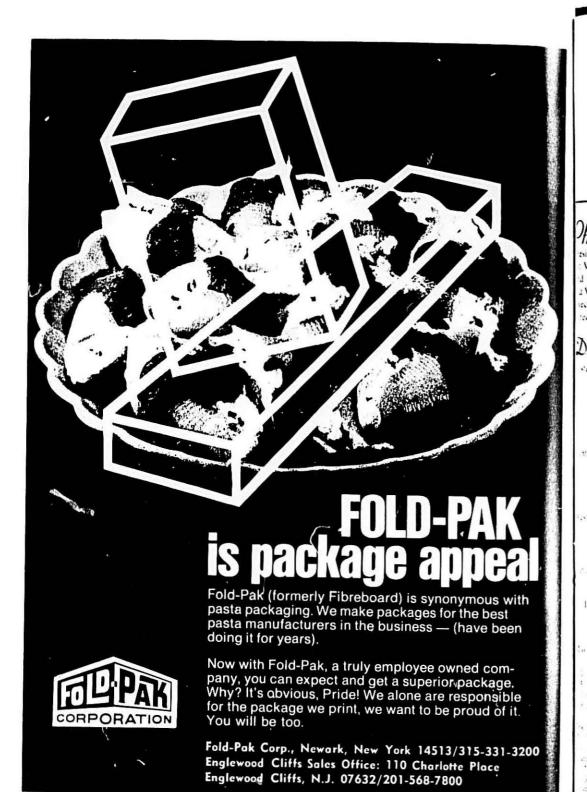
Volume 59 No. 12

April, 1978

Macaroni Tournal



59th Anniversary Issue



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Vol 59 No 12 April 1978

Ottacial publication of the National Macaroni Manufacturers Association 19 Nouth Bothwell Street Palatine Illinois Address all correspondence regarding advertising or editorial materials to Robert M. Green, Editor P.O. Box 336, Palatine Illinois 60067

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MEETING

A fine turnout of convention delegates met at the Diplomet Hotel in Hollywood, Florida to hear comments on creative marketing, action to be taken in Washington, and meeting the challenges of dealing with people.

Greetings from the President and tive Marketing follow.

Second Day

Counselor Harold Halfpenny declared economic issues are being de-cided in Washington rather than in the market place. 1978 is an election year with all Congressmen and onethird of the Senators up for reelection. Their staffs are writing the laws, so you must know these people. Bureaucrats are gaining in power and public interest advocates are in the inner circle. He urged that all businessmen keep abreast of legislation pending in Congress and write letters continuously to representatives to give them a business point of view. He also urged that businessmen get their employees and families involved.

Robert J. Wager of the American Bakers Association gave a summary of the main features of the "wheat and wheat foods research and nutrition education act," Title XVI, Food and Agriculture Act of 1977 and also a probable timetable for implementation. Copies of these documents are available on request. Mr. Wager said that the fattening image of carbohydrate foods can be counteracted by truthful advertising. Americans are getting only 28 percent of their calories from carbohydrates, and the Senate Select Commission on Nutrition says it should be 58 percent. Cotton, potatoes, and eggs all have industry-commodity programs now and are showing sales increases from research and promotion. We urge the macaroni industry to get a represen-tative on the council and see that the industry gets a fair share for its con-

Mel Maier, Administrator of the North Dakota Wheat Commission, reported French and Italian durum crops down with the potential for U.S. durum excellent. Harold Hofstrand of the U.S. Durum Growers Association said planting intentions

now almost as large as durum.

Vance Goodfellow of the Crop Quality Council reported that the re-search facilities for spring wheat and durum has been struck from the 1978-79 federal budget. The frem is only comments of the panelists on Crea- \$179,000, but it is vital to the area, and he urged immediate contact with Congressional delegates.

Elinor Ehrman of Burson-Marsteller gave the product promotion report for the National Macaroni Institute. A box score of placements for the calendar year 1977 appears next month. She had tables of clippings from all parts of the country representing placements in magazines and newspapers.

She showed slides of the highly successful Spaghetti Safari II and reported that among the several projects approved by the Committee for 1978 is a new booklet to be captioned Pasta Pizzazz-a basic reference

Chris Smith of Burson-Marsteller who has conducted a research study of the Foodservice Market and pasta opportunities therein was hung up by bad weather in New York and arrived in time to make his presentation to the board meeting.

Third Day

Robert L. Siler of Sales Force Companies was also in New York to conduct seminars for the American Management Association and could not get out to appear on our program. Bill Henry, Ernest Ravarino, and Joe Viviano did an admirable job with an impromptu panel on human re-sources. Bill Henry gave a quick sketch of discussions at the Food Brokers Convention, Ernest Ravarino commented on recruiting policies, incentive plans, and merchandising fringe benefits, while Joe Viviano posed questions on women in management, performance appraisal, salary evaluation, and moving policies. Round table discussions pursued these matters further and proved to be stimulating and profitable.

Winners of the tennis mixer were Mollie Williams and Joe Viviano. The Ted Sills silver bowl golf trophies as of January 1 were up one-third were won by Sevi Krigel and Mark after last year cline. He pointed Heffelfinger for low net. Low gross were won by Sevi Krigel and Mark

was won by Ioe Viviano and Freschi and Mary Ann Hollin worth and Florence Muskat,

Suppliers Socials

Suppliers Socials brought the d gates together each evening before the dinner hour, and thanks was tended to the following hosts:

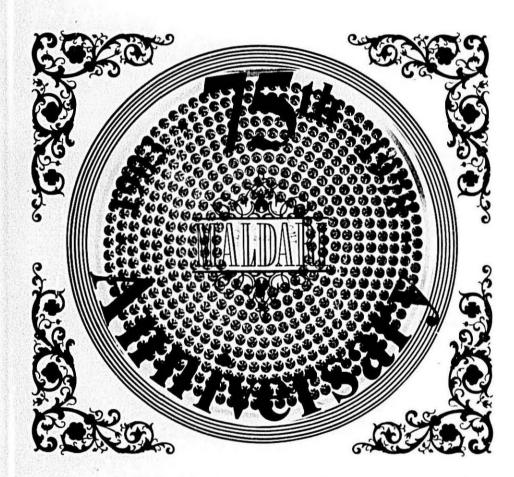
A D M Milling Company Shawnee Mission, Kansas Amber Milling Division St. Paul, Minnesota Ballas Egg Products Corporation Zanesville, Ohio Buhler-Miag Corporation Minneapolis, Minnesota Braibanti Corporation New York and Milan, Italy Clermont Food Machines Co. Brooklyn, New York DeFrancisci Machine Corporation Brooklyn, New York Diamond National Corporation New York, New York Fold-Pak Corporation Englewood Cliffs, New Jersey Food Engineering Corporation Minneapolis, Minnesota Guntert & Pellaton Stockton, California

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Rossotti Consultants Associates. Inc Fort Lee, New Jersey Schneider Brothers Chicago, Illinois Seaboard Allied Milling Corporate Kansas City, Missouri Triangle Package Machinery Co. Chicago, Illinois

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THE MACARONI JOURN



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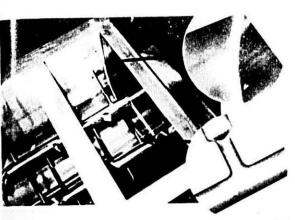
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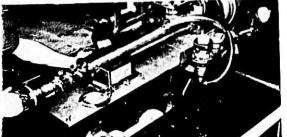
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APRIL, 1978

GREETINGS FROM THE PRESIDENT

Opening Remarks by Lawrence D. Williams

extend to each of you a welcome to the Winter Meeting of the National Macaroni Manufacturers Association. No doubt we are all pleased to be in sunny Florida at this time. Frannie and I are extremely happy to be here with you this year-we are very sorry uncontrollable events last year caused us to miss the Winter Meeting.

This morning I'll open this meeting with a report to you on a number of important Association developments and accomplishments during the past vear. These are:

- 1. The monthly Macaroni Sales Index compiled by Ernst & Ernst, initiated a little over a year ago, continues to be a success.
- 2. The conferences to resolve the operation of the HRI Program resulted in a foodservice research project which was authorized by the National Macaroni Institute Committee this Fall and later this will be reported upon in detail.
- 3. In the past year your Association held two plant operation forums and these were at San Leandro and Philadelphia.
- 4. A highlight of the year included Spaghetti Safari II. Twenty food editors wers present in durum country at harvest time and they were exposed to milling and macaroni manufacturing opera-
- 5. There was the 11th Annual Reunion at Tiro A Segno in Greenwich Village, New York City with outstanding attendance.
- 6. There was an FDA Hearing before FDA and USDA representa-December at which I and some was precipitated by federal reg-ulations concerning net weight and moisture loss in food products. Our presentation was one of many others including the Grocery Manufacturers of Amer-
- 7. We had an excellent summer meeting of the Association at Hershey, Pennsylvania. A large number of past presidents of further by terminating operations in the sales force.



your Association attended this meeting even though many of them are no longer active within our industry. It is my hope their attendance will become a tradition at future summer meetings. Also, at this time I would like to express for the Association our thanks to Joseph Viviano and Dick Zimmerman and all others who participated in the excellent summer program.

8. Last-but certainly not the least important Association development during the past year-we have experienced the unfortunate demise of several of our members. Each of whom we shall miss as a personal friend and a business associate

Far-Reaching Change

Contemporaneous with important Association developments and accomplishments during the past year the macaroni industry produced changes tives in Atlanta, Georgia, during of a far reaching nature. The significant development has been mergers members of the Standards Com- or consolidation of the activities of a mittee testified. This Hearing number of companies both large and small. Subsequent to the fall 1976 sales of Mueller to Foremost-Me-Kesson and Gioia to Ranks-Hovis-McDougall other significant transactions have occurred. Ranks-Hovis-McDougall acquired Bravo of Rochester and Ravarino and Freschi of St. Louis. Also, R & F, which had previously acquired EL Paso, New ment of liaison between management Mill and Red Cross, consolidated and its sales force and motivation of

El Paso. Pillsbury finalized acquisition ant fluctuation of the U.S. dollar in of American Beauty and its six plants west of the Mississippi—Prince Macaroni acquired Shreveport Macaroni and Jenny Lee of St. Paul, Wiess Noodle and Ideal Macaroni within the past few weeks have completed their merger.

matter on Sunday. Article IV presently states that each member shall ently states that each member shall be entitled to one vote only and if membership is in the name of a firm, corporation or other legal entity it shall be entitled to one vote only, late foreign buyers looking to the shall be entitled to one vote only, lated States' supply thus possibly interpretation of irrespective of number of branches, plants or subsidiaries it may have. Article V concerns the Board of Directors and Section 1, paragraph (d) states that membership of the Board of Directors shall be limited to one board member for any one macaroni company and for purposes of the section, one macaroni company means only one corporate entity or one individually owned company. Any developments and proposals applicable to your Constitution and By-Laws will be reported to you at the earliest date possible. Any proposed changes shall be submitted to you for approval or disapproval as you determine.

Rising Costs

This year 1978 finds our indust continuing to be plagued by rising costs of labor, freight, packaging, mar-keting, taxes, etc. We therefore cannot falter in continuing our efforts for efficient and profitable operations Your agenda at this meeting is designed to bring recommended activities to you during the course of the program this morning and Wednesday morning. The issues of marketing. facts and trends, packaging, advertising and merchandising will be addressed head-on today by highly qualified experts. Wednesday morning a highly qualified panel will lead a discussion on standards and evaluating the broker sales force, develop-

new year of 1978 continues to ther financial uncertainties bedirect cost increases. There is uray in the financial community stically and abroad. The con-Weather will also continue to affect All this activity relative to consolidations and mergers has necessitated the review of Articles IV and V of the Association's Constitution and By.

Laws. Your Executive Committee commenced deliberations as to this matter on Sunday. Article IV presently states that each member shall be and the existing surplus of durum wheat constitutions are the search member shall be and the existing surplus of durum wheat constitutions are the search member shall be and the existing surplus of durum wheat constitutions are the search wheat constitutions and provide profit picture of personal provide profit picture of personal provide profit picture.

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Laws. Your Executive Committee commenced deliberations as to this matter on Sunday. Article IV pressure and the existing surplus of durum wheat contents are the search will also continue to an expectations and provide profit picture.

The provide provide profit picture will also continue to an expectation and provide profit picture.

The provide pr

> reating further price increases. Be Prudent-Work Hard

I can only suggest that for this year 1978 we each exercise the most d and prudent business practices pssible to avoid being swallowed up y rising costs, inefficiency and intion. The profit motive without sitive action will not be sufficient in he year ahead to achieve profit sucess. Desire must be coupled with a ng up of our sleeves and the exenditure of hard, hard, hard work. During the year your Association vill sponsor seminars and meetings red and designed to assist all members in achieving a successful and profitable 1978. Plant operations eminars are scheduled for April 4 and 5 at Kent, Washington and on April 12 and 13 at Millersburg, Ohio. summer meeting at Del Coroade, California will also be contructive and you can look forward to tle same.

Thank you for your attentionmjoy your meeting.

Winter Meeting Suppliers' Socials

(Continued from page 4)

Vitamins. Inc. Chicago, Illinois Wright Package Machinery Durham, North Carolina ilton G. Waldbaum Company Wakefield, Nebraska

OPENING REMARKS ON CREATIVE MARKETING PANEL by Lester R. Thurston, Jr., at the Winter Meeting



Lester R. Thurston, Jr.

The past five years have been a period of unprecedented change in the Macaroni Industry. Beginning with volatile activity in commodity markets, we have seen the course of events reshaping our industry struc-ture. To use the old cliche, the past is prologue. Whatever forces with which we contended in the past, they are gone to be replaced by the challenges of the future.

The measure of our success as an industry and the degree of success each of us achieves as managers will be determined by our response to that challenge.

It is not a unique situation in which we find ourselves. Others before us have reached the same crossroads. One fork leads to growth and progress; the other to decline and decay.

What are the factors that will influence the outcome for our industry and for you allied and associated members in your own area of the business community? You too are engaged in the quest for growth and development. There are obviously many answers to the question. We want to focus today on one critical element.

In 1960, Theodore Levitt, then a Harvard Business School and now a famed professor there, wrote an article for publication in the Harvard Business Review. The article has since become a classic in business literature. 265,000 Reprints have been sold since

the original publication and it was again featured in a 1975 edition of the magazine.

The title of the article "Marketing Myopia" reveals the message. Myopia, for those of us who need a brushing up on definition, means "deficiency of

How can an industry and a company ensure its continued growth. Marketing myopia answers that question by urging organizations to de-fine their industries broadly to take advantage of growth opportunities. Using the railroads as an example, Mr. Levitt showed how they declined inevitably as technology advanced because they defined themselves too narrowly. "To continue growing, companies must ascertain and act on their customers needs and desires, not bank on the presumptive longevity of their products."

Product Oriented Industry

Historically, the macaroni business has been considered a product oriented industry. So much so that macaroni is referred to in some circles as a commodity.

In recent years there has been a perspective trend away from that concept, but in my opinion we have a great opportunity to progress infinitey further and in our best interest we better do it faster.

If we do not seize that initiative promptly, the failure will be clearly perceived for it will rest at the top among those executives responsible for broad corporate aims and policy.

The railroads got in trouble, according to Mr. Levitt, because they assumed themselves to be in the railroad business rather than in the transportation business. The reason they defined their industry wrong was because they were railroad oriented instead of transportation oriented. They were product oriented instead of customer oriented.

We refer to ourselves as being in the macaroni business. In fact, we lecturer in Business Administration at are in the business of satisfying consumers and in the food category alone we have 18,000 items competing with us for attention and approval.

Having the capacity to produce great quantities of pasta products, we feel the pressure to move the product.

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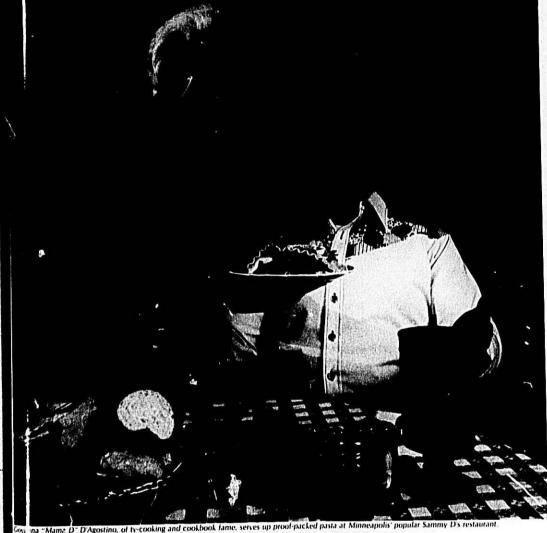
It is one of the few publications strictly concerned with the manufacture and distribution of pasta products. Most other publications that deal with macaroni, regardless of what language: they are printed in, are primarily interested in cereal, wheat, or milling and related products. The Macaroni Journal aims at the specific target of the making and selling of macaroni products.

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Again quoting Mr. Levitt, what usually gets emphasized in that sit-uation is selling, not marketing. Marketing, being a more sophisticated and complex process, gets ignored.
"The difference between marketing and selling is more than semantics. Selling focuses on the needs of the seller, marketing on the needs of the buyer. Selling is preoccupied with the sellers' needs to convert his product into cash. Marketing responds to constantly changing consumer needs and tastes.

Tools of Marketing

Today we hope to stimulate your thinking and focus your attention on essential tools of marketing. We have assembled a distinguished group of professionals and I say that with conviction because I have had the opportunity to work closely with each of our speakers and their organization. Each of us enjoys a client-agency relationship at the present time.

Mr. Philip F. Connolly is a Vice President of the A. C. Nielsen Company Retail Index Division.

Phil first joined the company in 1949. He served as a presentation analyst and subsequently rose to become first assistant manager and then manager of the New York Retail Index Client Presentation Analysis Department. He remained in that capacity until July of 1966 when he moved into Client Service and was promoted to Account Executive in September 1968. Phil was elected a Vice President in 1974 and since that time has had corporate responsibility for a number of important clients, including Mueller, Warner-Lambert and the Best Foods Division of Corn Products International.

Married, Mr. Connolly resides in Cengers, New York. Phil and his wife, Joan, have reared a family of six boy: who currently range in age from 24

Mr. Irv Koons is President of Irv Koons Associates, Inc., a medium sized industrial design firm specializing in Packaging, product design and corporate image through packaging. He is past Chairman of the Package Designers Council and member of the Board of Directors and the Executive

Irv has lectured for the U.S. State Department, the World Trade Organization and has been consultant on

packaging to the United States Information Agency. He is the author of numerous articles appearing in In-dustrial Design Magazine, Packaging Digest, Modern Packaging, Graphic Packaging and many other publica-

The firm's work has been exhibited and has won awards in almost every major U.S. packaging and design exhibition, competition and publica-tions, in addition to receiving many honors and awards internationally.

Clients include such firms as Consolidated Cigar Corporation, Joseph E. Seagram & Sons, Clairol, Revlon, Bristol-Myers, L'Oreal, Chesebrough-Pond's, Yardley, Warner-Lambert, Gillette, The Chun King Corporation, C. F. Mueller Company, Thomas J. Lipton, Beecham, Inc., General Foods, Fairmont Foods Company, American Can Company, C.P.C. Inc. and many

Mr. Robert S. Marker is Chairman of the Executive Committee of Needham, Harper & Steers, which he joined in November, 1975, having previously been President of the Dallas Herald Company. Prior to that assignment he was Chairman of the Board of McCann-Erickson Worldwide, Inc.

Mr. Marker was with McCann-Erickson for 13 years. He joined the Detroit offices as Vice President and Account Supervisor after a dozen years of varied consumer account experience, both creative and management. He was elected Senior Vice President several months later, appointed Detroit Manager and Senior Management Officer on the General Motors business, then elected Executive Vice President later in 1967. He was elected President in 1968, moving from Detroit to New York, and in 1971 was elected Chairman of the Board.

Mr. Marker has served as President of the New York Board of Trade and on the Board of Directors of the National Outdoor Advertising Bureau.

Bob was born in Nashville, Tennessee, is married and the father of

Mr. Eugene S. Mahany is no stranger to our Association. He appeared on our program in January, 1975, and we are very pleased to have nim address us once again.

Gene is Senior Vice President and Director of Marketing Services of Needham, Harper & Steers.

He is a Summa Cum Laude uate of Xavier University in Ci nati and has a Master's Degre Marketing from Michigan State
versity. He attended the Marketing Course sponsored by the American Adve ing Federation at the Harvard Last. ness School in 1967.

MARKETING INFORMATION The Basis for **Creative Strategy**

by Phil Connolly, Vice President. A. C. Nielsen Company, at the Winter Meeting



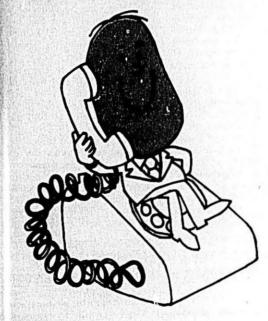
Philip F. Connolly

was asked to talk on the subject marketing information—a basis creative strategy. It might be be titled "Knowing your marketproblems and opportunities." It often been said that problems nothing but opportunities in disg. Hopefully I will be able to point some of these opportunities to ;

Before examining the dry parameter, it may be helpful to inve gate some of the activity relating the general economy and to the mandistribution outlets for your pr ucts-food stores.

Since the grocery industry is s ported by consumers, let's start locking at what kind of money carsumers have to spend. Disposable personal income through the third quarter of 1977 was up by 10%, a very healthy increase. As we all know, however, inflation has been eating

(Continued on page 14)



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(Continued from page 12)

away the value of our dollar income and with average prices up by 6%, real disposable income was up by only 4%. That is a much less dramatic increase but still better than the net population growth of 0.75% over the same interval.

After factoring out taxes and inflation. American consumers are on a modest uptrend in terms of their ability to improve their standard of living and in terms of their ability to buy our products in grocery stores. Of vital interest to the health of our business is the percentage of this "buying income" spent in food stores—our major point of distribu-

When the final figures for 1977 are in, it is estimated that 11.5% of total buying income will have been spent in grocery stores-\$11.50 out of every \$100. Despite all of the publicity given grocery stores' competitors from fast foods, this grocery store share of disposable income has changed very little in the last six years-it has ranged from a low of 11.5 in 1977 to a high of 12.1 in 1975.

While the percentage of buying in-come allocated to the grocery industry has not changed dramatically over the last six years, in 1976 total grocery store sales were \$138.2 billion, making grocery retailing the biggest single industry in the country followed by the automotive industry which did \$126 billion in 1976. In will total \$147 billion, a 7% increase

Logically, the next subject to dis-

Labor Statistics publishes a figure called "Food at Home Price Index" which we'll use because it most closely reflects the inflation factor in grocery store prices. To review history briefly, food at home prices shot up 15% in 1973, another 16% in 1974 and 9% in 1975. In 1976, food at home prices advanced a very moderate 3%. In fact, in the second half of 1976, food prices didn't increase at all (+0.2%) and this trend continued into the beginning of 1977. More recently, however, food at home prices are moving back up, +6.6% for the six months ending September 1977. It is easy to see then that the primary factor in the growth of food store sales has been higher prices. This chart compares the dollar growth shown on the previous chart with the increase in prices to arrive at an inputed tonnage growth rate. The average annual tonnage growth rate from 1972 to 1977 was less than 1%, +83%.

What can we generalize from all

First, thanks to a good year in 1976, the retail grocery industry has now recovered to a tonnage level about 2% above its 1972 pre-recession level. However, population has grown 4% over that same interval, so per capita is lagging.

From 1960 to 1970, our total population increased by more than 1% a year-in fact it increased at a compound rate of 1.2%. However, in the first five years of the current decade, from 1970 to 1975, our population 1977, it is estimated that grocery sales growth has been less than 1%, more precisely it has been only about 0.8% per year. Furthermore, Census experts expect this slow rate to continue through 1980. This means that the was only in 1976 that they started t

can't expect to grow very much merely by having more mouths to feed in total

The Dry Pasta Market

With that background, let us turn to an area of interest to all of us-the Dry Pasta market.

In 1977, estimated sales of Dry Pasta products in the Continental United States food stores reached an all time high of over \$500 million. Indexing the volume to 1970 as a base of 100, we see that the Dry Pasta dollar business has doubled (index of 201) in seven years. Like total grocery store sales, however, the tonnage trend is no where near as dramatic as the dollar trend. Our index for 1977 on a tonnage basis is 117 compared to the index of 201 for dollars.

The average annual growth rate for Dry Pasta on an annual basis (+2.4%), however, did show a better rate of growth than population over the same period-a change in direction from that noted by Bob Wenger of Nielsen when he addressed you i 1971 and pointed out that between the years 1967 and 1970, there ha been no expansion of annual per capita sales for Dry Pasta.

What happened to change a capita trend that had been flat i over six years to one of modera growth? You will note that the chang took place starting in 1973 and h continued through 1977. In 1973, tw things happened that helped the Dr Pasta and certain other dry groce products. First, the consumer pri index for food at home shot through the roof and continued to grow at double-digit rate through 1975 and i cuss is food prices. The Bureau of food industry in the United States slow down. In conjunction with that

e lad the famous meat boycott that ter The price index for meat also creased rather sharply from 1972 brough 1975, and since then has retly much stabilized.

So far so good-but how did our dustry's performance compare with hat of some competitive industries, e manufacturers of other possible neat substitute products.

Here is a comparison of the tonage trend from 1972 to 1973 for Pasta and seven closely related prodet categories. You will note that the nowth rate for Pasta ranked seventh then compared to these categories. in all fairness, though, we should ake into consideration previous performance when comparing trends.

When we compare the 1973 growth rate with the 1972 rate for Pasta and the other seven categories, we see that Pasta ranked third in acceleration of trend.

As noted earlier, the impetus given h Pasta and semi-related category ales by the increase in total food at home and specifically meat prices during 1973 and 1974 and part of 1975 produced some pretty healthy average annual sales gains for some of these categories, including Pasta.

The average annual growth rate for Pasta from 1967 to 1972 was slightly etter than 1%, while the annual growth rate from 1972 to 1977 expanded to 5%. The next question is— lias this expanded rate of growth

Population Changes

mentioned earlier that prices, parcicularly meat prices, started to stabilize during 1976 and have pretty much held the line until 1977. Note that the growth rate for Pasta during 19.7 was expected to be only 1% compared to the average rate of 5% from 1972 to 1977. Obviously, the stabilization of prices has had a negative effect on the growth rate of Pasta just as the rise in prices had a positive effect on the growth of Pasta. Of the seven other categories we have been examining, three experienced a slow down in 1977, one showed better growth in 1977 and three showed basically no change.

one percent a year through 1980, we most exactly parallels the period of

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obviously cannot expect to see Pasta our highest birth rate. or other markets grow substantially from the availability of more customers. If there is to be any pick up in growth rate, it must come through other methods.

While we cannot expect an growth from population in total, there are some interesting figures in the age makeup of the United States population and its trend. Looking ahead to 1980, there will be increases in three important age components. The fastest growing will be the 20-34 year old age bracket, which is expected to expand by 14% from 1975 to 1980, compared to a 4% growth in total population.

This is a very important age bracket because it includes those just entering the labor market. To quote Peter Drucker, "Twenty years is the lead time between conception and the paycheck."

It also includes those in the family formation stage, and you know what that means-new homes, young children, new appliances, etc. It will probably also mean more new technology appliances, such as microwave

Directly related will be another growing population segment—the under-5 age bracket, which should increase 9% by 1980-and this also means specialized opportunities for some segments of the food industry.

The other age bracket which is expected to outpace the total is the senior citizen group—those 65 years and older. This group is also expected to increase 9% by 1980, again representing specialized market opportuni-

Behind the Figures

We would like to expand on these population statistics, because although we have cited three obvious changes, the numbers tend to conceal more than they reveal, unless you probe beneath the surface.

First, what's behind the burgeoning population in the 20-34 age bracket? The main force behind it is the baby boom that followed World War II and lasted until about 1962. If we look at the birth dates of those who Since we have already shown that will be 20-34 years old in 1980, the the United States population is ex- oldest will have been born in 1946, pected to grow at only eight-tenths of and the youngest in 1960. That al-

Now, let's think about the individual personalities that will comprise that 20-34 age group just two years from now.

Because they will have been born between 1946 and 1960, they will be our first generation of adults raised in front of the TV screen. They will all have been born after the last "heroic war," if I may use that term. Many will have been raised on modern math, and they will all have been raised in the post-World War II pension plan, medical plan, unemployment compensation society. They will be better educated. If we go way back to before World War II, in 1940, less than 5% of the adult population were college graduates; and a total of 10% had some college.

By 1975, almost 14% of our adult population were college graduates; and a total of 26% had some college. And remember that these are percentages of total adult population. If these figures were percented to the age group we're talking about—20 to 34—I'm sure they would be quite a bit higher. Let's remember also that they will have been raised in the era of the birth control pill and the general popularity of the "zero population growth" concept.

In 1960, there were 118 births per 1,000 women of child-bearing age. In 1976, that rate dropped to 65.6, the lowest rate yet, and even below the 76 per 1,000 rate in 1933, at the bottom of the Depression.

So, the slowdown in birth rate is very, very real; and it can be expected to show up in smaller average family sizes for this 20-34 year old

Related to the matter of family sizes, household sizes, etc., is another interesting statistic, with significant implications for the grocery industry. In 1950, only about 11 of all households in the United States were oneperson households. By 1975, that figure was up to almost 20%.

Let me add a few more key population statistics.

First, is the trend in the percentage of working wives. In 1950, we had a working wife ratio of 24%. That percentage has increased steadily, and as of 1976 was up to 46%. What's more, there are now more working

(Continued on page 18)

INFLUENCING FACTORS ON THE CONSUMPTION OF DRY PASTA

PRICE INDEX PER CAPITA CONSUMPTION OF MEAT SALES TREND 1972 1974 1975 1976 +2

TREND DIFFERENTIAL 1973 VS 1972

	1972 vs. 1971	1973 vs 1972	DEFERENCE IN TRE
PACKAGED SPAGHETTI DINNERS	-2	+23	unnes
SPAGHETTI SAUCES	. +11	+23	anna •
DRY PASTA	1	•6	(Magazina • 5)
ANNED SPAGHETTI	•7	•11	1 -4 E
ANNED RAYIOLI	+30	+32	E+2
AYCARONI & CHEESE DHINERS	+23	+24	J+1
NICE MIXES	+18	•5	-13 Easter
HOODLE DINNERS	+50	+35	-15

THE MACARONI JOURNAL

ATR: The hotter, faster, cleaner dryer.

Drastically reduces the time required in the production cycle.

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Braibanti ATR—newest in the long line of Braibanti pacesetting Pasta Dryers.

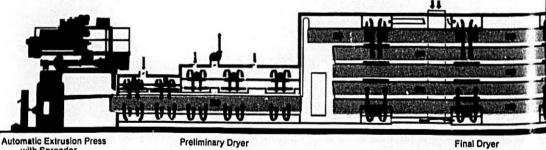
Braibanti, the world's foremost manufacturer of Pasta Equipment.







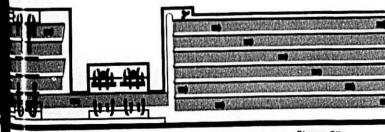




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Product Cooling Section

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wives than there are full-time housewives; and that's quite a switch from our historical concept of the average Mrs. Grocery Consumer.

I might add that this working wife figure is a rather strictly defined statistic—these figures represent only the wives of husbands wato are also "present and working"—in other words, they represent a second income in the family.

If all of these population statistics haven't been enough to convince you that nothing is constant but changes, let me add one more. In 1976, there were 2.1 million marriages in this country. There were also 1.1 million divorces. Thus, for every two marriages, there was slightly more than one divorce.

I hope we have given you enough to convince you not to be fooled by our almost flat population trend. The total may not be changing that much, but its composition certainly is; and these changes represent both problems and opportunities.

They have led directly to the popularity of the market segmentation concept. No single overall marketing strategy can appeal to the needs of the single-person household for single servings, to the needs of the working wife for convenience foods, and to the needs of the traditional family unit for economy sizes.

I think the education figures also help explain consumerism and the pressure for such things as nutritional labeling and unit pricing. Increased purchasing power—remember a lot of families now have two incomes—plus more education, and a lifetime sitting in front of the TV tube have all combined to produce a greater demand for quality, and greater skepticism regarding product claims.

Population Shifts

Up to this point, we haven't talked about population shifts by piece of geography. I am not going to review the general shift of population to the South and West because so much has been written about it that I think you're all quite familiar with it. But I would like to talk about a different geographic shift in population, because it represents a reversal in trend that I find many people are not aware

For years, there has been so much publicity given to the movement away from the farm and into the city that I think many of us have tended to write off rural areas and smaller cities as promising markets. That may have been a safe thing to do in the past, but it may not be wise policy in the future. Right now, someone should write a new song—"How are you going to keep them down on Broadway after they've seen the farm?"

First, let me define the four groups—major metropolitan areas with over 2 million population, metropolitan areas between one-half million and 2 million people, then so-called minor metro areas which are small cities between 50,000 and on-half million, and finally non-metropolitan areas, which would be primarily rural.

Looking at these numbers, from 1950 to 1970, the major metropolitan areas increased population by 107%, or more than doubled in size. The next urban group increased by 106%, then drop on down to the rural areas and three was a 6% decline in population over those twenty years.

However, demographers now say that from 1970 to 1990, the largest cities will grow by only 6%, and medium and smaller cities by 27% and 21%, respectively; the important point is that they expect to see a 17% population gain in the rural areas.

We are already beginning to see this shift reflected in our figures. From 1972 to 1976, total grocery store sales in rural areas increased 60% compared with a 46% increase in urban areas. Furthermore, this pattern has been consistent. For each of the past four years, rural growth has outpaced urban growth, although I should point out that in the calendar year 1976, the rural increase was only fractionally ahead of urban.

Certainly any manufacturers developing a marketing strategy for growth should be aware of these shifts in population—both age and urban versus rural.

New Items

Another area that some manufacturers have used successfully for growth has been the introduction of new items. Surely, this avenue will be used again in the future, perhaps by some in this audience. What does history tell us about the introduction of new items.

All of the upcoming material is derived from a Nielsen Service called the Nielsen Early Intelligence System. The data is based on warel-ouse movement to supermarket operators across the country—and reflect new listings in chain and distributor warehouses.

A "new item introduction" can be almost anything—new sizes, new flavors, line extension—that gets onto a warehouse listing.

This chart summarizes the trend in the new item introductions over the last seven years using the year 1971 as an index of 100. Except for the year 1972 and a recent decline in the pas 18 months, I think you will agree that the number of new item introduction has been relatively flat with minimum change, particularly in the years 1975 through 1975.

It would appear that new item introductions have been the norm in perishable and frozen food categories but that for whatever reason (higher costs of goods, the saturation of colors and sizes as a line extension device), new item listings are declining rapidly in non-consumable categories.

As mentioned above, these figures include all new item introductions whether it be a new brand or just a proliferation of sizes, flavors, colors types of existing products.

Within the gross totals, the new brand figures by themselves offer some interesting indicators.

First, just to set your sights a bit, there is an indication of what proportion of all new item introductions are of the new brand variety. The figures, by the way, only cover the last iew years—data prior to 1974 is not available.

The percentage of total represented by new brands has been increasing slowly, or at least was, until 1977 when the percentage fell back to a level slightly above that in 1975. In a time period when all new item introductions were either flat or in a modest decline, brand introductions appeared to increase slightly.

Within these totals, we thought you'd be interested in the type of introductions.

First some definitions:

A new brand name—This is the first time a brand name is used by

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THE MACARONI JOURNAL

The METAMORPHOSIS*

In the old days, the first generation Italo-Americans arrived here and many of them chose the production of Pasta for their livelihood. Though the business was laborious, the procedures were simple—select the best semolina for their basic ingredient—turn out the best looking and tasting product possible, and sell it to as many markets as would place the items on display.

In the course of time, complexities arose. The retail outlets became a jungle of products. Each one created to shout—buy me! Then the macaroni manufacturer became immersed in selling related items—and now completely prepared pasta products are in voque.

However, a metamorphosis appears on the horizon: Fully appreciating the profit possibilities of the macaroni industry (which has only scratched the surface in America as compared to other countries) the giants of industry here are buying plants; and foreign money from several sources have sent professional buyers to secure the best possible purchases . . . it's happening all around you NOW!

Now! at the height of your business efforts, you must either fight 'em—or, join 'em.

We believe that just about everyone in the Macaroni Industry knows the reputation of Rossotti, which we have achieved over years. Some of those still in the Industry will remember my father and my brother. Therefore, our promise of complete confidence in any situations is a pledge. Regardless of the direction you choose for your business, I believe we can be helpful. All inquiries, of course, will be held in the strictest of confidence. We would be happy to discuss such situations with you.

* METAMORPHOSIS—transform; change of form structure or substance.—Webster.

Charles C. Rossotti, President

George Leroy, Marketing Director

Jack E. Rossotti, Vice President

ROSSOTTI CONSULTANTS ASSOCIATES, INC.

2083 Center Avenue Fort Lee, New Jersey 07024 Telephone (201) 944-7972

Established in 1898

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manufacturer-Taster's Choice Instant Coffee, Bounce Fabric Softener, No Bake Cheesecake Mix, all would be examples of a new

Established brand name in a new market-This would be a diversification attempt by a manufacturer to a new market with a brand name carry-over-examples here would be Vaseline Intensive Care Lotion, Ajax Detergent or Window

Brand extension, same market-An extension into a new segment-examples, Taster's Choice Decaffeinated, Cycle Dry Dog Food.

Although we are again dealing with relatively short-term trends, some patterns do seem apparent.

The brand name extension in the same field concept appears to be increasing as a percent of all new introductions, and the new brand name segment is not only large, but has maintained or modestly improved its share of the total. One fact that emerges clearly is that the movement of an established brand name into a new market is not only smaller than the other classifications but is declining as well. All of this would seem to indicate that the introduction of a new brand name is still the leading strategy in grocery marketing, that brand extension within a market (that is, to a new segment) is increasing and that the transferring of an existing brand name to a new area may have been a short-lived phe-

We would like to turn our attention to consumer promotions for the next few minutes. Back about the beginning of 1972, certain FTC restrictions were put on the use of price packs, and by price packs I mean such things as cents-off deals, bonus packs, etc. The effect was a marked reduction in the use of price pack promotions by manufacturers.

Consumer Promotions

Here you can see what happened. Setting price pack usage in June-July 1971 at 100, the use of these deals dropped by almost 60%-to an index on into 1975, price pack promotions aspect.

started to come back, probably con-current with a cutback in the use of in-ad coupons. By the middle of 1975, they stood at an index of 83; and by the middle of 1976, at an index of 84 In other words, price packs are not quite back up to their old levels, but close to it.

Another major promotional device is couponing, and we can report that the growth of couponing continues without any signs of slowdown. These estimates provided by the Nielsen Clearing House show that total manufacturer coupon distributions-that is. excluding in-ads-have increased from 23 billion in 1972 to 46 billion in 1976-almost doubling within the past five years.

If we divide that 46 billion coupon distribution figure by the approxi-mate 72 million households in the country, then the total number of coupons distributed per household amounted to about 645 in 1976. Of course, these are coupon distributions and they include all forms of manufacturer coupons, including newspaper coupons.

Redemptions in 1976 were estimated to be 2.1 billion coupons, or about 29 per household for the year still a very sizable figure. To get a picture of what this activity means at the store level, this 2.1 million re- what we don't know is whether demption figure converts to an average redemption rate of about 15 cou- most important, how close behin pons per \$1,000 or annual grocery store sales; or, for an easier perspective, at this rate a \$50,000 a week supermarket would redeem about 1,500 coupons per week.

I think most everyone recognizes the selling power of coupons, but against that power must be weighed to the slippage inherent in all forms of advertising and promotion. Desremains a very important promotion

coupons, as a form of sales promotion, offer manufacturers control and and chicken, but on the truly unusua flexibility, and they add a followthrough punch to advertising.

Since Bob Marker is going to address the subject of advertising a of 41 the following summer. Usage little later, I would like to move to remained at fairly low levels; but, one final area involved in marketing, starting in late 1974 and continuing and that is the price versus quality

Price vs. Quality

To this point, here are a few of servations from a recent survey conducted among 1,000 female lita of household.

Among other subjects covered asked them, "What is the most in portant reason for choosing the par ticular supermarket in which

Here are the results:

43% said price 30% said merchandise selection quality, etc. 27% said location

15% said personnel and service

Before someone challenges me, le me quickly acknowledge that thes figures add up to more than 100%, because some respondents gave mo than one "most important" reason.

When we interpret findings such a these, we tend to immediately just to the biggest number and say "price is the most important factor." But let's do it in a slightly different way. Over half did not say that price was most important-they chose a sto for another reason.

Also, almost one in three said mer chandise was most important. In other words, merchandise quality and selection are, in fact, very important. Also, among those who mentioned price a would merchandise quality and selec

My question is this-even though price is obviously important, and a ways will be in appealing to con sumers, is the grocery industry con centrating too much on price, not enough on merchandise selec and quality? Can retailers and manu facturers work together to do a be te job of building excitement into h store, through more attractive pite this slippage, couponing clearly store promotions, seasonal tie us recipe and menu suggestions, etc. And should more emphasis be pla ed Why is this so? The reason is that not on competing with the fast food operators on the price of hamburge and interesting meals that can be pre pared with the products bought from your favorite supermarket?

A lot of good work has been don in these areas, but we can't help but wonder if we haven't become so pre occupied with price alone in recei

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know everything You noodle-makers about noodles, but Henningsen, the egg people, can tell you something new about eggs. nella-negative, by test. We homoge-First, we can save you money on eggs you don't put in your egg noodles. We guarantee absolute uniformity, and tightly-controlled moisture content, which is something a hen can't do. Because we guarantee a minimum of 95% egg solids in our whole egg and egg yolk products, they have a built-in safety margin that keeps your egg noodles safe'y at or over the 5.5 per cent egg solid minimum content set by Federal regulations. So you don't have to pour in a lot of extra egg for good measure when you use Henningsen egg solids. First, we can save you money on nise our egg solids for uniformity. We can also tell you ways to save money on the eggs you put into your egg noodles by better methods of handling and blending and storing eggs in your plant. And we know all the ways. After all, we're the egg people, One more thing. You get fast, on-time, dependable delivery of egg solids from Henningsen. And we have local representatives all over the country to help you out on egg problems.

After all this, we're afraid to suggest that you use your noodle and buy your egg solids from Henningsen, the egg people. But it is a good idea. measure when you use Henningsen egg solids.

And we pasteurise Henningsen egg solids. We also guarantee that they are 100 per cent salmo-Henningsen Foods, Inc. The egg people
2 Corporate Drive, White Plains, N.Y. (914) 694-1000

(Continued from page 22)

years that we have taken our eye away from some of the other very important attributes of grocery store shopping.

So much for the factors that will have an influence on all grocery sales in the future. What do we think lies ahead for the Dry Pasta Industry?

As a company, we at Nielsen are not in the business of foreseeing the future. Our function is to measure and analyze what has already transpired. But as one wise man once said-to better foresee the future we must first understand history.

We believe we have here made a fair appraisal of the recent past and should at least try to project the future of the Dry Pasta Industry, at least through 1980.

The Future of Dry Pasta

We have already seen that there was little growth in per capita consumption of Dry Pasta from 1969 through 1972. It was only the inflationary pressures brought to bear on the consumer in 1973 and 1974 that stimulated per capita consumption of Dry Pasta in those years. Since 1974, per capita consumption has grown at approximately 1% per year. Assuming that trend continues through 1980, then Dry Pasta tonnage sales would be 5% higher in 1980 than in 1977. This is not a very impressive growth rate but that is what history says will occur.

There are two other estimates on this chart-one shows an 8% increase, 1980 versus 1977, while the other shows a 15% growth rate. The 8% increase assumes we can stimulate enough interest in this market to pay out at about one-half the anual rate of growth the market enjoyed from 1972 to 1977 while the 15% estimate assumes that we can stimulate enough interest to pay out at an annual growth rate equal to the growth rate established between 1972 and 1977. The choice of whether Dry Pasta annual sales growth returns to the historical flat per capita growth (+0.5% to +1.0%) or to the more recent trends is yours.

Hopefully some of the marketing information exhibited here will help you plan your marketing strategy for the upcoming years.

CREATIVE PACKAGING

by Irv Koons, Irv Koons Associates, New York City



This business of creativity is sort of hard to pinpoint. What do we mean by "creativity"; how do we

SOME INCREDIENTS FOR STIMULATING PASTA GROWTH

- A. Educational programs dealing with the health and economic benefits of pasta as either a main course or a side dish aimed at the faster growing segments of the population—20-34 and 65 and
- Directing our advertising and promotional programs at the rural as well as the urban market.
- Possible new product introduc-D. Right mix of trade and consumer
- promotions.
- Do not ignore product mix and quality in favor of price consid-

recognize it: how do we go about finding "creative" solutions?

Some years back, a major study was conducted to try to find a common denominator for creative genius. The details of the lives of people considered creative giants in the past, were carefully studied and correlated with particular regard to the underlying psychological factors. The formative years of people such as Leonardo Da Vinci, Beethoven, Edison, Einstein and many others were included in the study. The only common denominator that could be found was hard work. The underlying basis of any creative success is tremendous amounts of work-study. observation, application, trial and error, research, dedication, etc.without which the inspirational idea cannot be realized or brought to fruition.

The package designer has a strange goal that he aims at as a result of all his hard work and creativity.

Package designers are in the business of destruction. We create in order to have our work Destroyed. We are one of the few types of creative artists who are unsuccessful unless our work in destroyed. Our work must attract people. They should admire it, pick it up, take it home, use it and Discard it-in order for us to be successful The criteria for the package designer's

von, or how many exhibitions he has een in. It is how many of his works are been used and destroyed-in ssence, how well his work is selling. l'ackage design is probably the

nest important folk art of all time. It art created, not for the elite few, but for the masses. More people see and handle more of this folk art and are more dependent on it-than on any other man-made item in history. The designer has an unparalled opportunity and responsibility to present works of aesthetic quality to numbers of people that were unimaginable a lew years back. Tacked on to the aesthetic respon-

ibility to the masses and the responsibility to the manufacturer to make certain that the product sells, the designer has an additional responsibility to the consumer. Children in school are being taught that advertising never talks about negative features of a product; only the good features are emphasized. In a recent survey (Louis Harris Assoc., and Marketing Science Institute of Harvard Business School) over 70% of the public questioned, believed that much advertising is misleading. By a ratio of about 2 to 1, the public felt consumers get a worse deal in the marketplace now, than they did ten years ago. The designer's responsibility to the consumer is to make certain that the package does not mislead. In addition to all of the creative components that must fit together like a jigsaw puzzle to encourage the consumer to buy the product, the package designer must find the space to clearly state any negatives or hazards about the produ.t. Size, weight, ingredients, nutritional information, etc., also have to b: part of the creative jigsaw.

Inexpensive Advertising

Let me tell you what is the least espensive of all advertising media today. Packaging. The package is your continual silent salesman. The space is free. And it is always there. Whether the product is bought or not, every time the consumer walks seen. It should be the most dynamic and effective item in the manufacturer's marketing mix because it is there at the time and place of the buying decision.

Very few packages, or even complete lines of packaging, cost as much talking about relates to research.

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ork is not how many awards he has as just one minute of prime-time TV There are many marketing consideraat \$100,000. Very few cost even as much as a minute or two of daytime TV at \$17,000 a minute. With the trend of fewer people watching TV, according to recent Nielsen reports, the cost/ratio of packaging to advertising becomes even more significant.

When we worked with Charles Revson, of Revlon, he emphasized the value of packaging and talked about why he spent more time on packaging than on advertising. He said that advertising could get a person to the point of purchase, but if the package was not right, the consumer would not pick it up and would never get a chance to try the product, and decide whether it was good or not.

Many packages remain in the home for a long time. The user must frequently pick it up, squeeze it, turn it, push it, pour it, or whatever—and must look at it frequently. The package becomes part of the daily life of the user. His aesthetic sensibilities are regularly affected by it. The consumer subconsciously develops his image of the credibility and dependability of the manufacturer and his products through constant exposure to the package. Sometimes the package becomes almost as important as the product. At times, the product and the package are so interdependent that it is difficult to tell which is more important. Let me show you a few examples of what I mean.

Package Must Motivate

All of these grandiose statements about the role the package plays and the necessity for creativity, do not do a bit of good if the package doesn't get off the shelf. The best protected, most convenient and excitingly designed package, containing a fabulous product, is worthless unless it gets off the shelf. The package must motivate the consumer to buy it. It must immediately communicate all of the desirable qualities of the product. After having made the sale, the package should motivate the buyer to use it frequently. It should be designed so that it is a pleasant experience to use. the shelf that the product is on, it Profits are seldom made on a one shot basis: repeat sales usually are the key. The package should perform in such a way that there is no question as to which brand to buy next time

Some of the hard work I've been

tions to be taken into account before begining to create. Consumers are defensive in relation to advertising; they do not believe everything they hear or see advertised. However, they are not defensive in relation to packaging, because they are unaware of being affected or motivated in selecting a brand because of the package. For this reason, the package is a particularly effective selling tool. A package . . . container shape, color and design are communication-not decoration. It is the most effective selling tool because it influences people on a subconscious level. Consumers have not become defensive with regard to non-semantic selling techniques

Package design and package deci-sions should not be based on subjective attitudes. There are risks to be considered when making a package change. There could be high risk in the change of a name, or color, of shape of a package design. Research might be needed to help make de-

Market Research Essential

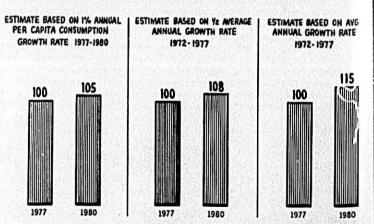
In the final analysis, though, the most important marketing consideration is the consumer-the lifestyle of the person to whom you want to sell. Good market research is essential. A demographic market profile is automatically needed. Psychographics has recently become another important aid to the creative process. Designing for a market segment that has been proven to be traditional or conservative is quite different from designing for an audience that is CHIC, sophisticated and willing to try new things with some appreciation of contemporary art and experimental thinking.

Before we begin to create a package, we must have a full knowledge of the reasons the shopper might have to buy or not buy the product. Designers cannot create in a vacuum; creativity requires a wealth of information to draw upon.

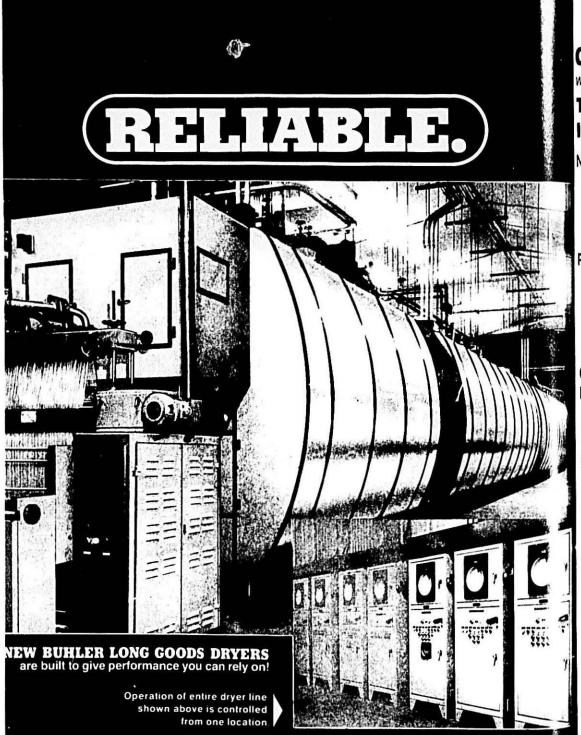
No product will sell just because the product is good. This is a little understood fact although it has been researched and proven again and again. The consumer must have a subjective reason to buy it. The design of the package contributes heavily. along with effective advertising, to

(Continued on page 26)

ESTIMATED CASE SALES - DRY PASTA MARKET



THE MACARONI JOURNAL



Completely re-designed

w 'h features that make them

THE MOST RELIABLE IN THE INDUSTRY!

New Conveying system never stops.

Product moves slowly and continuously from spreader to accumulator. No starts and stops. Simplified design means greater reliability since there is less wear than conventional stop and go dryers.

Product is consistently excellent

because drying action is always steady You can count on the product to come out with appealing color and texture. Uniform and straight every time Ideal for handling with automatic weighing, transporting and pack aging machines.

Climate zones are positively separated.

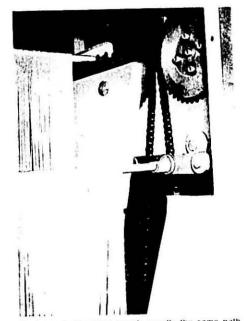
Extremely tight enclosure with Buhler patented "Delta T" control allows high temperature, high humidity drying environment.

Capacity range 500-4,000 lbs/hr.

Standard stick lengths: 60 or 80 inches.

Ask for details

on the built-in reliability of Buhler dryers and other macaroni equipment. Call us or write: BUHLER-MIAG. INC.. P.O. Box 9497. Minneapolis. MN 55440. (612) 545-1401 / Eastern Sales Office: 580 Sylvan Ave.. Englewood Cliffs. NJ 07632. (201) 871-0010 / BUHLER-MIAG (Canada) LTD.. Don Mills. Ontario. (416) 445-6910.



Each spagnetti strand travels exactly the same pain



Super sanitary design, easy maintenance. A page 5 sanitary design as a reserve to the first transfer of the fi

Complete Macaroni Plants by

BUHLER-MIAG

more influence on buying decisions than all the copy used to describe the product. For instance, research has shown in over 95% of the time, a be no other criteria. You seldom comperson asked to describe a package pare the estimates of surgeons-you will first describe its color.

Selecting a Designer

Creativity cannot come from the designer alone. The client has to be creative in his selection of a designer and in working with the designer. This is one of the most important steps in the whole creative process. If you fail here—the whole project fails. You shouldn't necessarily look for a designer who has done work in your project should ultimately look like.

Where do you find creativity in packaging? We feel that independent package design firms or consultants are the most qualified to be considered. Your designer should be expert in every phase of packaging design—aesthetics, marketing, technical, research, cost, etc. Your designer should be completely free to look in all directions for a solution, without limitations having to do with capabilities of any one particular type of supplier. Your designer should get his information first hand, rather than through a sales department. There are only 6 or 8 large independent firms specializing in package design and no more than a dozen or two in the medium sized category. The rest operate alone or with a limited staff. I mention size because it could have an effect on who is right for the project. A large project with tight deadlines requires a large enough staff to handle it.

The Cost

How much should creativity cost? few design firms that feel they should get a percentage of the profit if they produce a creative solution that sells. Or charge whatever they think the firm's higher overhead charges. Be- be more accurate than other tests in

the subjective reasons to buy. Package claims have to be believable.
Non-verbal symbols and color have ware of prices that come in too low—any designer who competes on prices pay off or not, must have some problems. The final selection of the designer should be based solely on who is the best one to solve your problem. There should just look for the best one.

> If the product is good enough to produce, it deserves every chance to succeed. The package will be around for years; advertising can be changed more easily and with less risk.

The key word to working with a designer is involvement. In order to develop the best and most creative solution to a problem, the designer should be involved at the very beginning of the marketing and developproduct category. Nor should you ment process. He or she should be made a part of the marketing team semble your concept of what the at a very early stage in the development of a product and should become involved in every aspect of the effort.

> One of the basic principles of mathematics is that the first step toward solving a problem is to state the problem correctly at the beginning. A qualified package designer may help state the problem before work is begun. When the designer is called in at later stages of development, the client is utilizing only part of the creative thinking he is paying

Design Evaluation

Now that all the creativity has been exercised, we come to the problems of design evaluation. Barring subjective evaluations, the original criteria have to be applied to the design to make sure that all of the criteria have been met. And every executive in the company who has any relationship to the product should be involved in the final decision, so there are no surprises, and so that the most experienced thinking in the company will be utilized.

A Nielsen study on new product What is it worth to you? There are a introduction showed that 67% of product failures in packaged goods could be traced to inadequate packag-ing. It is sometimes helpful to use one of the methods of design research traffic will bear. For the rest of us, to help make a decision. However, prices should work out about the same many methods in use are false, valuefor the same services offered—salaries less and misleading. Your package deand income in the design field are on signer should know which is which a fairly equal level. Charges higher and why. Of course, market simulathan the average usually reflect a tion tests or actual market testing will

Check List

Finally, let me run through a quick check list of items to be considered in your search for creativity in packaging. The list has been condensed from a 12 page questionnaire/checklist our firm frequently uses when working on new projects.

What is your reason for this prod uct? Is it a new product, a redesign, a line extension? Why is your product hetter than the others?

Who are the cast of characters to be involved along the way?

Have your schedules and deadlines been realistically worked out?

products and all the pertinent information about them available?

Are there any special features that might be advantageous, relative to the competition? Such as new dispensing methods, etc.

Have you established all of the criteria for success?

Have you pinpointed your ultimate consumer—age, sex, income, psy-chographics?

Have you detailed the distribution channels and the visibility in your outlets-shelf position, facings, lighting, etc.

Have you thought about the tailer and making things as co venient for him as possible?

Finally, does your new package have its own personality, in-ividuality and consumer attration? Does it have remembran e value? Will it sell itself in te store and at home?

I hope I've pinpointed some of what goes into : ching for a creative solution in packaging. I haven't answered what we mean by "creativity." However, we can recognize it when the cash register starts working over-

Life is a race, reminds Joseph II. Sizoo. Don't whimper when the track is rough and the goal is distant. One day you shall reach it.

THE MACARONI JOURNAL



backs to buying an automatic feed spa-ghetti packaging system. Complexity and Price.

The Hayssen RT 176 has changed all that. Now you can get a simple, easy to operate, highly accurate automatic spaghetti packaging system which is, quite frankly, an incredible bargain.

A simple, accurate feed system.

A simple, accurate feed system.
The key to the RT 176 is a revolutionary cascading tower volumetric feed system. While it can achieve the same accuracies obtained on expensive, hard-to-handle scale systems, it is as simple to understand as it is to maintain. You don't need a highly trained specialist just to keep your packaging line running amoothly.

matched to a proven Horizontal

packaging machine
The RT 176 features the very same high
quality Horizontal Form, Fill, Seal machine proven on literally hundreds of
other pouch packaging applications
around the world. High speed, high quality packaging over a variety of materials
—trom celiophane to polypropylene to
polyethylene — combined with quick polyethylene — combined a s changeover features, assure a s changeover features, assure a s

HAYSSEN RT 176... the simple,

inexpensive way to automate your packaging.

Match your packaging to your production.
The design versallility of the RT 176 allows you to integrate your packaging to
production and plant requirements. It can
be automatically fed from the floor above
as the spaghetti is discharged from the
stripper cutter. Or, it can be fed from
the same floor with an optional bucket
elevator system.

Totally U.S. built.

There's nothing quite as frustrating as downtime. And that's exactly why a totally U.S. built machine, backed by an extensive domestic field service organization and local parts supply can be of salidat importance.

Get the facts.

There's more to the RT 176. Write or call now and we'll be happy to help you

☐ Please have	representative call me at:
state.	zip
city	
address.	
company	
title	
name	

HAYSSEN MANUFACTURING CO., SHEBOYGAN, WI 53081, Thelford, England, Zingonia, Italy A BEMIS CO. VERTICAL FORM, FILL, SEAL/NET WEIGHT SCALE SYSTEMS/HORIZONTAL FORM, FILL, SEAL/CUSTO'M PAPER INDUSTRY OVERWRAP/PLASTICS FORMING MACHINERY

Good Nutrition Will Help Sell Pasta

by Sal Maritato

Those of us in the durum milling industry have known for years that pasta products represent an inexpensive, yet highly nutritious, value for

Yet a majority of American shoppers probably are not fully aware of this because they share some widespread misconceptions about nutrition. One such incorrect notion is that starchy grain products, such as noodles, bread and cereals, are particularly fattening.

The task of educating the American public about the value of our products has been made easier recently by the U.S. Senate Select Committee on Nutrition and Human Needs. Among the committee's list of dietary goals is the recommendation that Americans "increase consumption of fruits and vegetables and whole grains."

Late last year, a home economist with the U.S. Agricultural Research Service said that most Americans would have to increase individual consumption of grain products by 69 percent in order to meet these goals. This home economist, Betty Peterkin, also said that men from 20 to 54 should roughly double their average intake of pasta or cereals, as well as dramatically increase their consumption of bread or its equivalent.

Dietary Goals

revised set of dietary goals states:

nize that the public is confused about what to eat to maximize health. If we mins, vitamin C, and other nutrients," as a government want to reduce a lending consumer publication stated health costs and maximize the quality recently. of life for all Americans, we have an obligation to provide practical guides to the individual consumer as well as set national dietary goals for the country as a whole.

"These recommendations, based on current scientific evidence, provide guidance for making personal deci-sions about one's diet. They are not a legislative initiative. Rather, they simply provide nutrition knowledge with which Americans can begin to take responsibility for maintaining their health and reducing their risk of illness."



This Senate report represents a fantastic opportunity for the cereal processing industry which certainly includes those of you manufacturing such products as macaroni, spaghetti and noodles, as well as International Multifoods, high quality supplier of the raw material used for these products. You might say we have a federal mandate to increase sales of our products!

We need to promote the consumption of complex carbohydrates-fruit, vegetable and grain products-to the point where they once again are the primary basis for energy (caloric) intake on the part of consumers.

Need to Combat Myths

Misconceptions such as, "When dieting, avoid starchy foods," get in the way of getting the best nutrition for the least cost, according to the The foreword to the Committee's U.S. Food and Drug Administration. Eliminate such carbohydrate foods as 'We must acknowledge and recog- pasta from your diet and you cut out very good sources of several B vita-

Another myth held by many consumers is that carbohydrates, not excess calories, make fat. In actuality, to the same period in the previous to lose weight a person either has to eat fewer calories or use up more. It's that simple.

Another important fact to keep in mind is that carbohydrates are the sole or primary fuel for many of the body's most important functions. A person's overall health can be jeop-ardized by a diet which excessively restricts carbohydrates.

balanced diet by having several serv- mil. bu. respectively.

ings daily from each of the four main food areas-the milk, meat and vege. table groups, as well as the cereal

As the American public becomes more aware of the need for grain products, consumer demand will in crease. Multifoods is ready to help you meet this increased demand.

We've been supplying premium quality semolina and durum flour for 35 years, and have grown to become the second largest durum miller in the United States. You can count on us for high quality products, depend-able service, and helping to raise con-sumer awareness of the value of your products.

IM Dividends

International Multifoods Corp. de clared a ergular quarterly dividend of 25 cents per comon share, payable April 15 to shareholders of record on March 27.

A regular quarterly dividend also was declared on each series of the company's preferred stock, with the same record and payment dates as the common stock dividend.

Multifoods has paid dividends on its common stock each year since 1923, and its dividend payment has increased annually for the last six

Excellent Exports

Despite lags in approval of CC and P.L. 480 programs, the Agricui ture Department's export statistics is dicate that to date the 1977-78 may keting year has been excellent i. spring wheat and durum exports. E ports including shipments of dollarsales, CCC and PL 480 programs from June 1977-January 1978 totalled 10 mil. bu. of hard red spring wheat an 41 mil. bu. of durum. In comparison marketing year those quantities represent increases of 24% and 31% respectively. Trade sources pointed to favorable conditions including improvements in PL 480 and CCC credit programs as important factors in intaining increased export levels for the remainder of the season. At this writing export disappearance of estricts carbohydrates. hard red spring wheat and durum is
Of course, you can only achieve a estimated at 150 mil. bu. and 60-70

JACOBS-WINSTON LABORATORIES, INC.

P.O. Box 361 - 25 Mt. Vernon Street Ridgefield Park, New Jersey 07660 Phone: 201-440-0022

It is with pride that we call your attention to the fact that our organization established in 1920, has throughout is 58 years in operation concerned itself primarily with macaroni and noodle products.

The objective of our organization, has been to render better service to our clients by specializing in all matters involving the examination, production, labeling of macaroni, noodle and egg products, and the farinaceous ingredients that enter into their manufacture. As specialists in this field, solutions are more readily available to the many problems affecting our clients.

We are happy to say that, after 58 years of serving this industry, we shall continue to explore ways and means of improving our types of activities to meet your requirements, and help you progress with your business.

James J. Winston Marvin E. Winston

APRIL, 1978



Pasta Partners.



Peavey and pasta makers. Working together . . . partners in profit. Milling of Semolina and Durum flour isn't a sideline with Peavey. We're more in the total people feeding process than most suppliers to the pasta industries . . . from field to table. Peavey is a leading supplier in both quality products and production capacity for service to customers' total needs. We've been at it over 100 years. And we believe our future growth depends on helping our pasta manufacturers grow.

manufacturers grow.

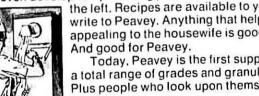
In fact, pasta is a way of life with many of our Peavey people. Everything we do has one objective. To bring you the finest Durum products. With rich golden color. The color of quality King Midas Semolina and Durum flour.

That's why we begin with the North Country's finest Durum wheat. And mill it in facilities designed specifically for the production of Semolina and Durum flour.

We make pasta in miniature press and driver operations

We make pasta in miniature press and dryer operations. And we check the pasta for color and constancy. We also work with our customers on new product innovations... creative shapes . . . with this miniature equipment. Confidentially, of course.

We even develop recipes using pasta. Like the dishes at



the left. Recipes are available to you with no obligation. Just write to Peavey. Anything that helps make pasta more appealing to the housewife is good for the pasta makers.

Today, Peavey is the first supplier of Durum products with a total range of grades and granulations. To match your needs. Plus people who look upon themselves as your pasta partner.

Peavey Industrial Foods Group

GMA Net Weigh Plan

Both the Agriculture Department and the Food and Drug Administration are studying petitions asking that USDA scrap its controversial netweight labeling proposal and adopt an alternative proposed by the Grocery Manufacturers of America.

GMA petitioned both agencies to adopt its standards during recent hearings on the proposed regulations.

Donald Houston, an administrator with USDA's meat and poultry program, said neither his agency nor FDA had decided whether it would comment on the petition jointly or individually.

The GMA proposal runs counter to USDA's proposed regulations, be-cause the industry suggests merely "fine tuning" present weight labeling procedures. The GMA plan would still permit products on supermarket shelves to be "short weight" as long as packages were full weight at the

The USDA proposal would require that 1 lb. of corned beef, for example, weigh at least 1 lb. for months, or even years, after leaving the plant. In addition, liquids that normally drain out of a product such as poultry could not be counted as part of the product's net weight.

Meat and poultry industry spokesmen told a USDA hearing panel the price of their products could increase by up to 5¢ a pound, if the agency's proposal were adopted.

Under the GMA proposal, packers would still have to meet full netweight standards only at the packaging plant. However, the state or local inspector would be given new op-tions to guarantee that a product was not short weight at the plant, according to Mahlon A. Burnette, 3d, GMA director of scientific affairs.

Burnette said a local inspector who suspected shortweight could investigate to determine whether that lot had been inspected at the production

If the random-weight verification tests had not been performed by USDA inspectors, the local inspector could begin a series of moisture tests shares outstanding a year ago adto check whether the product were justed for the 5% stock dividend in to check whether the product were

Those tests would be based on conventions to be determined by joint of interest baiss.

sessions of FDA, USDA and the National Bureau of Standards, according to GMA's petition.

This group would establish a list of foods subjective to moisture loss or gain. It would also establish the normal moisture content of many foods at the packing plant. Tenderloin pork, for example, might have a moisture content range of 75-78 per cent.

The local inspector investigating a suspected shortweight product could consult the list to determine whether the food was subject to moisture loss. If not, the inspector could begin legal action against the producer or

If the product is subject to water loss, GMA sets out procedures whereby an inspector would perform a moisture analysis of suspected prod-

FMC Drops Cellophane

Chicago-based FMC Corp., the agricultural chemicals and equipment manufacturer, is bowing out of the \$290 million cellophane business. The company's cellophane operations lost \$10 million over the past three years. With increased competition from lower-cost products, FMC, with about 28% of the market, decided to close its 80 million ton Fredericksburg (Va.) plant after spending \$1.3 million for modernization just last year. The withdrawal leaves Du Pont Co. and Olin Corp. of Stamford, Conn., as the only remaining domestic manufac-turers of cellophane. Du Pont notes that current domestic demand is only about 85% of the combined capacities of Du Pont and Olin.

A D M Earnings Down

Net earnings of Archer Daniels Midland Co. in the second quarter of the 1978 fiscal year, the three months ended Dec. 31, totaled \$14,605,533, compared with \$16.877,720 in the same period of 1976. The net for the second quarter of the current fiscal year was equal to 47¢ a share of common stock, compared with 54¢ a share in the previous year, with the September, 1977, and acquisition of New Era Milling Co. on a pooling

Egg Products

Winter weather was a factor in egg prices advancing in February. Fuel restrictions caused some dryers to reduce output. February prices:

Central State Nest Run \$9.00 to \$11.70 Southeast Net Run \$9.00 to \$10.50 Frozen Whole 33¢ to 35.5¢ Frozen Whites 24¢ to 27¢ Dried Whole \$1.30 to \$1.48 Dried Yolks \$1.25 to \$1.48

Egg Production

According to the Crop Reporting Board the nation's laying flock pro-duced 5.7 billion eggs during January, 5% more than a year ago. Layers on February 1 totaled 282.7 million, 2% more than the 276.8 million a year earlier but 2% fewer than the previous month's number of 287.6 million. Rate of lay on February 1 averaged 64.0 eggs per 100 layers compared with 62.7 a year earlier and 65.3 eggs on January 1, 1978. Egg-type chicks hatched during January totaled 36.8 million, down 9% from year ago. Eggs in incubators on February 1 at 34.1 million were 14% below a year ago.

Durum Markets

Wicked winter weather in February created logistics problems and curbed running time for durum mills. Shipping directions were excellent although mills were often unable to meet customers' requirements. No. 1 Hard Amber Durum ranged

\$3.35 to \$3.70 bushel, Minneapolis during February. Semolina was quoted in a range of \$9.10-\$9.50 with granular 15¢ less, flour 40¢ less per

Mark Heffelfinger to Head Millers' Federation

Marcus W. K. Heffelfinger will become the 43rd chairman of the Miller's National Federation at the organiza-tion's 1978 convention. Mr. Heffelfinger, group vice-president of the Industrial Foods Group of Peavey Company, will take over from Donald M. Mennel, president, The Mennel Milling Co., Fostoria, Ohio, at the May 7-11 convention at the Broadmoor in Colorado Springs. Mr. Mennel has been Federation chairman since the 1976 convention.

CTS CORPORATION

Our dried eggs are a solid success!

Our customers make breads, cookies, cakes, candies, pasta, mayonnaise, salad dressings and doughnuts. As they are the largest and smallest of companies, we ship in their choice of poly-lined 50 pound boxes and 150 or 200 pound fibre drums. You, too, can have your eggs any way you like them. Choose between spray albumen, spray dry yolk, spray dry whole egg and spray dry blends of which we have four. Our popular NEPCO #10 has a rising quality. If your formula requires a particular blend, call us. We will make it for you according to your individual specifications. e can also provide you with liquid whites, yolk or whole egg red in selected temperature controlled tank trucks. You have only to write us or call us. We guarantee you will be well pleased with our quality control and our service.



He's a Breadwinner

Stunt work demands the strength of a finely tuned athlete—the coordination of a ballet dancer—the nerve of a tightrope walker—the energy of a child. When the crew breaks for lunch he may find himself in a deserted ghost town or barricaded on the 17th floor of a building. Rarely, if ever, is he working near a restaurant.

He's learned that the surest way to provide himself with the energy he requires, is to bring it with him. He likes macaroni—always has. Aside from tasting god, he needs the energy it supplies and likes the versatile ways it can be prepared.

He's probably unaware that his favorite brand of pasta starts at the ADM Milling Company. ADM begins with fine durum. milled into golden semolina. The quality pasta blends are then delivered, clean and consistent, to the pasta manufacturer.

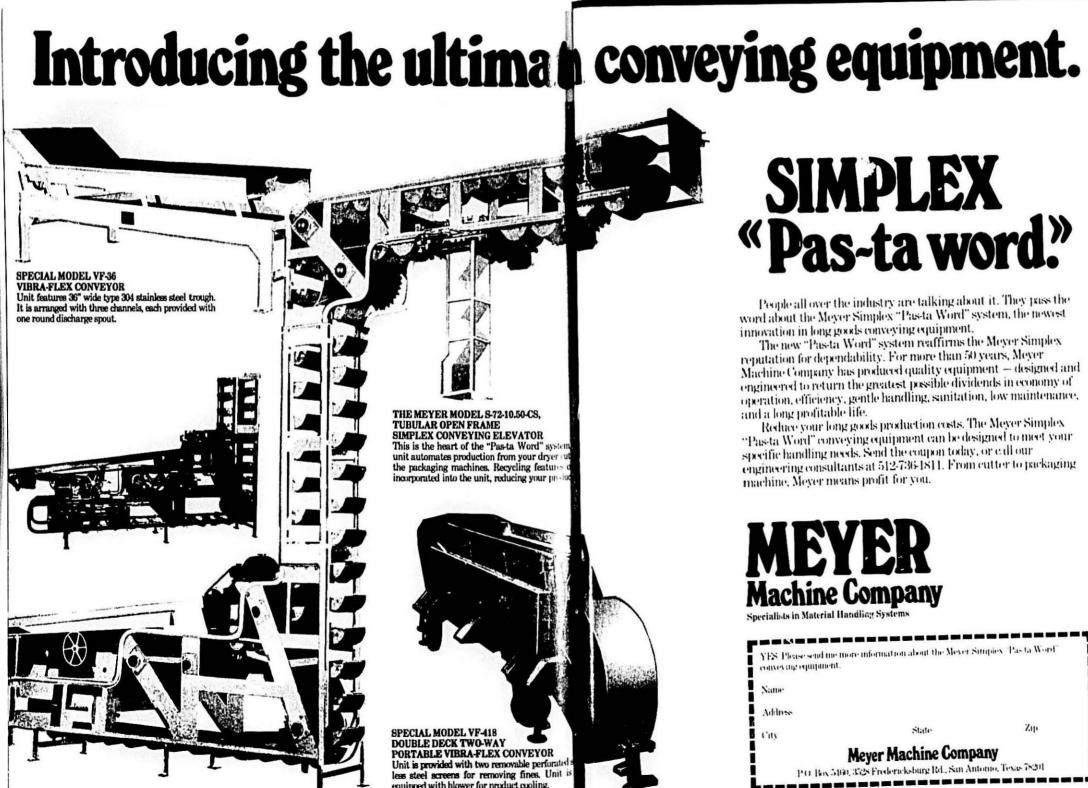
At ADM, we don't mind if this stunt man doesn't know about our contribution to his favorite food. After all, we don't know that much about stunt work. What we do have in common, is the pride we take in the work we do. From the milling center—to the pasta manufacturer—to the consumer.

Breadwinners supplying Breadwinners since 1902.



ADM MILLING CO.

Baker's shortening, corn sweeteners, soy protein for the baking industry.



SIMPLEX "Pas-ta word."

People all over the industry are talking about it. They pass the word about the Meyer Simplex "Pas-ta Word" system, the newest innovation in long goods conveying equipment.

The new "Pas-ta Word" system reaffirms the Meyer Simplex reputation for dependability. For more than 50 years, Meyer Machine Company has produced quality equipment - designed and engineered to return the greatest possible dividends in economy of operation, efficiency, gentle handling, sanitation, low maintenance, and a long profitable life.

Reduce your long goods production costs. The Meyer Simplex "Pas-ta Word" conveying equipment can be designed to meet your specific handling needs. Send the coupon today, or call our engineering consultants at 512-736-1811. From cutter to packaging machine. Meyer means profit for you.

Machine Company

YES Please send me more information about the Meyer Simplex. Pas ta Word

Meyer Machine Company

P.O. Box 5460, 3528 Fredericksburg Rd., San Antonio, Texas 78201

BUYERS' GUIDE

The following firms support the industry's trade association as associate members and/or as advertisers in the Macaroni Journal:

DURUM PRODUCTS

ADM MILLING CO., Box 7007. Shawnee Mission, Kansas 66207. Manufacturers of Comet No. 1 Semolina, Romagna Durum Granular, Goldenglo Fancy Durum Patent Flour, Palermo Durum Patent Flour. See ad pages 34-35.

AMBER MILLING, St. Paul, Minnesota 55164. Telephone: Area Code (612) 646-9433. Manufacturers of Venezia No. 1 Semolina, Imperia Durum Granular, Crestal Durum Fancy Patent Flour, and Kubanka Durum Flour. See ad page 11.

GENERAL FOODS, Igleheart Operation. P.O. Box 1128, Pendleton, Ore. 97801; Phone: (503) 276-6511. Durum products. Mr. Dan Breland.

GENERAL MILLS, INC., Sperry Di-vision, Bakery Flour Sales, Western Region, P.O. Box 10-730, Palo Alto. California 94303. Manufacturers and distributors of Royal and Golden Durum Granulars; Sperry Macaroni Flour; Gold Medal Semolina No. 1; Exalto Durum Clears; Gold Medal Durum Flour, Northern California and Pacific Northwest call: Jean Hassell, Marketing Manager (415) 327-0372; Southern California call: Don Anderson (213) 583-4335.

INTERNATIONAL MULTIFOODS CORP., Durum Product Division, 1200 Multifoods Building, Minneapolis, Minnesota 55402. Manufacturers of Duregg Egg Noodle Mix, Como No. 1 Semolina, Capital Durum Granular, Capital Fancy Durum Patent, Ravena Durum Patent, Bemo Durum First Clear and Naples Durum Second Clear, Duregg (TM). General offices in Minneapolis; sales offices in New York. Principal durum mills in Baldwinsville, New York, and St. Paul, Minnesota, See ad on Back Cover.

VATOR, Grand Forks, North Dakota 58201. Manufacturers of Durakota No. 1 Semolina, Perfecto Durum Granular, Excello Fancy Durum Patent Flour, Nodak Durum Patent Flour, Red River Durum Flour, and Tomahawk Durum Flour, General Sales Office: Mr. V. M. Peterson. Grand Forks (701) 772-4841; Disrtict Office in Stillwater, Minnesota: Ray Wentzel (612) 439-5662; in Haworth, New Jersey: John Tobia (201) 384-3862. See pag: 13.

PEAVEY COMPANY INDUSTRIAL FOODS GROUP, Peavey Building, 780 - 2nd Avenue South, Minneapolis, Minnesota 55402. Manufacturers of King Midas No. 1 Semolina, King Midas Durum Granular-King Midas Durum Fancy Patent Flour, Kubo Durum Fancy Patent Flour, Uno Durum Patent Flour, General Sales Office: Minneapolis. William H. Grady, Sales Manager, (612) 370-7837; K. Charles Kolkjen, District Sales Manager, (612) 370-7836; District office in New York: Gerald P. Marron (914) 428-1250. District office in Elk Grove Village, Illinois. (312) 640-7122. See ad pages

SEABOARD ALLIED MILLING CORP., P.O. Box 19148, 1550 West 29th Street, Kansas City, Missouri 64141. Telephone: Area Code 816. 561-9200. R. G. Myers, Lin L. Lundgaard, Henry L. Sumpter, John LaSpina. Complete line of durum products milled in Albany, N.Y. See ad page 49.

EGGS

BALLAS EGG PRODUCTS CORPO-RATION, 40 North Second Street, P.O. Box 2217, Zanesville, Ohio 43701. Sales office in New York City. Packers of pasteurized frozen and spray dried high color yolks for the poodle trade

NORTH DAKOTA MILL AND ELE- BENDER GOODMAN CO., INC., 5 Worth Street, New York, New York 10013. Top Hat Frozen Dark Yolk; Top Hat Frozen Whole Eggs; Sonstegard Foods Dried Yolk; Sonste gard Foods Dried Whole Eggs. J. Talcott Vice President (212) 431-

> CUTLER EGG PRODUCTS INC 612-30 Sedgley Avenue, Philadel-phia, Pa. 19140. Mr. Harold M. Cutler-Sales Telephone: Area Code 205, 585-2268. Packers and distributors of frozen eggs and egg solids Processing plant: Industrial Park Road, Abbeville, Alabama 36310.

HENNINGSEN FOODS, INC., 2 Con porate Park Drive, White Plains. New York 10604. (914) 694-1000. Manufacturers of Free Flowing Egg Yolk Solids, Free Flowing Whole Egg Solids, Dehydrated Chicken, Beef, Ham and Turkey products Sales offices in each of the major cities in the United States, Western Europe, Japan, Mexico and South America. Technical assistance available. Samples sent on request. For information, contact: Vito J. D'Ago tino, Michael H. Cruger, Frederic W. Hartfelder, Kit Henningse David Theis. See ad page 21.

MONARK EGG CORPORATIO 601 East Third Street, Kansas Cit Missouri 64106. (816) 421-1971). Manufacturers of all Dried and Frozen Egg Products, including Whole Egg Solids, Egg Yolk Solids and Egg White Solids. Dark color available. Main office in Kansas City. Facilities located in Missouri and Kansas.

JULIUS GOLDMAN'S EGG CITY, fornia 93021. See ad on page 41.

8643 Shekell Road, Moorpark, Cali-

TIONAL EGG CORPORATION, I.O. Box 338, Social Circle, Georgia 30279. Telephone: (404) 464-2652. Fgg Yolk Solids, Free Flow. Whole Egg Solids, Free Flow. Frozen 45% lids Yolk. 3.0 Color. See page 33.

VILLIAM H. OLDACH, INC., P.O. Box 337. Flourtown, Pennsylvania 19031. Specializing in egg products sale and distribution to discriminating food manufacturers with strict DOTT, INGG. M., G. BRAIBANTI & adherence to quality specificators. Liquid-Frozen-Dried.

CHNEIDER BROS., INC. 315 North Carpenter Street, Chicago, Illinois 60607. Mr. Morris Schneider, president; Clifford Schneider, V.P. Sales Marketing, Chicago, IL; Sandy Seidner, V.P. National Sales, Phoenix, AZ; Don Potts, Sales Manager, Atlanta, GA. Liquid frozen and dried egg products.

RANIN EGG PRODUCTS COM-PANY, 3330 Woodrow Wilson Avenue, Jackson, Mississippi 39207. Telephone: Area Code 601, 948-6813. Telex 585-401. Processors of dried egg products including free flowing or standard egg yolk and whole egg, complete lines of blended egg products dried to your specifications, and all types of dried egg whites both spray and pan dried, with all products packed under strict quality control. A dission of Cal-Maine Foods, Inc. See ad on page 56.

HILTON G. WALDBAUM COM-PANY, Wakefield, Nebraska 68784. Phone: (402) 278-2211. Egg Processor. Fresh shell eggs, fresh liquid egg, frozen whole eggs or egg yolks, pray dried whole eggs or egg olks. Special package size available. Dark color whole eggs and egg volks available on contact. See page

MANUFACTURING EQUIPMENT

SEECO CORPORATION, 8857 West Olympic Boulevard, Beverly Hills, California 90211. Engineers and manufacturers of complete storage systems for noodles, cut goods and specialty items. Product Lines: Aseeco overlapping bucket lifts (elevators), belt conveyors-sanitary, accumaveyors, vibratory conveyors

and scalping screens, modular dis- CLERMONT FOOD MACHINE tribution systems-vibratory and belt, selectomatic bin storage systems, automatic continuous blending systems. Services: Engineering and plant layout for complete macaroni plants from storage to warehouse. Supervision and installation of all equipment. See ad page 51.

COMPANY, Largo Toscanini 1, 20122 Milano, Italy. U.S. and Canada Office: Braibanti Corporation, 60 East 42nd Street, New York, New York 10017, Phone (212) 682-6407, Telex 12-6797 BRANY NYK, Manufacturers of completely automatic lines for producing long, twisted and short goods. Production lines from 5,000 to more than 200,000 pounds of finished product per day. Pneumatic flour handling systems. All types of specialty machines, including ravioli and tortellini. Free consulting service for factory layouts and engineering. See ad pages

ZAMBONI, Via G. Verga, 3 40033 Casalecchio de Reno, Bologna, Italy. U.S.A. and Canada Office: Braibanti Corporation, 60 East 42nd Street, New York, New York 10017. Phone: (212) 682-6407, Telex 12-6797 BRANY NYK. Manufacturers of coiling machines, ravioli machines, nesting machines. Cartoning, weighing and bag packing ma-

BUHLER-MIAG, INC., 1100 Xenium Lane, Minneapolis, Minnesota 55440; Telephone (612) 545-1401. Planning and engineering of complete macaroni factories: consulting service. Manufacturers of macaroni presses, spreaders, continuous dryers for short goods, noodles, long goods and twisted goods, automatic accumulators for short, long goods and noodles, die cleaners, laboratory equipment. Complete flour and semolina bulk handling systems. Sales offices at 580 Sylvan Avenue, Englewood Cliffs, New Jersey 07632; phone (201) 871-0010, and Buhler-Miag Canada Ltd., 1925 Leslie Street, Don Mills, Ontario, Canada. Phone (416) 445-6910. See ad on pages 24-25.

COMPANY, 280 Wallabout Street. Brooklyn, NY 11206. Manufacturers of automatic continuous lines short and long cut pasta; entirely automatic noodle, next and coil lines (no trays); conventional and fast drying cycles with pre-dryer and finish dryers including bucket and cleat conveyors and many other food processing machinery.

DEFRANCISCI MACHINE COR-PORATION, 46-45 Metropolitan Avenue, Brooklyn, N.Y. 11237. Full range of automatic lines of machinery for both short cuts and long goods including lasagna, from 500 to 5,000 lbs. Automatic long goods cutters, automatic sneet formers and noodle cutters. Drying rooms. Die washers, dry egg feeders, hydraulic tube cleaners, and conveyors. Direct canning spreaders for filling spaghetti at a pre-determined quantity directly into cans. Sanitary, hose down, presses. Concentric extrusion dies. Twenty-five pounds per hour Laboratory Extruders. Pilot and production extruders for snack foods and cereals. See ad pages 6-7.

FOOD ENGINEERING CORPORA-TION, 2722 Fernbrook Lane, Minneapolis, MN 55441. Phone: (612) 544-5055. Design and build custom made machines, coolers, dryers, storage and accumulating systems and diverse equipment. Mr. Ralph Burgess, president.

HOSKINS COMPANY, P.O. Box F, Libertyville, Illinois 60048. TWX 910-684-3278; Phone: (312) 362-1031. Sales representatives for: DeFrancisci Machinery Corp., manufac-turers of macaroni machines (also Clermont Food Machinery Co., manufacturers of pasta processing machinery); Semco, manufacturers of bulk flour handling systems; Aseeco, manufacturers of food conveying and storage equipment.

MICRODRY CORP., 3111 Fostoria Way, San Ramon, California 94583. Multistage drying-pasteurizing using microwave techniques now proven with nearly all types of pasta. Enormous savings in energy, space and time. Also noodle cutters, e washers, shaker pre-dryers. See ad on page 53.

DIES

D. MALDARI & SONS, INC., 557 Third Avenue, Brooklyn, N.Y. 11215. Phone: 212-499-3555. Manufacturer of Extrusion Dies only. see ad page 5.

PACKAGING EQUIPMENT

AMACO, INCORPORATED, 2601 West Peterson Avenue, Chicago, Illinois 60659. Suppliers of fully automatic macaroni and spaghetti conveying, sorting, high-speed weighing, bag forming, filling and sealing, as well as cartoning, equipment for both long and short goods Also slow and medium size pouch forming, filling and sealing equipment for powders, seasonings, and other free flowing products.

HAYSSEN MANUFACTURING COMPANY, P.O. Box 571, Sheboygan, Wisconsin 53081; Telephone: (414) 458-2111. Bill Hollingsworth, Horizontal Form, Fill, Seal Product Manager, located at Home Office. Dave Wecker, Vertical Form, Fill, Seal Product Manager located at Home Office. Don Gable, Midwest Regional Manager, O'Hare Office Center, 3166 Des Plaines Avenue, Des Plaines, Illinois 60018; Telephone: (312) 298-7220. Gerry Secord, Western Regional Manager, 520 S. ElCamino Real, San Mateo, California 94402; Telephone: (415) 342-1454. E. T. Melle, Eastern Regional Manager, 130 West Lanvania 19087; Telephone: (215) 688caster Avenue, Wayne, Pennsyl-3044. See ad page 27.

TRIANGLE PACKAGE MACHIN-ERY CO., 6655 W. Diversey Avenue, Chicago, Illinois 60635. Pulsamatic Vertical Form, Fill, Seal Bag Machines and Flexitron 1600 net weight systems. Pulsamatic bag machines may be equipped with augar fillers for seasoning or soft pouch mixes, with volumetric fillers for short cuts, or with Flexitron scales for short cuts and noodles. Sales offices: 361 Franklin Avenue, Nutley, New Jersey 07110. Phone: (201) 661-0829: 4500 Campus Drive, Suite 304, Newport Beach, California 92660, Phone: (714) 546-6795; 202 Calcita Drive, Santa Cruz, California 95060, Phone: (408) 426-5161; 918 West Greens Road, Houston, Texas 77067, Phone: (713) 440-6464; 6655 W. Diversey Avenue, Chicago, Illinois 60635, Phone: (312) 889-

WRIGHT MACHINERY COMPANY. INC., P.O. Box 3811, Durham North Carolina 27702. Telephone: (919) 682-8161. Form-fill systems for your flexible package needs. A four page bulletin describing Wright's complete line of packaging ma-chinery for the macaroni industry now available. See ad on page 47.

PACKAGING SUPPLIES

CLOUDSLEY COMPANY, 470 West Northland Road, Cincinnati, Ohio 45240. Flexible packaging converters. Mr. Howard J. Maue. Telephone: (513) 825-4800.

DIAMOND PACKAGING PROD-UCTS DIVISION, Diamond International Corporation, 733 Third Avenue, New York, N.Y. 10017. Creators and producers of multi-color labels, folding cartons and other packaging materials; point-of-purchase displays, booklets, folders, banners and other advertising materials. Sales offices in 28 principal cities offer nationwide package design service and marketing consultation. 2 Divisional General Sales Offices for inquiry convenience: Midwestern Area - Middletown. Ohio & Eastern Area-New York, New York. Ten manufacturing plants are strategically located coast to coast. See ad inside back cover.

FOLD-PAK CORPORATION, Van Buren Street, Newark, New York 14513. Eastern Sales Office: 110 Charlotte Place, Englewood Cliffs, New Jersey 07632. Fold-Pak Corporation specializes in the manufacturing of folding cartons for the macaroni and frozen food industry. Manufacturing Capabilities: Offset Printing from 2 to 6 colors, Rotogravure and Flexographic Printing. Die-Cutting, windowing machines and special finishes back up majoprinting equipment. Mechanical Packaging Systems: In-depth engineering analysis to help assure you of the most efficient packaging system in your plant. This is followed up by continuing service by our engineers. Packaging Design: Professional designers experienced in the pasta and related industries are available for your packaging needs.

INLAND CONTAINER CORPORA-TION, 37333 Cedar Blvd., P.O. Bo 565, Newark, California 94560. Co:rugated containers. Mr. Ernes

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SERVICE

JACOBS-WINSTON LABORATOR-IES, INC., 25 Mount Vernon Street P.O. Box 361, Ridgefield Park, New Jersey 07660. Phone: (201) 440-0022. Consulting and analytical chemists sanitation consultants; new product development; labeling new packaging advisors; pesticide, bacterio-logical and nutritional analysis. See ad page 29.

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EASTMAN CHEMICAL PROD-UCTS, INC., P.O. Box 431, Kingsport TN 37662, MYVAPLEX 600 Concentrated Glyceryl Monosteau ate. A powdered starch-complexing agent to improve firmness and re duce stickiness and clumping i macaroni, spaghetti and noodle during processing and in use. Representatives located in all principal marketing centers. Call (800) 251 0351 toll free. See ad on page 45

VITAMINS, INC., 200 East Randolp Suite 5560, Chicago, Illinois 6060 Phone: (312) 861-0700. Manufa turers of enrichment ingredient used by macaroni manufacture and flour millers. Also manufactu ers of protein supplements includ ing defatted wheat germ and mill-proteins of high biological value Sales representatives: East, Loui A. Viviano, Jr., P.O. Box 374, Plainfield NJ 07061 (201) 754-9031; Midwest, Jack W. Rogers, Chicago. Illinois 60601 (312) 861-0700; South. Faia Sales Corp., Inc., 2750 Oregon Court, Bldg. M-11, Torrance, California 90503 (213) 320-6710; and North, FSC Corp. (formerly Faia Sales Corp., Inc.), Suite H, 2336 Walsh Avenue, Santa Clara, California 95050. Phone (408) 248-9290.

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THE MACARONI JOURNAL

APRIL, 1978

DURUM WHEAT IMPROVEMENT Progress Report No. 3, June-December, 1977 Industry Grant Support, 1976-1980 J. S. Quick, Project Leader

Significant Accomplishments

- 1. Release of a new semidwarf cultivar (variety), 'Calvin.'
- 2. Release of a new normal height, strong gluten cultivar, 'Edmore.'
- 3. Results of the 1977 Uniform Regional Durum Nursery were summarized.
- 4. Confirmation of high yield and strong gluten of an experimental semidwarf durum.
- 5. An experimental normal height durum with strong gluten and higher yield than Edmore and 'Ward' was increased for possible release in late 1978.
- 6. Completion of diallel analysis of the relationships between grain yield and its components.
- 7. Permission granted to the project leader to spend a six-month developmental leave at the Plant Breed-
- ing Institute, Cambridge, England.

 8. Successful collection of data for three thesis research programs.

List of Previous Reports

Initial Program Expansion Plan-Macaroni Journal, December, 1975 Progress Report No. 1-September,

Annual Durum Show-October, 1976 Crop Quality Council Report-Janu-

National Macaroni Manufacturers Association Winter Meeting-Febuary, 1977

Progress Report No. 2-M:./, 1977 North Dakota State Wheat Commission-September, 1977

Grant Objectives and Support

Four sectors of the durum industry combined resources to provide a fiveyear supplementary grant to the durum breeding program. The sectors include: 1) the National Macaroni Manufacturers Association, 2) North Dakota farm producers represented by the North Dakota Stat Wheat Commission, 3) the Durum Wheat Millers via the Durum Wheat Committee of the Durum Institute, and 4) a group of U.S. durum exporters.

The major objective of the grant is to provide additional support for cultivar development to allow durum production to compete on an equal basis with hard red spring wheat and other alternate crops. The funds are intended to provide benefits in two observed, and disease resistances re general areas: 1) immediate results from short-term experiments and thesis research, and 2) improved cultivars for future production. The short-term results will be immediately utilized to produce new cultivars. Cultivar development is a long-term effort usually requiring 8 to 10 years for completion following the final cross between two or more parents.

The results reported are those obtained from the total program since the grant funds are used as an integral part of the total effort. The progress reported may include significant contributions from our continuing team effort approach involving the Departments of Agronomy, Cereal Chemistry and Technology, Plant Pathology, Soils, and the Branch

Progress: June 1-Dec. 31, 1977

The second semidwarf cultivar, Calvin, will be released by the NDSU Agricultural Experiment Station in lanuary, 1978. Calvin compared to 'Cando' has higher test weight, higher kernel weight, more desirable kernel size distribution, slightly higher wheat protein and is slightly earlier will help the program determine the in heading. Calvin has a slightly lower average grain yield than Cando and is slightly shorter in height. Calvin has yielded slightly more . . Ward and more than 'Rolette,' Disease re- Quick, to spend a six-month develop actions of Calvin and Cando are sim-

The first NDSU strong gluten cul-tivar, Edmore, will be released by the Agricultural Experiment Station in January, 1978. Edmore is a normal height durum and compared to Ward has much stronger gluten, higher kernel weight, more desirable kernel size distribution, and slightly higher spaghetti color. Edmore has a grain yield similar to Ward, is slightly taller,

about one day earlier, has slightly weaker straw and is similar in disea

The 1977 Uniform Regional Duru Nursery (URDN), the final yield tes prior to release, was conducted at 1 locations in four U.S. states and two Canadian provinces. Calvin had the highest yield average of all cultivar and was two and seven percent highe than Cando and Ward, resp. Only or experimental out of 17 exceeded Calof test weight and kernel weight were main at a high level.

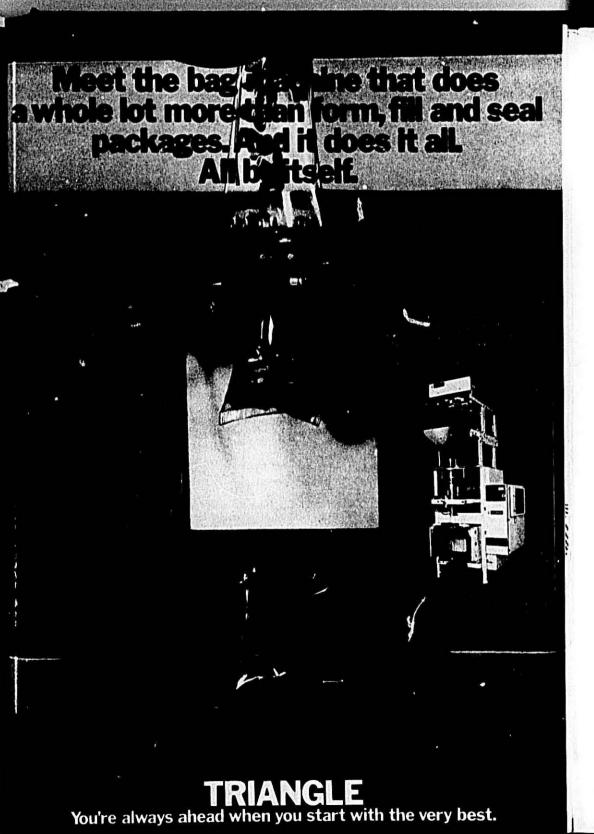
Two new selections will be con sidered for increase and release in late 1978. A strong gluten semidwarf (iter 4 in significant accomplishments) ha outyielded Calvin and Ward by thre and eight percent, resp., over the 1976-77 tests. An experimental norma height durum with strong gluten has outyielded Ward by eight percent over the 1976-77 tests. These two selections represent replacement cultivars for all current cultivars, provid ing the level of performance is maintained in 1978.

An analysis of the relationships between grain yield and its components was completed using a wide array o durum germplasm from North Dakot and other countries. Significant variability for yield components existed among cultivars and selections, hy brid vigor existed for grain yield an its components, fixable genetic effects for yield were relatively more impor tant than non-fixable (i.e., it is possi ble to develop pure line cultivary possessing more of the genetic vari ability for yield), and tiller number was the component most highly assowill help the program determine the most promising approach to continued grain yield improvement.

The presence of a large compete staff allowed the project leader, J. S mental leave at the Plant Breeding I stitute, Cambridge, England, durin October, 1977-March, 1978. This wi allow him to participate in the when breeding program at the Plant Breed ing Institute, one of the most successful in Europe, to learn new techniques and ideas, to conduct short term research projects on durum wheat and to attend plant breeding lectures at Cambridge University

(Continued on page 44)

THE MACARONI JOURNAL



Durum Wheat Improvement

(Continued from page 42)

Additional support from the North Dakota State Wheat Commission will allow attendance at an International Durum Quality Symposium in France and participation in the International Wheat Genetics Symposium in India. Specific research accomplishments, proposals, and new germplasm obtained will be outlined in future reports.

Thesis Research

Thesis research, currently conducted by Tom Wilson will provide information regarding future breed-ing procedures for increased yield. bined data from 1976 yield trials at Langdon are the basis of this research which is expected to be completed in the fall of 1978. The highest yielding lines will be available for further testing in 1978. In addition, Mr. Wilson has been investigating growing methods useful in attaining rapid advancement of successive generations in our winter greenhouse. These results will be useful for possible future application of the single seed descent method of breeding.

Roy Johnston, full-time research assistant supported by grant funds, presented a paper on "Methods of Measuring Semolina Color in the Early Generations" at the annual meetings of the American Society of Agronomy at Los Angeles, CA. From this research it was concluded that 1) the 200 g wheat sample lends itself to the most sensitive testing, 2) a 1-2 gram wheat sample can be useful in a breeding program to dis-tinguish the highs from the lows in a population of F₂ plants from a wide cross and 3) for the best use of time while retaining sensitivity, the 20 gram wheat sample size is recommended. By screening for semolina color in the F2 generation, we will avoid carrying undesirable material on further. This will enable us to make more crosses and consequently increase the opportunity for crop improvement. Other research by Mr. Johnston is progressing on schedule (see semiannual report No. 1, 1976). The first year of data to partition the genetic variance for semolina color fully grown at Langdon, but with has been successfully collected and is some hail loss shortly before harvest. in analysis. Greenhouse crossing is All yield trials were lost at Fargo due currently going on for the second to variable soil conditions caused by stage of this experiment. Generations low rainfall and continuous cropping.

are also being advanced for an experiment to determine the heritability of semolina color and correlations between semolina color and several other quality traits.

Root development studies of eight durum wheats possessing different growth habits were carried out in the greenhouse. Significant differences in total roct growth were noted among the durum wheats. These differences were greatest at 10-12 weeks after planting. These differences were also studied under field conditions during the summer of 1977. A seedling root screening method is also being evaluated for usefulness in the breeding project for determining root development at 7-10 days after planting.

Preliminary and advanced testing at drier western sites (Williston), as described in progress report no. 1, has been delayed by the shortage of definitive guidelines for improved yield and the discouraging response of lines derived from crosses involving parents with higher performance under drier conditions. The completion of thesis research on root development and water utilization mentioned above should help provide information for yield improvement via increased testing at Williston.

Industry Grant

Progress in these and other research areas has been made as a result of increased funding from the industry grant. The additional personnel and operating funds in cooperation with increased state and federal support have allowed a modest increase (10%) in the numbers of materials evaluated in the regular breeding program. More timely planting and harvest op-erations and basic information in critical support areas will allow continuous improvement. A continuous succession of improved cultivars will encourage high production and a continuous supply of high quality durum at a competitive price. Donors of these grant funds and all interested persons and agencies of the durum and pasta industry are encouraged to provide suggestions and comments on research needs and progress.

The 1977 nurseries were success-

Progress was made by selection breeding nurseries at Fargo and Langdon for various height classes strong straw, yield components, as earliness. Germplasm sources from many countries were evaluated and incorporated into further tests and hybridization. A considerable in crease in number of early generation Department.

The 1977 field season produce winter nursery in October. The 1977 78 winter nursery includes over 5000 rows, the largest number of materials ever grown. Utilization of shorter rows and narrower spacings made possible by improved plant type and grouping of similar materials has provided a continuous improvement space utilization efficiency. Rapid in crease and generation advanceme are greatly accelerated through the use of a winter nursery.

Letter to the Editor

Dr. J.R.S. Ellis, Senior Scientist RHM Research Ltd. The Lord Rank Research Centre High Wycombe, Bucks, England

I was interested to read Mr. S.R.U Ahmed's article in last October's ed tion of the Macaroni Journal. The described a laboratory procedure i the detection of common who (Triticum vulgare) in pasta producputatively made from durum who (Triticum durum).

The technique is based on one veloped by Gilles and Youngs in 19 and is also the "official" procedure the E.E.C. However, for reason which include those mentioned Ahmed, European pasta manuf turers now consider this procedu obsolete and are investigating alto natives which are more sensitive, liable and rapid.

The initiative came from the U.N.A.F.P.A. (Union des Association de Fabricants de Pates Alimentair de la C.E.E.). In March, 1976, mem bers of this association met scientists including Dr. P. Feillet of Montpellic

(Continued on page 46)

THE MACARONI JOURNAL

Eastman selections was made for gluten quality evaluation in cooperation with the OVETCOOKED Cereal Chemistry and Technology many promising lines which were harvested and planted in the Mexico

ruck! Let's face it, there's nothing more unappeizing to look at or try to sell than soggy spaghetti, acaroni or noodles.

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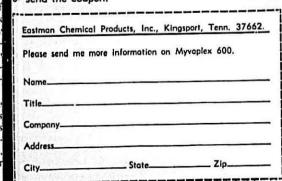
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Detroit, Mich., Carl Humphrey, (313) 642-4320

Letter to the Editor

(Continued from page 44)

and Professor P. Resmini of Milan University, at the Ranks Hovis Mc-Dougall Research Laboratories in the U.K., to discuss the relative merits of alternative methods.

The main conclusions drawn from this meeting were that techniques based on the electrophoretic separation of proteins were preferable both theoretically and practically. No decision was made to recommend one technique: instead a ring test was devised, whereby European manufacturers would supply samples of known composition to several laboratories for analysis. The techniques being compared are primarily those of respectively Feillet and Resmini.

The latter was not mentioned by Ahmed in his article. I would urge your readers to take note of Resmini's work, particularly his most recent co-worker Bernardi which quotes a sensitivity of 1%; and to follow the course of the U.N.A.F.P.A.'s critical appraisal of the best current techniques.

Yours faithfully, Dr. J.R.S. Ellis

Modernization Complete at Peavey Mill in Wisconsin

Peavey Company's commitment to serving pasta manufacturers with high quality durum products has been significantly enhanced with completion of major renovation and modernization at its mill in Superior, Wiscon-

The multimillion dollar program increases daily capacity at the facility to 12,000 hundredweights, which establishes the Superior mill as one of America's largest semolina and durum flour production units.

The highlight of the mill's operating features is a sophisticated mill control panel, which makes it possible to produce an exact product to match individual customer orders and reg- weights. ulate all phases of production from one central point.

Also part of the project is a new bulk loading system which allows an entire rail car to be loaded in a matter of minutes, when it formerly took hours.

Vice President, "is a prime reason firmly believe the renovation and up-

Peavey can continue to claim the top durum milling capabilities in the U.S."

The massive effort began as a 10-year program in 1972 and, according to Heffelfinger, "progressed so smoothly and without any interruptions to customer service that we began realizing full benefit of the improvements within five years."

Other additions are a new grain receiving area, a new electrical system, the mill's second unit has been converted to convey product through processing pneumatically and the renovation of the mill's warehouse.

An advanced environmental system was instalted in the mill to maintain temperature controlled, dust-free air in the mill's processing area. As a means of energy conservation, heated air is filtered and mixed with fresh air before being recirculated through the plant. There is also a new service area for employees.

Superior Mill Largest

The Superior mill is now the largest of Peavey's three durum millsothers are in Hastings, Minnesota and Buffalo, New York-and represents the fifth major modernization program in recent years.

Heffelfinger noted that the Group's ability to maintain the highest standards of product quality and sample testing is enhanced by Peavey's mod-ern durum lab, "which is also avail-able to our customers for testing and new product development," he said.

Peavey's sixth and most extensive rebuilding program is currently under way at its mill in Hastings. During operating area of the Company." this three-year \$15 million effort, now in its second year, production and efficient customer service continue un- and Retail Groups had significant interrupted. The project involves a creases in both sales and earning new mill containing one whole-wheat, one rye and two hard wheat flour production units. All new milling equipment will be installed, increasing wheat flour production to a total daily capacity of 13,000 hundred-

"The substantial capital improvement program in the Industrial Foods Group is a demonstration of our commitment to continue high product quality and service," stated Peavey President and Chief Executive Officer William Stocks. "We view the domes-"The Superior mill," said Mark tic and the worldwide flour markets rent sales and earnings patterns to the Heffelfinger, Industrial Foods Group as strong and relatively stable and we continue. While the Industrial Foods

grading of our flour milling facilities will serve our growth interests and the interests of our customers," he

Stocks also noted Peavey's Industrial Foods Group earnings achieved the second highest earnings in the Group's history in fiscal 1977. In addition, in the year closed July 31, 1977, Peavey specialty retailing and consumer foods activities continued their rapid expansion and again reported record earnings. Total company earnings for the year were \$13.2 million on sales of more than \$494 million.

Peavey Announces 2nd Quarter. First Half Earnings

Peavey Company announced net earnings for the second quarter ended January 31, of \$2,917,000 or 50 cents per share on sales of \$123,437,000. This compares with net earnings of \$2,536,000 or 43 cents per share on sales of \$115,248,000 for the sec-

ond quarter a year ago.

Net earnings for the first six months
were \$6,411,000 or \$1.10 per share on
sales of \$249,928,000. This compares with net earnings of \$5,972,000 or \$1.03 per share on sales of \$249,209, 000 for the same period a year ago.

"Earnings were aided by a lower income tax as a result of higher investment tax credits," Peavey President and Chief Executive Office William G. Stocks said. "As the same time," he added, "severe winter weather throughout most of the cou-

Stocks indicated that for the fir six months, Peavey's Consumer Food Peavey's Agricultural Group returns to profitability for the first half export markets for grain continued

Though flour volume increased, I dustrial Foods Group sales were down 13 percent as lower wheat prices were reflected in lower flour prices. Earnings for this group were down sharply from the excellent levels of a year ago because of reduced margins.

Commenting on the remainder the year, Stocks said he expects cur-

(Continued on page 48)

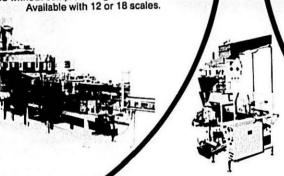
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Peavey Company Report

(Continued from page 46)

Group will have difficulty matching the earnings of a year ago, the Con-sumer Foods, Retail and Agricultural Groups should be improved over the second half of last year.

Quarterly Durum Report

According to the Crop Reporting Board's Annual Summary, durum wheat production in 1977 totaled 80 million bushels, 41 percent less than last year's record high of 135 million bushels. The 1977 national average yield of 20.4 bushels per harvested acre was 3 bushels less than last year. In the traditional northern durum producing States, the average yield of 24.6 bushels compares with 24.8 bushels in 1976. Seeding of durum wheat got off to an early start, and farmers in South Dakota planted about 90 percent of the acreage by May 1. North Dakota growers were nearing completion of seeding by June 1, well ahead of average. The crop made good growing during June in the northern States with development averaging one to two weeks ahead of normal. Good progress in harvesting was made in early August. However, cool, damp weather set in about mid-August, causing delays in combining and some sprouting in windrowed grain.

Stocks: Durum wheat stocks on January 1, 1978 amounted to 110 million bushels, 14 percent less than last year's 128 million bushels. Onfarm durum stocks totaled 82 million bushels, 75 percent of the total durum stocks. Off-farm storage of durum amounted to 28 million bushels. Disappearance of durum wheat during the October-December quarter totaled 30.1 million bushels compared with 22.5 million bushels a year earlier.

Exports: U.S. exports of durum wheat during the June-December period totaled 38.3 million bushels, which increased 8.9 million in comparison to the previous year.

Canadian Situation: Acreage of durum wheat in the Prairie Provinces in 1977 decreased 1.8 million acres compared to 3.5 million seeded in 1976. Yields were down estimated at 26.1 bushels per acre compared to 30.0 bushels per acre in 1976. The November estimate of last year's crop was 46.9 million bushels compared with 105,0 million in 1976. The visible . Included in Winter Wheat prior to 1976.

supply of Canadian durum on January 4, 1978 amounted to 24.0 million bushels compared to 25.2 million million bushels the same week last year. Canadian exports of durum wheat June-December 1977 totaled 58.4 million bushels. Algeria, Italy and Russia were the largest importers, taking 52.3 million bushels.

Wheat Agreement **Negotiations Begin**

Representatives of wheat importing and exporting countries gathered in Geneva, Switzerland, to begin negotiations for a new international wheat agreement. The negotiators are faced with the monumental task of achieving international cooperation in the trade of wheat. Key issues, include pricing provisions, provisions for reserve stocks development and management, and production and consumption adjustments to maintain stability in the world wheat market. Another controversial issue is the possibility of including feed grains in the agreement. The first few days of the conference will be basically planning and organization but it is ex-

Planting Intentions: As of January 1, 1978, acreage was indicated at 4.2 spring and durum wheat progra million acres, down 1 million. Growers in the Southwest showed a slight increase in planting.

pected that it will not take long fore the lines of debate over th crucial issues are drawn. The Un States is represented by a large d gation numbering over twenty, led Assistant Secretary of Agricult Dale E. Hathaway. Others incl representatives of the U.S. Depart ment of Agriculture, State and Ti ury Departments, The Special Tra Representative, the Congress, government wheat and feed gr producers, producer and trade org izations, and a consumer represe tive. The negotiations are expected last for at least six weeks.

Federal Funding **Cut Protested**

The North Dakota State Wh Commission sent a telegram to US Secretary Bergland and the str Congressional delegation express its extreme disappointment and o from the Administration's FY federal budget request for the gional Hard Red Spring and Du Wheat Quality Laboratory located North Dakota State University.

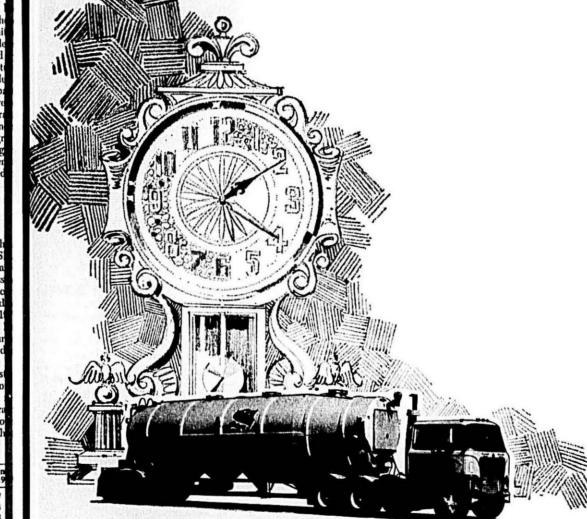
Mel Maier, MDSWC Admini tor, said the funding deletion wo be a tremendous setback to hard which have been in effect for o fifteen years. "North Dakota's wh

(Continued on page 52)

Acres 1976	1977	Indicated 1978	Percen 1978/19
325	89	95	107
90	30	85	283
95	85	92	108
300	230		130
3,710	2,600		135
210	145	The second secon	69
4,748**	3,183	4,172	131.
	325 90 95 300 3,710 210	325 89 90 30 95 85 300 230 3,710 2,600 210 145	Acres 1976 1977 1978 325 89 95 90 30 85 95 85 92 300 230 300 3,710 2,600 3,500 210 145 100

DURUM WHEAT-Statistical Reporting Service, U.S.D.A.

State	Area H	larvested	Indi- cated 1977	Yield 1975	55M (177)	Indi- cated 1977	Produ	iction 1976	Indi- cated
Traditional	1	,000 Ac	res	W. Selle	Bushel		A Little Burk	000 Bush	-
Minnesota	87	93	82	32.5	29.5	34.5	2,828	2,744	2,82
Montana	375	295	220	27.0	29.0	22.0	10,125	8,555	4,84
No. Dakota	3,960	3,620	2,470	26.5	25.0	24.5	104,940	90,500	60,51
So. Dakota	243	160	136	18.0	10.0	24.0	4,374	1,600	3,26
Nontraditiona	1								946694
Arizona*		319	85		75.0	72.0		23,925	6,12
California	15	80	28	73.0		75.0	1,095	6,400	2,10
New Mexico*		17	4			74.0	A SHANNING	1,190	29
U.S.	4,680	4,584	3,025	264	29.4		123,362	134,914	79,96



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Aseeco is an Acronym for Automated Systems

mated systems concepts for the food industry, Aseeco Corporation feels that it has shared in the development of this industry to where it is the most advanced in automation in the world.

Such a feeling is rightfully justified for it has been Aseeco's creed for over two decades that a product no matter how well and economically made today can be made better and more economically through automation.

Aseeco is an acronym for Automated Systems and Equipment Engi-

The Aseeco Corporation is comprised of an integrated team of highly competent technical professionals who devote all of their time and efforts to the development, design, fabrication and sale on an international scope completely automated integrated process systems for widely diversified food industries.

Aseeco Represented Internationally

Operating out of their Beverly Hills Headquarters, Aseeco maintains representation, not only throughout the United States, but also internationally, with representation in Canada, the United Kingdom, France, Australia, Japan, New Zealand, Iran, Switzerland, and Venezuela.

The Aseeco Corporation's endeavor is primarily that of an engineering company which designs, manufactures and erects automated integrated process systems. The standard product line is comprised of Aseeco overlapping bucket elevators, sanitary volved. belt conveyors, vibrating conveyors, select-o-matic bin storage systems for free flowing materials, accumaveyors which are moving belt storage systems for non-free flowing materials, can and bottle conveyors, modu/tran vibratory distribution systems, automatic continuous blending systems, dehydrators and dryers.

The Aseeco Corporation is actively engaged in providing systems both process and bulk materials handling for the following diverse food production facilities; frozen french fry plants, potato chip and snack food plants, potato processors (dehydrated), the macaroni and noodle industry, the overlapping bucket lifts and feed-onut industry encompassing peanuts, meters, which proportion the product pecans, almonds, walnuts, pistachio in the proper ratios as required,

Through its efforts in the engineer-ing and development of auto-and chocolate manufacturers, cookie and biscuit bakers, pet food manufacturers, both dry and semi-moist, cereal manufacturers, pizza pie manufacturers, sugar refineries, to name but a few.

> Many of the above are marketed as individual pieces of equipment and the client can adapt them to his line or process. However, Aseeco also will contract the complete design of a modern functional automated process system, wherein Aseeco will interface the above pieces of equipment together with other equipment to accomplish a complete process function efficiently and economically, When Aseeco is commissioned to perform an entire project, the services which Aseeco offers are plant engineering, layout and mechanical, electrical engineering and control panel design, machinery selection and procurement, evaluation of sub-contracts and bids, site selection and construction supervision, erection and installation of machinery, plant start-up and final adjustment, training of operating and maintenance personnel, plus service

Pioneered Techniques for Automation

The Aseeco Corporation has evolved over the last twenty years, techniques, not only for mechaniza-tion, but also pioneered techniques for automation to keep pace with the changes in technology as they are applied to the various facets of the food industry in which Aseeco is in-

The prerequisites of most auto-mated production facilities for the production of food products can be analyzed as four basic functions. They are raw materials storage, processing, bulk storage and distribution to packaging with subsequent warehousing.

Aseeco vibratory conveyors and overlapping bucket lifts play an important role in moving raw materials which are friable and easily damaged to raw materials storage in a gentle manner without product degradation. Withdrawal from storage to processing is being accomplished on Aseeco belt conveyors, vibrating conveyors, Packaging Married to Production

An area of special expertise of the Aseeco Corporation is bulk storage and distribution of processed product to the packaging machines. In a properly automated plant, storage of bulk product has to be considered so that packaging capability can be married to production. Programming has to be developed and storage capacility introduced to bridge the gap between

production and packaging machinery.

The delivery of product to packaging machines is very important. typical installation will involve capital expenditure of thousands and thousands of dollars for multiples of sophisticated packaging machines but how much attention is paid to the means of feeding them. The most advanced packaging machines cannot perform in a satisfactory manner unless a proper feed is maintained Proper feed criteria can be defined as the following abilities:

- A. The ability to feed the infeed hoppers upon demand.
- B. The ability to feed different ma chines at different rates from one material stream or product.
- C. The ability to ensure that all pack aging machines receive produc without starvation.
- D. The ability to eliminate produc recirculation caused by overfeed
- E. The ability to keep product re gradation to a min
- F. The ability of flexibility to quick! and directly switch from one pred uct to another.

Aseeco had evolved designs which fulfill the above criteria and abilities to product a properly functioned molern facility.

For the bulk storage of non-fiflowing products such as noodles and speciality cut pasta, the accumaveyor was developed. This unique bulk storage system comprised of an en belt with an automated infeed device which can trace the peak of loading which ensures first-in first-out product flow on a continual basis ridging the gap between the process ing rate and the packaging rate.

For free flowing products, Aseeco developed the select-o-matic bin storage system for automatic storage

(Continued on page 52)

THE MACARONI JOURNAL

ASEECO **BIN STORAGE** A fully automatic bin storage system for free flowing materials—Product is conveyed from processing into the Aseeco Bin Storage System by means of conveyors. The operator can fill any bin by operating a selector switch at floor level. In a few hours, when the bin is full and a signal is actuated, the next bin can be selected manually or automatically. Material is discharged from bins on de-

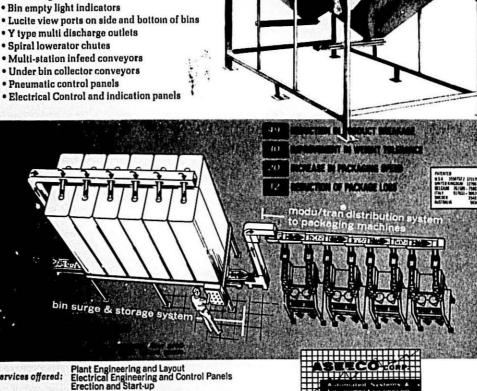
mand from packaging or processing ma-chines. Automatic discharge gates at bottom of bins control material flow into belt or Vibra-Conveyors.

Bins are available in sanitary construction with bolt

or weld on support structures. Optional equipment provides for a complete automated storage system for surge storage or overnight storage.

OPTIONAL EQUIPMENT:

- Bin Full Signal System • Bin Empty Signal System
- Bin full light indicators



Write for your nearest representative.

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Aseeco Systems

(Continued from page 50)

and withdrawal on demand. This system is comprised of a series of multiple bins with high and low level controls with special infeed conveyors and control logic which automatically can shift from one bin to another when the bins are topped with prod-uct. Withdrawal works on the same ardized," Maier said and added that basis, that the withdrawal arrangement is performed automatically initiated by the state's wheat prowhen one bin is emptied and another ducers would also suffer. bin is then brought on-stream without any monitoring from operators.

The modu/tran distribution system was developed by Aseeco for the over \$750,000 worth of milling and simultaneous conveying and distri-bution of product on demand to mul-that taxpayers in North Dakota and tiple packaging machines. This sys- other Northcentral states would have tem is unique in that it has the foot the bill to re-equip the profollowing advantages: Instantaneous gram at its present level. He pointed delivery eliminates starvation which improves production rates in packag- and Technology Department also ing machine net weights. The system utilizes the jeopardized equipment eliminates recirculation which causes and facilities in the department's product degradation. Product is delivered on a true first-in first-out basis which ensures fresh quality. The system can feed multiple discharge stations with diverse charge requirements. Any number of discharge stations can be shut down without affecting the remaining stations in the system. The system is modular in concept in that it can be easily extended by the future addition of modules to serve additional capacity requirements.

The foregoing proprietary innova-tions together with Aseeco overlapping bucket lifts, belt conveyors, vibrators and scalping screens, engineered as complete systems concepts with an inherent logic electrical con-trol console have all played an important part in automa

Lower Costs

The utilization of these automated systems have reduced the production costs of ford products significantly by the elimination of manual labor, reduced losses caused by spillage, reduced give-a-way of product because of proper feed system to packaging that cheese sales tonnage showed a machinery is maintaining net weights, reduce waste of packaging materials and increases the efficiency of packaging machinery and production ma-

primitive and modern automated ma- markets which had been unprofitable,

terials handling methods is convincing proof that automated systems are playing a leading role in maintaining our present standard of living.

Cut Protested

(Continued from page 48)

quality maintenance and improvewheat market development programs

Dr. William Shuey, head of the regional laboratory, noted that the laboratory closing would mean that out that the NDSU Cereal Chemistry wheat quality testing work.

In its telegram the NDSWC urged a strong effort to help reinstate funding for "continued operation of this most essential wheat quality laboratory." The NDSWC noted that it is contacting producer groups and the private food stuff industry to line up additional support for reinstatement of the funding for the regional lab-

Net earnings of Kraft Inc. in the fourth quarter and fiscal year ended Dec. 31 increased 13% and 14%, respectively, over the prior year. Net per share in the year was up 13% from a year ago and in the fourth quarter was up 14%.

Margins Improved

William O. Beers, chairman, said the improvement reflected "improved margins, a substantial recovery in the international division and a lower effective income tax rate." He said slight increase, while volume gained from margarine, salad dressing, citrus products, prepared dinners, confections and specialty chemicals. He said profits were helped by the company's An unbiased comparison between withdrawals from certain fluid milk

Campbell Soup's Sales And Earnings Rise

Campbell Soup Company's sa and earnings rose in the Company 1978 fiscal second quarter and fir half ended January 29, Harold Shaub, President, reported.

Consolidated sales in the secon quarter amounted to \$517,471,000, for an increase of 6% over second-quarte sales last year of \$489,234,000. No earnings for the quarter reache \$34,267,000, compared with \$31,220 000 in the quarter last year, Earning per share increased by 9% to \$1.05 from 96 cents per share in last year quarter.

Sales for the six-month period totaled \$964,216,000, for an increase of 4% over sales of \$928,585,000 in th same period last year. Earnings for the first half were \$61,252,000, compared with \$55,471,000 in the half last year. Earnings per share for the six months increased by 10% to \$1.87 from \$1.70 per share.

Unit sales of the Company's proucts in the second quarter were vi tually even with a year ago, with th product sales mix and price adjust ments accounting for the gain in sal dollars, Mr. Shaub said.

Severe winter weather across m of the United States in recent week has created disruptions in distribution of products from many of the Con pany's plants, Mr. Shaub said. I'ro duction interruptions have been e perienced in varying degrees at plant located in Arkansas, Connecticut Illinois, Maryland, Nebraska, Ne Jersey, Ohio and Pennslyvania, but significant effect on the Compa financial results for the current fi c year is currently anticipated, he no

Two new Campbell's "Soup fo One" varieties—Burly Veget bl Beef, and Full Flavored Chicket Vegetable-have recently enter national distribution and two Campbell's condensed Soups—Bo Mushroom, and Creamy Chicke Mushroom - are currently bei placed in national distribution.

A new Hanover Trail Restaura will be opened by Campbell's Restau rant Division in March at Harrisburg Pennsylvania, while groundbreaking for an additional Hanover Trail un -the Company's eighth, slated open next August-will take place Reading, Pennsylvania.

In a 1973 survey of the entire pasta industry by an indepen-dent research lirm, 67% of respondents stated that a combination of microwave and

Three-stage dryer, 8' x 27

The pioneering is over! The microwave dryer is standard 24 nourly day equipment for any size macaroni or noodle plant

Up to 4 times the production in the same feet of floor space (a bargain in Itself with construction costs in the \$20 sq. ft. range).

Reduces infestation up to 99.99%. Kills: bacteria, Salmonella, E. Coli, Coliforms, mold, yeast, weavils and eggs.

Most easily sanitized dryer. Hose it down or steam it clean.

Makes a richer looking product; no blanching.

New! Diewasher by Micro-

dry. More compact; 2000 p.s.l. water nozzle pressures.

APRIL, 1978

Energy savings reported: 52% less BTU's, 6% less KW's.

Lowest downtime, "We keep an accurate record of all downtime and express it as a percentage of time down to time scheduled. Microdry leads our list at loss than 2%" — Pit. Mgr., leading mid-west operation.

"All future equipment will be Microdry" - Tech. Dir., large pasta plant.

Units in these lbs./hr. Capacities: 1500, 2500, 3,000 and 4,000.

Operating today at: Golden Grain, San Leandro (2 units); Golden Grain, Chicago (2 units); D'Amico, Chicago; Catelli, Montreal; Gooch, Lincoln; O. B., Ft. Worth; Lipton, Toronto (2 units); Gilster Mary Lee, Chester, III.

Completely fabricated and assembled in our plant. All stainless steel construction. Complete microwave and process control instrumentation systems with the unit - no extras to buy. Personnel generally can learn operation in one day. Continuing consultation privileges with Microdry.



MICRODRY CORPORATION

3111 Fostoria Way, San Ramon, CA 94583

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THE MACARONI JOURNA

Industrial Heating With Microwaves

The accelerating interest in methods of saving energy has spurred in-terest in industrial heating with microwaves. Energy savings from 10% to 583% have been reported by large manufacturers, according to Microdry Corporation, a world leader in this field. Added to this is the possibility of reducing heating time and space requirements as much as 75%, plus some unique benefits such as the almost complete elimination of infestation in organic products.

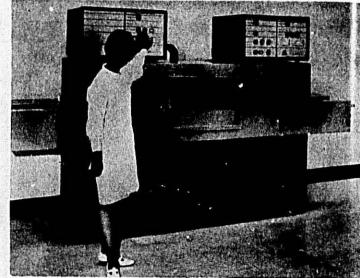
Microdry Corporation have done developmental work for production of many items, and have this information available. They also offer two methods for developing production techniques for other products.

One way is to hire Microdry's fully equipped and staffed service center to test process feasibility. The center has 915 megahertz equipment of various types, i.e., conventional cavity ovens, special ovens for bulk materials, and higher intensity units for thinner materials. They can do hot air pre-heating or drying. The facili-ties also include analytical and testing equipment, such as moisture meters, scales, balances, vacuum ovens and

Second Approach

The second approach is to lease or buy continuous process research- or production-size units from Microdry. The largest research size is a 10 kilowatt, 915 megahertz model, adequate for some production lines. The other research sizes are 2450 megahertz models in 21/2 KW and 5 KW sizes. All are said to provide completely safe operation that is interlocked and monitored. A wide range of conveyor speeds is offered and end-of-belt handling is not required. The complete electrical hot air systems have automatic regulation (steam is optional in the larger unit). Side door allows testing of large samples. Tunnels are of stainless steel. Power is adjustable from 0 to maximum. Prices, F.O.B. San Ramon, California, are \$30,000 for the 21/2 KW, \$34,000 for the 5 KW and \$65,000 for the 10 KW, 90 day delivery.

The units usually can be installed, tested and complete instruction given to operating personnel within two days, claims Microdry. Service de-



shooting and to help solve technical

For more information, write Microdry Corporation, 3111 Fostoria Way, San Ramon, California 94583.

Cut OSHA Rules

The U.S. Labor Department has announced it plans to scrap some 1,100 regulations promulgated under the controversial Occupational Safety and Health Administration.

Eula Bingham, head of OSHA, proudly declared that the action marked the first time in history that a federal bureaucracy had decreased

partment help is available for trouble- rather than increased the number rules it enforced.

The rule cancelling came after t agency was severely criticized establishing dozens of "Micke Mouse" regulations.

Approximately 62 million worke

are affected by the job-related safe and health regulations promulgate by OSHA. In addition, five mill employers are covered under

U.S. Labor Secretary Ray Marsh said most of the rules being wi drawn had no effect on the safety the workers.

The public will have 90 days comment on the proposed reduct in departmental rules.

TAXPAYER'S LIABILITY INDEX (prepared by)

National Taxpavers Union, 325 F

Debt or Liability Item	Gross Cost	Your Share	
Public Debt	\$ 701,000,000,000,00	\$ 14,020.00	
Accounts Payable	\$ 81,000,000,000.00	\$ 1,620,00	
Undelivered Orders	\$ 266,000,000,000.00	\$ 5,320.00	
Long Term Contracts	\$ 13,000,000,000.00	\$ 260,00	
Government Guarantees	\$ 190,000,000,000.00	\$ 3,800.00	
Insurance Commitments	\$1,629,000,000,000.00	\$ 32,580.00	
Annuity Programs (Including Social Security)	\$4,650,000,000,000.00	\$ 93,000.00	
Unadjudicated Claims and International Commitments	\$ 53,000,000,000.00	\$ 1,060.00	
TOTAL	\$7,583,000,000,000.00	\$151,660.00	

Skinner Promotions

Richard Lorimer has been named National Sales Manager and William . Henry has been named Director/ Marketing & Sales Services of the Skinner Macaroni Company in Omaha, Nebraska,

Lorimer has been with Shinner for ine years and was National Field Sales Manager prior to his promotion.

Henry was Manager/Marketing Services before his elevation. He has been with Skinner Macaroni for two

The responsibilities of Lorimer's new position are the administration and management of the Skinner Sales Department, including the Skinner sales force and food broker network.

Henry is responsible for company advertising, sales promotion, marketing research and related activities.

San Giorgio Sales Manager

John Schultz, of Briarcrest Gardens, Hershey, has been named sales manager of San Giorgio Macaroni, Inc., a Hershey Foods company. The appointment, effective February 13, was announced by Joseph P. Viviano, president of the Lebanon-based pasta nanufacturer.

Schultz most recently served as field sales manager, and prior to that was Philadelphia district manager. He oined San Giorgio in 1969.

In his new position Schultz will be esponsible for direction of all San Giorgio brand and Delmonico brand pasta sales.

He is married to the former Rosemary Dirken and they have two chil-

San Giorgio, one of the country's eading pasta producers, has plants in Lebanon and Louisville, Kentucky, where the company's Delmonico division is located.

Wright Named

John Wright, Edmore, North Dakota, a past president of the U.S. Durum Growers Association, was one of five wheat farmers in the country to be named to the Board of the Wheat Food Foundation, a national organization formed to promote the usage of wheat and wheat food products. Created by the Department of Agriculture Act of 1976, the Foundation will become operative when ratified by end-product processors some time in the near future.

The state of the s



New Dough Skin Processor

Clermont Food Machine Co., Brooklyn, N.Y. announces their Dough Skin Processor which produces up to 600 round dough skins, 4" to 9" in diameter, per hour. The dough skins which are used for

Manicotti, Crepe Suzettes, Blintzes, Egg Rolls, etc., may also be produced in squares and other shapes by simply changing the dough discs. Thickness of the dough skins is controlled by the consistancy of the dough mix.

The Processor operates automatically and requires only one operator to monitor the production run.

Descriptive color brochure and engineering data sheets available on request from the manufacturer: Clermont Food Machine Co., 280 Wallabout St., Brooklyn, N.Y. 11206

Jacobs-Winston Laboratories Move

Jacobs-Winston Food Laboratories, a leading food analysis firm, has moved into a 12,000 square-foot facility on Mount Vernon Street in Ridgefield Park, New Jersey after operating for nearly sixty years in New York City.

The firm conducts chemical and bacteriological examinations and said the move to New Jersey was partly necessitated by the need for a facility equipped with new, extremely sensitive and sophisticated equipment.

"Also the proximity to Rutgers University offered an advantage since our staff is always updating its training, particularly at the University's finfood science department," the firm added.

74th NMMA Annual Meeting July 9-13, 1978 Del Coronado

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ADVERTISING RATES

...\$1,00 per line Minimum \$3.00

WANTED Manager with shift supervisory experience plus expertise in macaroni drying. Good opportunity to become plant manager. V/rite P.O. Box 336, Palatine, IL. 60067.

QUALITY PASTA PRODUCER

Will manufacture and package to your specifications noodles and macaroni under your label. Excellent location assures economical access to all major Midwest markets. Further details by writing Box 336, Macaroni Journal, Palatine, IL 60067.

KLUSKI NOODLES

Manufactured and packaged to your specifi-cations. Bulk to 330 lbs., poly or cello bags 8-12-16 ox. Modern plant near all major Midwest markets. Let our expertise expand old and open new markets for your product line. Reply to Box 336 in care of this maga-

FOR SALE—Clermont Noodle Cutter, 5'x 7'x 7', high speed/Reeves Vari-drive/5 HP motor double calibration. Five noodle widths, Excellent condition.

Hydraulic Tote Bin Dumper, 2500 lb. capacity, class 2-GPG/explosition proof motor and controls. Excellent condition. Call or write A. G. Defelice, U.S. Macaroni Co., Spokane, WA 99202, (509) 747-2085.

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Buyers' Guide Listing

COLUMBIA LABORATORIES. INC., P.O. Box 40, Corbett, Oregon 97019. Provides fast, reliable and low cost analysis of semolina, macaroni and other foods: protein, ash, moisture; vitamins; bacteria and molds; cooking test; taste panels; and pesticides. Request a complete schedule of services today. Telephone: (503) 375-2287. See Classified Advertising.

PACKAGING SUPPLIES

FAUST PACKAGING CORPORA-TION, 145 Oval Drive, Central Islip, N.Y. 11722. Creators and manufacturers of multi-color cartons and promotional material for macaroninoodle products and frozen foods.

PARAMOUNT PACKAGING COR-PORATION, Box 97, Oak Avenue, Chalfont, Pennsylvania 18914. Manufacturer of flexible packaging material especially designed for the spaghetti and macaroni industry. Proven laminations that resist puncturing. For additional information contact: Edward A. Morse, Marketing Manager.



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We've been going together for nearly 50 years.

amound pack as so as dispasta make per labels to point of purchase displays. You stipartor in the per perform above operaward winning package design. Service

i prompt delivery's dependable.

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Diamond International Corporation Packaging Products Division

