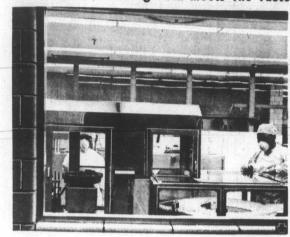
## There's More In A Drug Than Meets The Taste



Packaging freeze-dried injectable drugs under sterile conditions. Germans and Mexicans want their medicines flavored with orange; Norwegians prefer anise

Choosing the best flavor to mask any unpleasant taste is only one of the myriad problems the drug development scientist must resolve before a new product reaches the pharmacist's

A major concern: That the A major concern: That the drug will be at full potency when the patient takes it and that it will work as well as the maker claims. The lengths to which drug manufacturers go to achieve this goal are spelled out in a new book, "Ingredient X".

Drug designers rarely achieve an ideal product. They may, for example, accept a some-what shorter shelf life in order to get a better taste, or vice versil, says the author, Dr. L. C. Schroeter of the Up-john Company. Kalamazoo.

Safety is the one factor which is never compromised. Of course, there's no absolutely safe drug. Overdosing or prolonged use without a doctor's supervision may have serious effects.

Schroeter uses the blanket term "Ingredient X" to de-scribe all of the so-called "in-ert" ingredients — flavorings, preservatives, dyes and the

Each of these components

as well as the drug itself are checked for safety in extensive tests with laboratory animals Here are some examples of pharmaceutical know-how cited in the book:

1. Two incompatible drugs can be combined in the same tablet if they're separated by an inert layer.

2. Adding a wetting agent may improve drug absorption so much that the dose can be

3. Liquid drugs sensitive to light are protected by dyes whose colors absorb the wave lengths of light. 4. Even the bottle cap is checked for safety.

Schroeter sums up the exacting requirements: "The standards designed into the product must be maintained. The dosage form must maintain its full potency under normal interests." mal storage conditions for the period of time indicated by the expiration dating. The product must also maintain the same consumer appeal as when it was first made." Graduate To Sunvogues



Commencement time is here again, a happy occasion for many to think about a "little something" gift. Why not make that little something a pair of prescription-quality sunglasses? This gift suggestion comes from American Optical Corporation, maker of Sunvogues, distinctive sunglasses that absorb potentially harmful and discomforting ultraviolet and infrared

#### Charges Discrimination in Covington, La.

NEW ORLEANS, La. -Federal Judge Frederick R. Hebe has taken under advisement the charges of alleged discrimination against Negro students in the small town of Covington, La., just across the lake from New Orleans. One of the charges is that the Confederate flag is displayed in the principal's office and used in the lead of all parades.

They contend that this flag is the symbol of Negro slavery and discrimination. The Negroes also claim that Negro students are kept out of most activities of the schoo.

Another school in new Orleans, Nichols high school, has used the Confederate flag as their parade emblem and they clothe their band in Confederate soldier uniforms. On

## Conference for Democratic Candidates Set

BOONE - State YDC President Robert Bingham has announced plans for the first Campaign Conference ever organized for North Carolina's Democratic Party candidates.

Bingham said the YDCsponsored event will be held in Raleigh on Monday, July 13 at the Sir Walter-Sheraton Hotel. Working sessions will be held for State Senate and House nominees, county chairmen, YDC county presidents Democratic Women presidents and Teen Dem presidents.

Seminars will be held throughout the day on campaign management, money-raising programs, publicity and issues. Tentative arrangements call for a dinner to climax the day-long program with a nationally known speaker.

Co-chairmen for the conference will be Kenneth R. Babb, Winston-Salem attorney and Fifth District YDC president, and George Mast, an attorney from Smithfield, it was

"This conference reflects the determination of the State YDC to move from prestige politics to power politics," Bingham advised.

several occasions Negro boys have had to carry this flag in

With this demonstration

the self-propelled combine earned its reputation as a revolution in the harvest field.

The American farmer learned

of the combine first hand as

the "Harvest Brigade" rolled

across the nation. Shortly

after the war, American agri-

culture adopted the combine

As the farmer recognized

the potential of the machine

in harvesting many different

crops major farm machinery

companies began mass pro-lucing them. With combines

produced in modern plants, ike the New Holland plant

here in the heart of the wheat belt, grain farmers and custom

operators from around the world are bringing a harvest

Armies of custom operators

trek across the western United

States each year taking in the

grain harvest. For a fee, these

men will guide their giant

metal machines through farm-

ers' fields harvesting their

grain crops. Each season thouands of custom combines fol-

of phenomenal proportions.

as a primary tool.

WIN TOP HONORS - Winners (left). The winners were (left | W. Levesiter, Jr., Thomas to right) James D. Cooper, J. Brown and Michael Hough.

of the top awards in the army ROTC program at A&T State University are congratulated by the unit's commanding officer, Lt. Col. William Graves

# Professor of **A&T University**

GREENSBORO - Mrs. Ev Moore, an assistant professor in home economics education at A & T State University, has been awarded a \$3,500 doctoral fellowship to the University of North Carolina at Greensboro.

Mrs. Moore will pursue her doctorate in home economics education in the School of Home Economics at UNC-G beginning in September.

Dr. Naomi Albanese, dean of the School of Home Economics, noted that the doctoral fellowship awarded to Mrs. Moore has been made possible through a grant by General Foods has provided the doctoral fellowship at UNC-G.

Mrs. Moore has been a member of the A & T faculty since 1967. She received her bachelor of science degree in home economics from West Virginia State College, and obtained her master of science degree from the University of Illinois, where she also has served as a research assistant. She has taught at Delaware State College, and also served as head of the home economics department there. In addition, she has taught in the city schools in Orangeburg.

She is a member of several professional organizations, including the American Home Economics Assn., North Carolina Home Economics Assn., American Vocational Assn.



Bank of America Trav elers Cheques has introduced a commemorative package for its customers in Japan in the form of a souvenir Expo 70 certificate. The specially - designed, four - color document shown by model Koko K. Luersen will be part of the bank's regular travelers cheques applications and will be available in Japan through Japanese bank sellers of the cheques during the Exposition in Osaka, San Francisco's sister city

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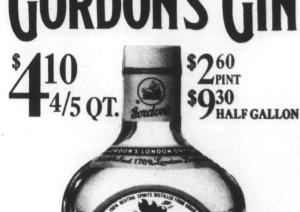
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# GORDON'S GIN





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# THE COMBINE-Farming's Miracle Machine

GRAND ISLAND, NEB .-Each year there are more mouths to feed and fewer farmers to feed them than the year before. As the world population continues to skyrocket the farm population is dwindling. Research into new foods moves ahead, but the old staples of life, wheat, corn and rice, have to be planted and harvested on hundreds of thousands of acres.

As an example, the world's farmers plant enough wheat to twice cover the entire land area of the state of California. The harvest of such fantastic crops is a constant challenge of modern agriculture—a challenge that farmers are answer ing with a "miracle machine".
That miracle harvesting

machine is the self-propelled combine. It has taken up the slack of the harvest time labor shortage. Without it man could not harvest enough food to feed himself. He depends oats, rice, soybeans, grain sorghum, rye, flax, peas, clover, alfalfa, timothy, millet, dry beans, and even his cotton.

parated from the stalk be--combine.

Although relatively costly at the giant combine plant of New Holland, the farm machinery division of Sperry Rand, estimate that one combine-harvester gives a farmer the controlled efficiency of the labors of 300 men in the grain

### The Toil of Harvest

The combine although revolutionary in effect, is the end product of an evolutionary struggle between man and the toil of the harvest. The first capacity. The work of six men could now be done by one man and a team of horses.

And, hand harvesting tied men to the land in subsistence agriculture for thousands of years.

Love the fore recorded his.

Long before recorded history, primitive farmers, in what is now Switzerland were harvesting wheat. They used stone sickles and a grueling four or five hours of labor pro duced but one bushel of grain These, and other simple hand tools were still the order of the day deep into historic times.

However, the concept of machine harvesting appeared much before one would be-lieve. Pliny, the Roman historian, wrote during the first century A.D. that the people of Gaul harvested their grain with a box mounted on wheels that had knives set, like lances out front. The box was pushed into a field by oxen, and the ears of grain were caught between the knives and sheared

off, to fall into the box. A low relief sculpture in stone, depicting this combine prototype, was recently un-earthed in what is now Belgium. Using the relief as a blueprint, engineers at a New Holland combine plant in Zedelgem built a replica of the Gaulish device and operated it in Belgian grain with sur-prising success. Although a



on this one invention to harvest his corn, wheat, barley, ations called for a team of 15 men and as many as 40 horses or mules. Today's combine ations called for a team of 15 men and as many as 40 horses or mules. Today's combine replaces the hand labors of about 300 men using antiquated harvesting methods.

fore it can be sold. This mir- all harvesting machines, the acle machine combines these two processes, hence the McCormick reaper revolutionized agriculture by cutting -price tags read from \$12,000 harvest labor time in half. A to \$20,000—giant combines ground wheel supplied the more than pay for themselves power to the sickle-type cutin increased yield and labor ting apparatus of McCormick's savings. In fact, engineers here reaper. A revolving paddle wheel pushed the cut grain onto a delivery platform to be raked to the ground and tied into bundles, or sheaves

#### Double the Harvest

Within the next several decades, the device was refined so that it could bind the sheaves itself. This tool repre-

ous of grain to thresh it

developed. Early threshers, known as and operated by horse power lescence. or turned by hand. Later these were made portable and steam familiar sights on the farm at grain yields.

In the middle of the last century, it occurred to farmers | The impact of the combine on to put the thresher on wheels agriculture was dramatically

the modern grain-crop farmer.
Grain has to be cut and then
In 1834, Cyrus McCormick

the straw. For centuries man shook, beat and walked on century the combine was reground hogs, were stationary driven the reaper into obso-

### The Harvest Brigade Rolls

sented another milestone in agriculture technology. The individual farmer could double, even triple, his harvest midwestern United States, but in the midwestern United States, but million bushels of grain in one place of million bushels of grain in one place of million bushels of grain in one glide through ripened grain.

workable device, this first mathematic chine harvester fell into disuse ing element was threshing. These machines weighed as how the harvest northward from Mexico into Canada in

power was applied. And, even- ternal combustion engine, the powered by steam tractors or modern combines that today gasoline engines, became are so vital in producing high

and join it with the reaper. confirmed during the war like the men he work. With this, the concept of the years. A fleet of combines was have used this one miracle machine to change the shape

A combine, or the use of one, is a virtual necessity to mechanized harvest had to still had to be separated from worked.

A combine, or the use of during the Dark Ages, and the mechanized harvest had to be separated from worked.

A combine, or the use of during the Dark Ages, and the mechanized harvest had to be separated from worked.

tually crude machines were tical size. By the time another tom operator. Headquartered generation took over the country's farms, the combine had Bolsted harvests thousands of caravan includes three New By 1940, with the addition of self-propulsion and the ingrain trucks, a service truck with an inventory of 3,000 tually, all-steel threshers, machine took the shape of parts and two house trailers. To make certain custom operators can keep moving. New Holland has equipped a giant parts service van to move orthward with the harvest.

Custom Operators Today

Custom operators, like Bolsted, and grain producers, government and the famous of the harvest. No longer do ''Harvest Brigade'' was sheaves of grain rest idyllically

