

# Ten March of Dimes Medical Advances Are Listed for Year

Ten March of Dimes-financed projects in birth defects and arthritis have been cited by The National Foundation for outstanding progress in 1963.

"In 1963 the arthritis riddle continued to baffle the experts and despite many informative studies by scientists, no significant breakthroughs concerning cause or prevention were reported," according to Dr. Theodore E. Boyd, the organization's director of scientific research.

"In birth defects research, progress was more promising," he stated. "New light was shed on the genetic code of life, on how a baby develops normally and abnormally in the womb and on the causes of some of the hundreds of defects which affect more than a quarter of a million newborns in the U. S. each year."

Dr. Boyd reported that in 1963 The National Foundation-March of Dimes awarded more than \$3,812,000 for research grants. Dr. William S. Clark, medical director, also called attention to the continued rapid growth of the Foundation's treatment and research center program.

There are now 48 March of Dimes centers for birth defects and 29 for arthritis across the country, he said. Approximately 1,000 National Foundation chapters granted more than \$1,500,000 to finance such centers in 1963.

The list of top ten March of Dimes-financed projects and achievements follows:

**1. Test for Galactosemia.** Development of an accurate blood test to detect both victims and symptom-free carriers of an inherited chemical defect called galactosemia, which causes mental retardation in babies when they drink milk. Test perfected by Dr. Arthur Robinson and associates at the University of Colorado.

**2. Test for Maple Syrup Urine Disease.** Development of a simple blood test to identify infants with an inherited condition named maple syrup urine disease, because of a telltale odor to the urine of its victims. The condition involves abnormalities in body chemistry and generally results in death by the age of two. Test devised by Dr. Joseph Dancis and colleagues at New York University.

**3. Homograft Barrier Cracked?** Apparent cracking of the "homograft barrier," a notable achievement in efforts to make adult animals permanently tolerant to organ transplants and skin grafts, which open the way to solving the problem in man. This potential major breakthrough accomplished by Dr. Robert A. Good and research team at the University of Minnesota.

**4. Clues to How Cells Specialize.** Evidence found to show the existence of chemical messengers between living cells which instruct cells of one kind to change their specific job. Some birth defects may be caused by errors occurring during pregnancy in this cell specialization messenger system. Research conducted by Dr. John Papaconstantinou and others at University of Connecticut.

**5. New Kind of Gene Discovered.** Studies of inner workings of cells revealed new kind of gene (unit of heredity) which controls the putting together of proteins into proper form. This significant research directed by Dr. Robert S. Edgar of the California Institute of Technology.

**6. Viruses and Birth Defects.** Tentative identification of several viruses as causing miscarriage, stillbirths and birth defects when mothers-to-be are infected during pregnancy. These preliminary findings reported by Drs. Gordon C. Brown and Thomas Francis Jr. of the University of Michigan.

**7. Synthesis of Biologically Active DNA.** For the first time the master code-of-life chemical DNA (deoxyribonucleic acid) has been synthesized in the laboratory in a form that is biologically active. This is as close as anyone has come to creating life in the test tube. Achievement by Drs. Rose M. Litman of the University of Colorado and Dr. Waclaw Syzalski of the University of Wisconsin, and their fellow investigators.

**8. New Clue to Birth Defect Cause.** New lead to causes of



Dr. Ralph F. Jacox, who is cited in the accompanying article, talks to a young arthritis patient.

certain birth defects produced in studies of fluid imbalance in chick embryos. Several factors, such as too little oxygen, too much salt, foreign substances, resulted in salt imbalance in the blood, followed by excess accumulation of body fluids and the development of major defects and often the death of the chick. Reported by Dr. Casimer T. Grobowski, University of Miami.

**9. Outbreaks of Spinal Birth Defects.** Three reports made of unusual outbreaks of a serious birth defect involving the spine, two by staffs of March of Dimes birth defects centers. Increased referral centers for birth defects patients and vastly increased concern about the problem considered responsible for spotting these "epidemics" of spina bifida. Reported in Atlanta, Ga., by Birth Defects Center there; Fort Campbell, Ky., by Birth Defects Center in Nashville, Tenn., and in Vermont by Burlington physicians. The outbreaks remain unexplained despite intensive inquiry.

**10. Arthritis Clues in Twin Study.** Strong evidence that emotional stress triggered onset of rheumatoid arthritis was found in a study of five sets of identical twins in which one of each pair had the disease. Reported by Drs. Ralph Jacox and Sanford Meyerowitz of the March of Dimes Arthritis Center, University of Rochester.

## Worry Clinic

(From page 1)

sionary activity, supported by the freewill offerings of generous Christian folks.

Now Uncle Sam tries to usurp the role of the missionary societies of both the

## DRESSING FOR MOLDED FRUIT OR VEGETABLE SALADS

2 tablespoons flour  
2 tablespoons salad oil  
1 teaspoon salt  
1 teaspoon prepared mustard  
1 cup water  
2 eggs, slightly beaten  
6 tablespoons lemon juice  
Mix flour, sugar, salad oil, salt, mustard and water together in the top of a double boiler. Cook over direct heat, stirring constantly, until mixture is smooth and thickened. Stir the eggs into the hot mixture and cook over hot water until thickened, stirring constantly. Remove from heat and stir in lemon juice. Refrigerate. Yields about 1½ cups.

NOTE: If desired, when dressing is served, it may be mixed with whipping cream—one part of whipped cream to two parts of dressing.

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Catholic and Protestant faiths.

But Uncle Sam uses coerced money (taxes), not free will offerings.

There's a whale of a difference.

"The gift without the giver is bare," runs an adage of the past.

If Uncle Sam thus FORCES his citizens to pay high taxes so the bureaucrats can then toss them around worldwide, in the name of purely political foreign aid, where does he surpass atheistic Russia?

For Russia, too, is spending billions in forced taxes trying to bribe allies without any Christian spirit behind its largess.

So Uncle Sam hardly merits any more praise than does Russia, don't you agree, if he uses forced contributions just to bribe nations for purely political purposes?

Church folks should mull this over very carefully;

Unless our churches regain their prerogative of offering foreign aid to downtrodden peoples by freewill missionary offerings, contributed by sympathetic volunteer donors, then our purely political foreign aid falls into much the same class as that of Russia.

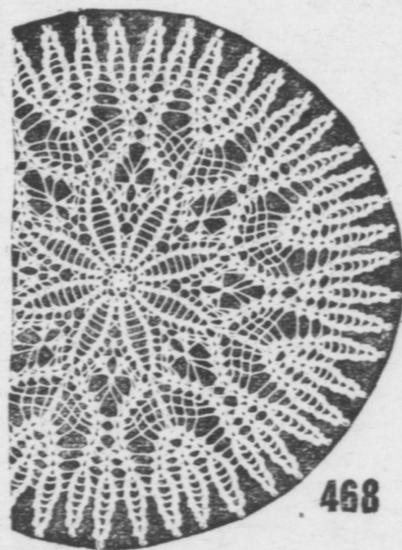
And the United Nations is

a sorry substitute for the Christian churches.

Indeed, the U. N. is composed of many atheistic and communistic nations.

Only 32 of the 104 members of the U. N. even offer habeas corpus and the other stellar rights that we have codified in our famous Constitution.

So 72 of the U. N. members (a great majority) believe in Hitler's dictator policy regarding citizens. For they let them be dungeoned without access to an attorney.



This 16-inch doily is not difficult to crochet, yet it has an intricate design that will prove a joy to its owner, whether she makes it or receives it as a gift. Send for No. 468.

Our new 1964 Needlework Book contains a fine selection of crochet, knit, embroidery, quilts, etc., and includes instructions for four designs and also coupon entitling you to any pattern of your choice, free. Send 50 cents.

Send 25c plus 5c postage in coins for this pattern to MARTHA MADISON (care of this newspaper), Box 1490, New York 1, N. Y. Add 15c for first class mail.

ey. So the U. N. is actually run by a majority that subscribe to ruthless politics almost as bad as those of Hitler.

It is thus high time that all churches joined in demanding that Uncle Sam quit competing with church freewill missionary activities.

So send for my booklet "How to Save This Republic" enclosing a stamped return envelope, plus 20c. Otherwise, churches may soon be

taxed, too.

(Always write to Dr. Crane in care of this newspaper, enclosing a long 5c stamped addressed envelope and 20c to cover typing and printing costs when you send for one of his booklets.)

**FILL IT! SEAL IT! MAIL IT! YOUR MARCH OF DIMES-DOLLARS CONTRIBUTION MAILER.**

## PUBLIC AUCTION

—OF—

Farm Equipment - Hogs - Chickens

**MONDAY, MAR. 2, 1964**

AT 11:00 A. M. SHARP

Located in Manor Twp., Lanc. Co. 3½ miles west of Millersville, Pa., on route 999.

**JOHN DEERE 50 TRACTOR**  
with 2 bottom 14 in. mounted plow & heat houser.

**FARMALL SUPER C TRACTOR**  
with cultivator, tool bar, Mc fast hitch 7 ft. mower, tobacco hoer & sprayer.

**FORD JUBILEE TRACTOR**  
with Sauder loader & chains.

New Holland P.T.O. Manure spreader, Hershey transplanter, John Deere 3 section spring harrow, like new; John Deere 28 disc harrow like new, McDeering 2-row mounted corn planter, Lety P.T.O. plate mill, good shape; four 20 ft. tobacco ladders, one 24 ft. ladder on David Bradley running gear; Grove 6-ton wagon with 18 ft. bed, John Deere 6-ton wagon with 16 ft. bed, 4 other wagons, McDeering 13 disc grain drill, fertilizer drill, Papec 14 in. cutter, Muchley 24 ft. elevator with motor, side rake, Brilliant 10 ft. cultipacker, cyclone electric seeder, Minnick tobacco presses, tobacco laths, shears, wheelbarrows, platform scales, feed cart, hog troughs, feeders, weed chopper, fence chargers.

**POULTRY EQUIPMENT:** Feeders, nests, fountains, roosts, egg baskets, 220 Keenco washer, shell hoppers, egg sprayer, snow fence, galvanized pipe, six ton bulk bin and pipe.

**4 Range Shelters, 2 Good Brooder Houses**  
**2500 Laying Hens — 35 Ton Ear Corn**

Lots of Hay by the ton. Some household goods, chairs, tools, etc.

Sale by

**Willis H. Geib**

J. OMAR LANDIS, AUCT.  
Food Service at Sale.

## Public Auction

—OF—

Farm Equipment and Household Goods

**SAT., FEB. 29, 1964**

AT 12:00 NOON

Located between Letori and Safe Harbor, Lancaster County, Pa.

**FORD JUBILEE TRACTOR**, cultivator & hoers.  
**JOHN DEERE B. TRACTOR**  
**FARMALL B. N.**, cultivators & hoers.

3-point hitch, disk harrow, 2 bottom trailer plow, disc and spring harrow, Stauffer 2-row transplanter, Massey Harris 4-bar rake, New Idea elevator - 30 ft.; New Holland baler No. 66, Sauder loader for Ford, David Bradley manure spreader, two 22-ft. tobacco ladders, one 20-ft. ladder, 16 ft. flat bed wagon, 7 ft. David Bradley mower, fertilizer drill, roller, tobacco lath, 2 Minnick presses, platform scales, stripping room stove, 50 ft. endless belt, Ford pulley, grass seeder, 3-pt. hook-up corn planter, log chain, many other items.

**HOUSEHOLD GOODS**

30-inch Philco electric stove, G.E. refrigerator, wardrobe, chest, round top table, bedroom furniture, dishes, etc.

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**Carl Lindeman**

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