

# Ten-fold Hike In Contract Revenue Announced By RTI

The Research Triangle Institute's contract revenue for 1963 will total approximately \$2,300,000 — a ten-fold increase over 1959, RTI's first year of operations.

Institute research is conducted in seven Divisions and Laboratories and covers such diverse subjects as the reliability of space systems, a search for anti-tumor agents in plant extracts, civil defense planning, and the structure of polymer materials.

The Institute's permanent staff, now at 185, will reach 200 before the end of the year.

RTI now occupies three buildings on its campus in the Research Triangle Park, a fourth in Durham, and anticipates the completion of a fourth building on the campus in late 1964.

These facts regarding the rapid growth of one of the nation's newest research institutes are revealed in a publication entitled "Current Report" which was released last week by the Research Triangle Institute. The report describes the creation of RTI in early 1959 and its expansion since that date and discusses many of the Institute's current research programs.

A separate, non-profit organization with a 280-acre campus area in the center of the Research Triangle Park, RTI is owned by the Triangle universities and its creation was initially supported by funds from the Research Triangle Foundation. On the Current Report's opening page, Institute President George Herbert pays tribute to the contributors to the Research Triangle program, to state government leaders "who have encouraged and supported the growth of RTI," and to the Institute's "parent universities and their faculties." He describes the publication as a "report of progress" to those who have aided in the creation of RTI and "to the companies, government agencies and foundations which have supported research at the Institute and to those who may benefit from the Institute's future research activities."

Giving additional details on Institute operations, Herbert said monthly research revenue now is at an annual rate of \$2,500,000 and that the Institute's large contract backlog assures continued growth in 1964. Institute activities presently occupy 65,000 square feet of office and laboratory space and this figure will grow to nearly 90,000 square feet with completion of the William Trent Ragland Building in late 1964.

DTI's rate of growth is illustrated in the Current Report by a chart of annual revenue. In 1959, its first year, the Institute billed its clients \$230,000 for research services. This figure grew to \$440,000 in 1960, \$800,000 in 1961, \$1,600,000 in 1962, and is estimated at 2,300,000 for 1963.

Among the sample listing of clients, supporting contract research at RTI, are such companies as Celanese Corporation of America, Bell Telephone Laboratories, Douglas Aircraft Company, General Electric Company, Union Carbide Corporation, Western Electric Company, and Chemstrand Research Center. Government agencies currently sponsoring research at RTI include the National Aeronautics and Space Administration, Atomic Energy Commission, Office of Civil Defense of the Department of Defense, National Institutes of Health, U. S. Army Chemical Center, and the Aeronautical Division of the U. S. Air Force.

The diversity of RTI's research is demonstrated by the report's descriptions of some current projects. Extensive research in the reliability of electronic and electromechanical systems is conducted by statisticians, mathematicians, and systems engineers in the Statistics Research Division and engineers and physicists in the Solid State Laboratory. Under contract from the National Aeronautics and Space Administration, RTI scientists have developed a probabilistic modeling technique to be used for evaluation of the expected performance of complex electromechanical systems. Similar work on electronic circuits has been performed for the U. S. Army Signal Supply Agency. NASA also supports an RTI project, now in its third year, which provides abstracts and reviews of technical literature on reliability to NASA and Department of Defense contractors as well as many other research and development groups.

In the Natural Products Laboratory, RTI chemists are producing an array of new, structurally modified steroids which are tested for anti-tumor and

hormonal properties; synthesizing new compounds which may be effective in reducing the damaging effects of radiation on living cells; and attempting to find, isolate, and identify anti-tumor agents in growing plants.

Chemists and physicists of RTI's Camille Dreyfus Laboratory, working with Resident Visiting Scientists, are engaged in long-term basic research to provide a better understanding of the properties and structures of polymers, the macromolecules which are better known to laymen as plastics and synthetic fibers.

A broad program of civil defense research, conducted by analysts of the Operations Research Division, includes development of procedures for full use of the nation-wide data on available shelter areas, studies of the health and medical conditions associated with shelters, and studies of the conditions and resources which might exist after a nuclear attack.

Other research described in the Current Report includes the development of new applications for radioisotopes in the Measurement and Controls Laboratory and plans of work in radar and communications in RTI's new Radiation Systems Laboratory.

## UNC, State Frosh Play On Saturday

In the midst of all the talk and furor of the opening of another football season, there is one outstanding game that will not go unnoticed, a game played with the central theme of "Strong Legs Run That Weak Legs May Walk", the Sudan Temple Bowl Game. On Saturday, September 19, in Riddick Stadium in Raleigh the Sudan Temple will present the annual game between the freshman teams of the University of North Carolina and North Carolina State College. Kick-off time is set for 8:00 p.m.

This game, played annually for the benefit of the Greenville, S. C. Unit of the Shriners Hospital for Crippled Children, will feature the Carolina-State frosh in a prelude to the scrap between their big brothers in a game at Chapel Hill. Coaches George Barclay of Carolina and Johnny Clement of State are honing their squads for this encounter and if any of the preceding Bowl Games are any pattern, the fans are in for a whale of a contest. Both squads are liberally sprinkled with outstanding high school stars from North Carolina and all of the boys are fighting for a starting berth on the teams. Last year's scrap was taken by the Tar Babies by a score of 16-12 and the Wolflets are out to avenge that licking. In addition to a fine football game, there will be plenty of pageantry, color and spectacle as the gaily clad, uniformed Units of Shriners perform before the game and at half-time.

All proceeds of this game will go to the support of the Greenville Unit of the Shriners Hospital for Crippled Children, which annually treats hundreds of crippled children, without regard to race, creed or color. The only requirement for admission is that the child's parents be not financially able to pay for treatment.

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HELP — On every team, each player must depend on all the other players. No man is an island. Bob Lacey can catch passes standing on his head, but in this case he had assists. UNC

quarterback Junior Edge covered Lacey's right end, and the balding head at left belongs to UNC Sports Publicist Bob Quincy.

## Baptist Sermon Topic Announced

"The Faith We Inherit" is the topic of the sermon to be delivered by Dr. Henry E. Turlington, pastor of the University Baptist Church, at today's 11 a.m. worship service. In addition to the Choral Introit and Prayer responses, the Chancel Choir, under the direction of Mrs. William C. Burris, will sing two anthems: "Hear My Prayer, O God" by Arcadelt and "O Thou From Whom All Blessings Flow" by Tchaikovsky. Mrs. J. O. Candler will be guest organist.

The evening worship will begin at 7:45. Dr. Turlington will speak on "Local Loyalty and Large Outlook." The Chapel Choir will sing as its call to worship "Praise to the Lord." The anthem chosen for the evening is "Jesus My Lord is Real to Me" by Reynolds. The Chapel Choir is composed of boys and girls of junior high and senior high school age.

University Baptist Church is located at the corner of Franklin and South Columbia Streets. Visitors and newcomers to Chapel Hill are cordially invited to attend the services. A nursery for pre-school children is provided.

## IN NEW HOME

The K. B. Cole family has moved from Dogwood Acres to 311 Weaver Street in Carrboro. Mr. Cole is renting his house in Dogwood Acres to Phillip I. Marshall, a scholarship student at the University. The Marshalls have three children and will be in Chapel Hill for four years.

## Carolina Concerned About Pass Defense

By PAT STITH

At Carolina completing a pass is as easy as flipping the ball to End Bob Lacey. It's pass defense that's the big problem nowadays.

There's reason for concern. Carolina will face five of the top 22 quarterbacks in the nation this fall.

The National Collegiate Athletic Bureau's latest statistics are revealing. Miami, who visits Chapel Hill in November, and Maryland boast the number two and three passers in the nation in George Mira and Dick Shiner.

And then there's a youngster named Dan Reeves down at South Carolina. Jim Rossi will do the throwing for N. C. State, and Georgia has Larry Rakestraw.

Of course, it's not going to be a one-sided fight. Carolina has its own master of the throw ball in Junior Edge, who is ranked sixth nationally.

And Junior will have glue-fingered Lacey, Carolina's all-everything candidate, to throw to. Bob made 44 catches last fall, tops in the Atlantic Coast Conference.

Besides Lacey, Carolina has two other ACC pace-setters. Halfback Ronnie Jackson, who can go the length of a football field in 9.6 seconds, is tops in kick-off returns.

## JOINS LAW FIRM

James F. Blue III of Red Springs, a 1963 graduate of the University Law School, has joined the Durham-Chapel Hill law firm of Bryant, Lipton, Bryant and Battle. Mr. Blue will work in the firm's Durham office and also with Gordon Battle in Chapel Hill. He and his wife and child will make their home in Durham.

## COMPLETES TRAINING

George R. Davis, 18, son of Mrs. William E. Davis of Carrboro, recently completed basic training at the Naval Training Center, Great Lakes, Ill., in graduation ceremonies consisting of a full-dress parade involving more than 1,000 men.

# Justice, Dudley Will Be Honored

Two of the South's greatest football players will be honored in a special ceremony at half-time when Carolina plays host to Virginia here next Saturday.

Bill Dudley, known in his playing days as Bullet Bill of the Cavaliers, and Charlie (Choo Choo) Justice of UNC are the pair whose exploits in this particular rivalry are unequaled.

Also slated for special recognition at a luncheon and at intermission festivities will be several members of the 1903 Carolina squad.

Dudley, now a Lynchburg, Va., businessman, played one of the most spectacular games ever in Kenan Stadium in 1941. Then a 19-year-old senior, Dudley led the Cavaliers to a 28-7 win over the Tar Heels, the first time this had been accomplished in eight years.

In that game, Bullet Bill scored 22 points and passed for the other six. He carried the ball for 215 yards on 17 attempts. He completed six of 11 passes for 117

yards. He punted eight times for a 39.3 average.

Justice, who like Dudley is a member of the Football Hall-of-Fame, played four winning years against Virginia. During that span the Choo Choo gained 727 yards, scored or passed for 11 touchdowns against the Cavaliers.

Now living in Asheville, his hometown, Justice is in the oil business.

After finishing college, both Dudley and Justice played professional football. It is unusual that the two wound up their careers with the Washington Redskins.

Game time for the Virginia-Carolina clash is set for 1:30 p.m., and another feature of the day will be the presentation of the Lenoir High School Band. This band, which plays yearly at UNC-Cavalier games, was on hand when the original Kenan Stadium was dedicated in 1927.

## Lincoln Defeats Upchurch By 22-0

Lincoln High's Tigers came to life for two touchdowns in the third quarter and went on to defeat the Upchurch Eagles of Reelford County, 22-0, here Friday night.

Thomas Bell raced 80 yards for the first touchdown and Fred Baldwin ran the two-point conversion. Guard Lewis Atwater intercepted a pass and ran 20 yards for the second score. James Bynum's 30-yard run accounted for the final tally, with Willie DeGraffere running the conversion.

The visitors had an 80-yard touchdown play called back because of a penalty. The Tiger defense stopped their only other serious threat on the one yard line.

## REVIVAL CONCLUDES

Dr. P. W. Williams of Danville, Va., will conclude the revival services at the First Baptist Church on Roberson Street this morning at 11. Dr. Williams' subject will be "The Ball Game of Life — The Last Half of the Ninth." The Dolletes of New York City, currently touring the South, will sing at this morning's service. The public is invited.

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Triangle Area Premiere Rialto Theatre, Durham, Tues. night, 9:15. Regular performances starting Wed., daily, 2:02, 4:22, 6:42, 9:02.