

WEATHER

Cloudy, cool and occasional rain today, with expected high of 52.

# The Daily Tar Heel



KNIGHT

Educational TV looms as the white knight of the video wars, says the editor. The why and wherefore is on p. 2.

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Complete Wire Service

CHAPEL HILL, NORTH CAROLINA, WEDNESDAY, DECEMBER 1, 1954

Offices in Graham Memorial

FOUR PAGES TODAY

## Self-Confessed Red Names His Comrades

MIAMI, Fla. (AP)—Ralph Long of Durham, N. C., self-confessed former red, told the House Un-American Activities Committee yesterday the Communist Party operated openly at the University of North Carolina when he was a member in 1946-48 and that the school never did anything about it.

In two hours of testimony yesterday morning, Long named five faculty members and a number of students who he said attended communist cell meetings with him and was apparently just getting started on his list when the hearing was recessed for lunch.

Long said the purpose of the student communist clubs at Chapel Hill was to "build up the Party among the young intelligentsia of North Carolina," print and circulate literature and raise money to advance the Red cause.

Julius Scales, recently arrested by the FBI on charges of conspiracy against the government, admitted openly in 1947 that he was head of the Chapel Hill party, Long said, and communist activities there were publicly known.

In answer to questions by committee members, he said that to his knowledge the school never made any investigation.

(See RED, page 4.)



RALPH LONG

says the Party flourished here (Photo by Charles Cooper, Durham Herald.)

## UNC Astronomers Will Take 'Tour' Tomorrow

Dr. Morris S. Davis, professor of astronomy here, will present a "Guided Tour of California Observatories" at tomorrow night's meeting of the Chapel Hill Astronomy Club.

The tour will consist of pictures which Dr. Davis took of some of the California observatories that he visited last summer while in California attending the conference of teachers in astronomy, plus information on points of interest covered at the conference.

The newest of California's observatories is located on Palomar Mountain. The observatory houses

the 200-inch Hale telescope which was conceived by George Ellery Hale.

Other observatories located in California are the Lick Observatory at Mount Hamilton and the Mount Wilson Observatory, the home of the 100-inch Hooker Reflector.

Dr. Davis will show pictures of these observatories, and speak at the conference of astronomy teachers at which he heard lectures by Bart J. Bok, professor of astronomy at Harvard, on Radio Astronomy and the Structure of the Galaxy

## Air ROTC Names Twenty 'Distinguished'

The Air Force ROTC Department has named 20 cadets as "Distinguished Military Students," selected by over-all academic achievement, grade average in military classes, Air Force ROTC summer camp record and excellence exhibited in leadership ability.

Those selected are given special consideration as they enter active military service in applying for Regular Air Force appointments.

The following cadets have been selected: Larry H. Addington, John D. Barab Jr., Cyrus L. Brooks, James W. Claiborne, Robert S. Colbert, David B. Cooper, Don W. Geiger, Heiskell R. Gray, John M. Gwynn Jr., Leonard J. Howell;

Claude J. Johns Jr., William H. Kirkman Jr., Rodger C. Logsdon, John L. McDaniel, George B. McGehee Jr., Herbert E. Neilson, Kenneth M. Pruitt, Robert J. Roquemore Jr., Howard V. Scotland Jr., Ronald L. Shearin, Leo C. Wilkerson, Charles P. Wolfe and James W. Wright.

These names will be read with appropriate ceremony at June graduation exercises.

### Warrant Served

Chapel Hill police said Monday that the warrant charging James Boyd with violating a state statute which prohibits low flying over towns and public gatherings has been served to the violator.

Boyd allegedly buzzed the campus several weeks ago dropping leaflets which publicized the "beat Wake Forest" pep rally. The rally was sponsored by the University Club, according to the leaflets.

The warrant was returned today after having been served in Durham by police there.

Boyd faces misdemeanor charges. His trial has been set for Dec. 7, according to the Clerk of Court's office.

## Regional NSA Meeting Slated For Thursday

The fall Regional Assembly of the Virginia-Carolina Division of the National Student Association, Joel Fleishman, chairman, will convene Dec. 2, 3 and 4 at Duke University.

The association is comprised of member schools from Virginia and North and South Carolina. The assembly, however, will be open to delegates from all schools in the tri-state region, whether they are members of the association or not.

The three-day meet will commence tomorrow with an address by Ed Lacks, National Travel Director of the USNSA.

Conferences in which workshops explaining the desired functions of the various phases of student government work will be held on Friday, Dec. 3.

The conferences and their chairmen are: Student Body Presidents, Dennis Chatham, WCUNC; Collegiate Editors, Charles Kurat, UNC; Judicial Chairman, Julia Allen, Duke; Campus Coordinators, Lydia Simmons, Duke; Student Government Organization, and leadership, NSA National Officer.

COMMISSIONS MEET FRIDAY  
The agenda for Friday afternoon will be primarily devoted to commission meetings. Chairmen of these commissions are: Travel Affairs, Helen Haynes, WC; Educational and Student Affairs, Pat Fields GC, and Student Government Planning, Jim Turner, UNC.

Dr. Hollis Edens will deliver the keynote address Friday evening. Immediately following the address, a panel discussion concerning academic freedom in which Jim Wallace of UNC, Dr. King of UNC, Dr. Parker of Duke, David Reid of UNC, and Jim Hardison of Duke will participate, will be held.

## Statesmen Coming Here



CHESTER BOWLES  
... Dec. 9



ESTES KEFAUVER  
... next Monday

## Bowles & Kefauver Set For Talks Here Soon

Ex-Ambassador Bowles Addresses UNC Dec. 9

The Carolina Forum will present Chester Bowles, former governor of Connecticut and former U. S. ambassador to India, on Dec. 9.

Bowles will speak at 8:30 in Carroll Hall. He will be introduced by Dr. Raj C. Bose, professor of mathematical statistics here.

The former U. S. ambassador entered government service in 1941. In 1943 he was named to head the office of price administration, and in 1946 he became the director of economic stabilization.

In 1946 Bowles was the American Delegate to the UNESCO Conference in Paris and was appointed special consultant to the secretary-general of the United Nations. He also traveled in the capacity of chairman of the UN Appeal for Children in Eastern and Western Europe.

As ambassador to India, Bowles traveled through India talking with students, businessmen, farmers, factory workers and government officials and worked with a major point four project developed during his term.

Kefauver's Forum Talk Slated For Next Monday

The date for the appearance of Senator Estes Kefauver, the next speaker in the current series sponsored by the Carolina Forum, has been changed from Dec. 3 to Dec. 6, according to Joel Fleishman, Forum chairman.

Kefauver will speak at 8:30 in Memorial Hall. Professor Walter Spearman of the School of Journalism will introduce him.

The Tennessee senator has been prominent on the national scene in recent years, both for his presidential campaigning and his legislative and investigative work in the Senate.

During his 10 years in the House of Representatives he was a defender of the Tennessee Valley Authority and was one of the sponsors of the GI Bill of Rights.

Since his election to the Senate in 1948, Kefauver has served as a member of the Preparedness Committee of the Senate Armed Services Committee and of the Judiciary Committee and several of its subcommittees.

(See KEFAUVER, page 4.)

## Y Sponsoring Brando

The YMCA is sponsoring an advance ticket sale for the Chapel Hill premier showing of Marlon Brando's latest thriller, "The Wild One."

The tickets will be on sale tonight through Monday night in all

dorms, sorority and fraternity houses, Lenoir Hall and the Y lobby.

Proceeds from the tickets will be used to defray expenses of a delegation to the National Assembly Dec. 27-Jan. 2, in Lawrence, Kan.

## Science At UNC

# While Storm Clouds Gather: Will The Bomb Win?

By CHARLES CHILDS

The A-bomb tests in New Mexico had far-reaching effects in the United States. In Illinois they caused the exposure of a large quantity of photographic film because radioactive particles had entered the film's ingredients. Fifteen miles from the site some cattle lost patches of hair and suffered blister-like lesions. Later, after the atomic artillery testing, radioactive snow fell in Washington, D. C.

Five years after the atomic bombing blast of Japan, 45 cases of cataracts were found among persons near the blasts. These also appeared among persons who were facing the explosions 30 miles away.

There are reports that the number of still and deformed births among the Japanese survivors has been considerable.

### EFFECTS ON INHERITANCE

As has been discussed, a person has to be exposed to a large amount of radiation within a short time to be visibly effected. He might recover with no visible changes, including complete regrowth of hair.

Other persons near the blast area will consider themselves lucky if they were exposed with no ill effects. However, it is likely that these "lucky-people" have suffered severe changes in their genes, and these changes are more important than a small burn.

The damage to genes is important because the genes determine the inheritance of children. An example of this damage can be found among certain births by the survivors of the first atomic bombs.

Of course these people were subjected to intense but short periods of radiation, but it is another consideration which prompted Prime Minister Winston Churchill's statement about the dangers of

even testing these weapons.

This consideration is that the strength or time of exposure is of little concern when the genes are involved, because the effects on the genes continually build-up and do not repair themselves.

Speaking about this danger, Dr. D. G. Catcheside of Cambridge warned:

"It must be emphasized that absorption of radiation is always connected with damage, no matter how small the dose, and that many radiation effects are cumulative."

We knew that in an H-bomb war there could be few survivors. However, we fail to realize that even the testing of such nuclear weapons is also highly dangerous.

Catcheside continued to explain that it had been known for some time that chronic irradiation would induce tumors. He added that it had not been previously realized that with small daily doses a variety of tumors may be induced at an earlier age.

### MAY BE 'DISASTROUS'

In speaking of these small daily doses, he told that with a dose of 0.5 roentgen per week and continued over a large number of generations there would be defects produced in the genes. These defects would reduce the fitness of many apparently normal individuals. Catcheside considers this to be the more important things "from the point of view of the species as a whole. The total effect may well be very serious or even disastrous."

One of the greatest men in human genetics today reflects the same warnings. Dr. H. J. Muller tells us that "the genetic effects are essentially irreparable . . . and cumulative over an unlimited period."

Dr. Muller has worked out what can be the effects on a population of 100,000 people. If each generation of this group were exposed to 20 roentgens, then in

each generation one out of every 20 persons would be "genetically eliminated."

He warns that "every increment in the genetic load (of radiation) must be regarded as in itself objectionable and is to be avoided if possible, even if it



THE ATOM BOMB — 1945

... what will its sisters do?

does not threaten to wipe out mankind as a whole, and even if it is distributed in such a way that it cannot be recognized as such."

As to Catcheside's rate of 300 roentgens, Muller had this to say:

"It would take only some 100 to 300 roentgens applied to all human population every generation to result . . . in genetic death and complete frustrated lives for all but a minute fraction of the population in every generation."

The question arises, "but will a few H-bomb tests really endanger us?" Well, the scientists believe that they will, so let us look at a report made in 1952 for the Atomic Energy Commission:

"In order to constitute a world wide hazard, something like a million nominal atomic bombs would have to be detonated, roughly one to each 200 square miles."

Notice that the report referred to nominal atomic bombs; now, consider that the super-bomb, which is 750 times stronger. It is simple to see that 1,400 of these super-bombs would do a thorough job of creating a worldwide hazard.

We may assume of course that 1,400 super-bombs would not be exploded in case of war. However Churchill said the atmosphere would remain radioactive for 5,000 years from such explosions and during this time there would be several generations exposed to radiation.

### ARE WE VULNERABLE

There are people who favor continuation of H-bomb tests, but look at the facts about war:

In case of a surprise attack, The Bulletin of Atomic Scientists pointed out that it would take only 150 super-bombs to "neutralize" our country. Assuming our air defense to be 90 percent efficient, which is a considerable overestimation, then it would take

only 1,500 planes, each with one bomb, to do the job.

If the bombs had been set to explode at a certain altitude, then even the hit planes' bombs would explode before the planes crashed.

Or another way of causing panic could be an under-water explosion off the West Coast. This would shroud areas such as San Francisco in a lethal fog. The prevailing west-to-east winds would do the rest.

There is even a newer weapon, called the "cobalt bomb," reportedly scheduled for test by the Russians in 1955. The radiation from such a bomb can make the radiation from a super-bomb look like a candle.

### IS THERE ANY HOPE?

We already see both sides of the cold war claiming that they will use nuclear weapons in a war.

In London last month Field Marshall Montgomery, deputy supreme Allied commander at SHAPE (Supreme Headquarters of Allied Powers in Europe) told the Royal United Services Institute:

"I want to make it absolutely clear that we at SHAPE are basing all our operational planning on using atomic and thermonuclear weapons in our defense."

In Moscow, Izvestia reported that weapons of mass destruction will be used against the United States and its allies in the event of World War III "unless these are prohibited by an international act, or the states which possess such weapons renounce their use."

Considering the effects of nuclear weapons on present and future mankind, there is a critical need for the nations to come together and outlaw the use of these weapons. Only in doing this and seeing that such an agreement is enforced can there be any hope for the survival of man.

## UP Names Yarborough's New Head

By CHARLES JOHNSON

Charles Yarborough was elected chairman of the University Party last night.

Yarborough, a senior from Louisburg, is a member of the varsity track squad, president of the senior class and secretary of the Monogram Club. He was president of his sophomore class and is also a member of Phi Eta Sigma, freshman honorary scholastic fraternity.

After the election, the new chairman said "The University Party is the most representative group on this campus. Its members and candidates have a sincere interest in working, not for any clique or selfish faction, but for all of the students. We think that our standard of 'conservative progressiveness' is the best way of achieving responsible and useful student overment."

"It is the firm conviction of the members of this party that Carolina comes first, then politics. Political action is necessary in any form of government, but there is always the ever-present danger of having too much government and too much politics."

"As party chairman, I shall do my best to keep politics at a respectable level," Yarborough said. "I am confident that this group is one of the most resourceful and most capable organizations in the University. Our candidates are not interested in themselves alone, but are interested in doing a good job for the whole student body."

"If the spirit that was shown in the last elections prevails this spring, the University Party will win an even greater victory next April."

The other officers elected were: Bill Sabiston, vice chairman; Jane Cocks, secretary; John Raper, treasurer, and Charles Ackermann, publicity chairman.

## 76 Out Of 79 Allegedly Favor George's Petition

By DICK CREED

Seventy-six out of 79 people contacted "the other day" signed Dr. W. C. George's pro-segregation petition to Governor Hodges, according to a statement by Dr. George.

Dr. George said yesterday that he and W. P. Jordan, a real estate agent in Orange County and supporter of the petition, "made a trip through the county the other day to place copies of the petition and to get signatures ourselves."

Continued Dr. George, "We contacted 79 people, and 76 of them signed."

The three people who didn't sign were from out of state, he said. Dr. George said that "we have not yet attempted to contact the colored people" but that "some have called to sign" the petition.

He said that his soliciting of signatures for the petition would be confined to Orange County.

He added, however, that he has received requests from other parts of the state for copies of the petition, and that he is mailing them.

"I haven't the time or the facility to organize the state," Dr. George said. He said he did not know to what extent the pro-segregation campaign was being organized in other counties.

He said he had received no report on the number of signatures which have been affixed to the copies of the petition so far.

### TWO WEEKS OLD

Dr. George originated the petition on Nov. 18. It calls for continued segregation in the public schools on the basis of "biological and social" differences between the white and Negro races.

It is addressed to the Governor and the members of the State Senate and House of Representatives.

It will be presented to them when the Legislature meets next month, according to Dr. George.

## Trustees Approve NCS Plan For Peru Mission

RALEIGH (AP)—The executive committee of the Board of Trustees of the Consolidated University of North Carolina Monday approved a plan of operation for a State College agricultural technical mission to Peru.

The mission will assist the Peruvian government in developing an agricultural research program designed to create a higher level of productivity in that country.