

## PROMINENT IREDELL COUNTY CITIZEN WRITES ABOUT ZEB VANCE LONG

Mr. Editor:

It is quite a compliment to our Iredeell fellow-citizen, Mr. Zeb Vance Long, that he has won the Democratic nomination for solicitor in this district practically without a contest; that by common consent the Democrats of the district accepted him as their candidate for the high and honorable and vitally important position of state's prosecuting attorney.

As a fellow-townsmen of Mr. Long and one who has known him intimately since he came to the bar about twenty years ago, I ask the privilege of saying to the Democrats of the district, not only, but to the entire citizenship, that this confidence in Mr. Long has not been misplaced. The tribute is deserved; and if chosen solicitor by the voters in November, as I am sure he will be, I have no hesitation in giving assurance that he will meet public expectation in the discharge of the duties of the office.

For twenty years or more Mr. Long, a native of Iredeell, has practiced law in Statesville. In addition to the practice of his profession he has held, and faithfully discharged, a number of public trusts. He was elected to the state senate when quite a young man, was three times re-elected and could have continued in that position had he asked it. Twice during his service in the senate he filled the high and important position of chairman of the appropriations committee; and as the head of this most important committee, he rendered the state faithful service and discharged the duties most acceptably. It goes without saying that evidence of ability, capacity and leadership is necessary to win a place like that in a legislative body and hold it. This is cited as evidence of Mr. Long's successful and acceptable public service in a legislative capacity. From the party standpoint, it can be said that Mr. Long has rendered conspicuous service to his party and well deserves reward at the hands of his party. But it is as a lawyer and a man who will render faithful service to all the people as a public servant, that I desire especially to present Mr. Long to the voters of this judicial district.

As a lawyer Mr. Long ranks among the first at the Statesville bar, and it can be accepted without question that he has the legal ability to successfully fill the office of solicitor. Not only that, he is honest and fearless in the discharge of a trust. It is not infrequent that lawyers become so habituated to appearing on the defense side of the criminal docket that they get the feeling that nobody should be punished for anything; or at least their sympathy is usually with the defendant, as a matter of habit. It is unnecessary to say that a lawyer of that habit of mind is not fitted for a prosecuting attorney. He would always be considering ways to let the defendants off. Mr. Long has appeared on both sides of the docket in his practice and has appeared for the prosecution in a number of important homicide cases. He has not only had experience as a prosecutor, but it can be said for him that neither as a habit of practice, or in any other respect, is he in sympathy with those who violate the law. He can be depended on to prosecute, honestly and fearlessly, all offenses against the law.

He is neither unreasonable nor cruel; on the contrary, he is a kind-hearted man. But he has the courage to do his duty as he sees it and law violators will not secure leniency at his hands through either fear, favor, affection or indifference.

In addition to these qualities which so well fit him for the office to which he aspires, Mr. Long is a plain democratic citizen. He is one of the people. Neither prosperity nor high place turn his head; and the humblest citizen in the district can at all times be assured of a patient and sympathetic hearing and courteous treatment at his hands. He will tolerate no abuse of privilege, and neither personal nor official influence, nor "pull" will count with him in the discharge of his duty. But as a just man, as well as a public prosecutor, he will seek to serve the ends of justice as well as convict and punish the guilty.

Respectfully,

F. M. C. DAVIDSON,  
Statesville, N. C., June 12.

## INSTALLATION OF PASTOR AT PRESBYTERIAN CHURCH

The ordination and installation of Rev. Arthur Lang as pastor of the Asheboro Presbyterian church was solemnly and impressively performed in the church on Sunday night.

The commission appointed was composed of three pastors and one elder of the Orange Presbytery, Rev. E. Frank Lee, of Greensboro, who preached the sermon; Rev. Whitely, of Greensboro, who charged the congregation; Rev. S. M. Rankin, of Greensboro, who charged the pastor, and Mr. A. W. McAllister, elder of the church by the side of the Road, Greensboro, who addressed the pastor and the congregation.

The ceremony was conducted before an audience that packed the new church to the doors, the other churches of the town having suspended their regular Sabbath night services, the several pastors of those churches, with many of their congregations, attending the rites, which were dignified and appropriately reverent.

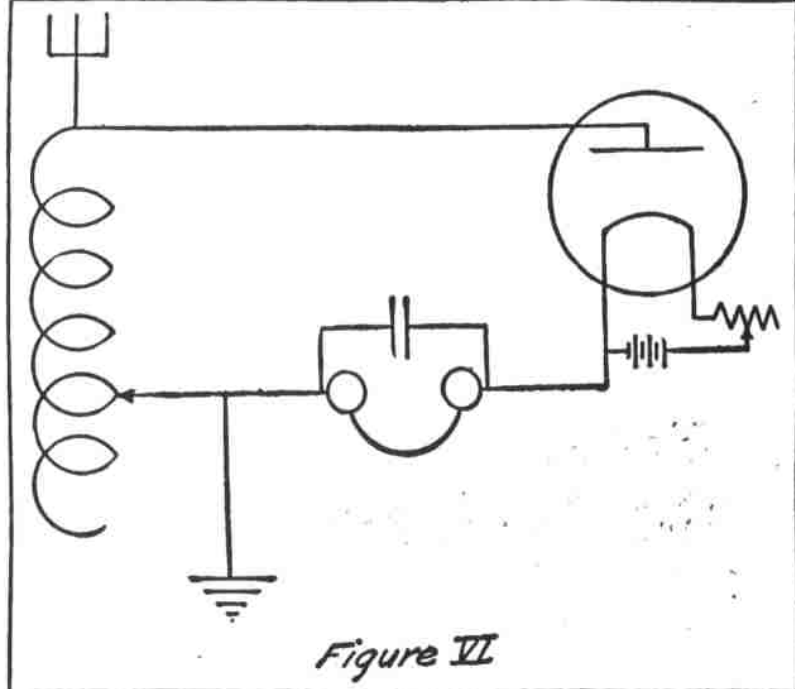
Mr. Lang is a native of Pennsylvania, a recent graduate of the Union Theological Seminary, of Richmond, Va., and assumes charge of his church under conditions which give promise of much success to his pastorate. He has been ardently welcomed by the people of the several churches of the town, and it is expected that a large and loyal congregation will be secured.

## RADIO

### THIRD ELEMENT IN THE VACUUM TUBE

Grid Added to Fleming Valve by  
Dr. Lee DeForest Was a  
Big Improvement.

Any device which will pass electricity in one direction and will wholly or partially obstruct the flow in the opposite direction is termed a rectifier. Because when connected in the path of an alternating current it will suppress one-half of each cycle and therefore the circuit will be traversed by pulsating direct current. A rectifier also is said to possess unidirectional conductivity, meaning, of course, that it will conduct electricity in one direction only.



rection only. Its ability to rectify currents of extremely high frequency determines its application in radio.

Due to its ability to rectify high frequency alternating currents the two-element (filament and plate) vacuum tube can be used in a radio receiver as a detector.

Fig. VI is a simple radio receiving circuit employing this type of two-element vacuum tube in place of a crystal detector.

Dr. J. A. Fleming of London, England, was the first to use a two-element tube of the type just described as a medium of rectifying high frequency radio currents. Fleming called his product a valve because it would let current flow in one direction but not in the other direction. The Fleming valve as a forerunner of the vacuum tube of today marked a very important step in the progress of the radio art.

The Fleming valve, however, in its original form was not much better than other forms of rectifiers then in use and, owing to the greater ruggedness and ease of manipulation of the latter, did not come into general use as a detector.

Dr. Lee DeForest, an American, greatly improved the Fleming valve by adding a third electrode called the grid, which served the function of a control element and thus made it possible to utilize the feeble incoming signal currents to control more powerful local currents. The three-electrode vacuum tube of DeForest is the tube used so extensively today.

The third element which is called a grid and from which the three-electrode vacuum tube derives its name was placed by DeForest between the filament and the plate in the path of the electrons. The grid is a perforated plate or mesh of fine wire through the openings of which the electrons must pass in their journey from the filament to the plate.

Fig. VII is a diagrammatic sketch of the structure of a three-electrode vacuum tube and is substantially the same as that of a three-electrode vacuum tube.

dition of the grid circuit I-J-K-L. The battery in the grid circuit is called the "C" battery.

As a start let us suppose that "C" battery voltage is zero. The operation of the three-electrode tube would then be exactly like that of a two-electrode tube, just as though there were no grid. Like a two-electrode tube when the filament C-D is brought to incandescence by the "A" battery a steady stream of electrons will be given off, which will be drawn over to the plate E. Plate E is maintained at a positive potential with respect to the filament by the "B" battery.

Now if the grid is made positive with respect to the filament, it is possible to accelerate the flow of the electron stream from the filament to the plate; if the grid is made negative with respect to the filament, the flow of the electron stream from the filament to the plate will be retarded.

Or in other words, by making the grid positive or negative with respect to the filament, it is possible to increase or counteract the space charge. The third electrode or grid thus offers a means of controlling the current in the

plate circuit without changing the plate potential or the filament temperature.

The characteristic curve of a three electrode vacuum tube is shown in Fig. VIII. This diagram shows the relation of grid potential to plate current, assuming that the filament temperature and plate voltage remain constant.

It can be seen from the curve that by applying a negative potential of value E to the grid, the plate current can be reduced to zero. The negative charge on the grid will have the effect of a negative potential E with respect to the filament, making the negative charge so strong around the filament that the electrons cannot leave it. On the other hand, if a positive potential of value F be applied

to the grid with respect to the filament, the maximum or saturation current will flow in the plate circuit. Applying a greater positive potential than F to the grid with respect to the filament will not cause an increase in the

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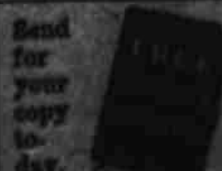
BURLINGTON, N. C.

C. G. Somers, Field Representative

### New Hotel for Statesville.

Saturday, June 17, marked the opening of the new hotel for Statesville, "The Vance", so named in honor of its chief promoter, G. Vance Haskel of that place. The hotel is a modern one, comfortably and beautifully equipped. The cost of the building and equipment complete is around \$250,000.

Very large and modern Tangle Lake, located at Statesville, N. C., is now open for the season. It is a beautiful spot for a vacation.



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