

## New Hope Is Expressed For Progress in Fight Against Poliomyelitis

New hope for progress in the fight against infantile paralysis was expressed today by Mr. W. Graham Lynch, local chapter chairman of the National Foundation for Infantile Paralysis, in revealing plans for the First International Poliomyelitis Conference in New York this summer.

Mr. Lynch said preliminary announcement bulletins and invitations were being sent to local physicians and other qualified scientific and professional persons who may wish to hear leading authorities from all parts of the world pool their information on infantile paralysis.

The conference is being sponsored by the National Foundation as part of its search for a cure, preventive and more advanced treatment method of infantile paralysis, the local chairman said. It will be held in the Waldorf-Astoria Hotel in New York City July 12 to 17.

Mr. Lynch said National Foundation headquarters had informed him that official government representatives from more than 60 nations had been invited to present summaries of poliomyelitis problems in their countries. In addition, he added, more than 200 other medical authorities will participate in the program.

Asserting it was the local chapter's hope that many qualified professionals from this area would attend the conference, Mr. Lynch said the session would serve as a means of collecting and distributing vital knowledge on a world-wide basis.

"During the war years," he said, "this exchange of information was limited. So not only is there a vast backlog of vital data which must be evaluated, but

our medical authorities expect that such a meeting will result in more complete and expeditious advancements in the future."

Dr. Hart E. Van Riper, medical director of the National Foundation, has been named general chairman of the conference.

### Legum Crops Build Nitrogen In Soil But Not When Cut

Raleigh — Legume crops are splendid for building up nitrogen supplies in the soil but, contrary to an idea prevalent among many farmers, they fail to accomplish this purpose when harvested for hay, according to Dr. L. E. Miles, chief of the Soil-Testing Division of the State Department of Agriculture.

"Actually," the soil chemist added, "the nitrogen content of the soil is depleted when legume hay is harvested. Scientific studies conducted in recent years show that most of the nitrogen stored in legume plants, especially at the harvest stage of growth, is found in the stem structure, not in the roots. It follows, therefore, that the crop should be left to the land if it is desired to build up the nitrogen content of the soil."

Dr. Miles also scotched a common belief that the larger the number and size of nodules on the roots of legumes, the more nitrogen they produce and store. Research has shown, he explained, that this is not necessarily true. The legume Sesbania, it was found, nodulates most profusely and yet stores less nitrogen than most legumes commonly used for cover crops. The number, size and shape of nodules appeared to have little or no effect upon the amount of nitrogen stored in the plants. It was found, however, that the percentage of nitrogen was much higher in the nodules than in other parts of the plants. But the total weight of the nodules in relation to the whole plant was so small that they could be disregarded. An average of all the legumes studied indicated that at the mature stage most of the nitrogen was to be found in that part of the plants above the ground.

"These studies," Dr. Miles continued, "raise a very important practical question: Can legumes be grown and removed for hay without depleting the soil of its nitrogen? Of course, it must be recognized that the soil is depleted of its calcium, magnesium, phosphorus and potassium when the crop is removed, unless these minerals are added as fertilizers, lime and manures.

"The proportional part of the total nitrogen located in the roots varies greatly from one legume to another. For instance, cowpeas, crimson clover, hairy vetch, Crotalaria spectabilis, and Sesbania had less than 10 percent of the total nitrogen located in the roots at the time when they would normally have been cut for hay. On the other hand, Lespedeza sericea had over 37 percent, kudzu over 30 percent, Lespedeza Tennessee 76 and velvet beans over 20 percent.

"This means that if the por-



tion of the plant above the ground, the stem and leaves, of cowpeas, crimson clover, hairy vetch, etc., is removed, more than 90 percent of the total nitrogen contained in the entire plant is lost to the soil. Therefore, instead of building the soil, legumes actually deplete it pretty seriously when they are harvested. Of the several legumes studied, Lespedeza sericea and kudzu might be cut and yet leave very considerable amounts of nitrogen stored in their roots under the surface of the ground."

### Rosemary Baptist Training Union Meet Held Sunday Evening

The young people of the Rosemary Baptist Training Union held their third meeting in the series on "Boy and Girl relationship," Sunday evening after the preaching service, in the home of Mr. and Mrs. George Pappendick.

Miss Vernie Eddings of the school faculty was guest of the group and led a discussion on "To Knit or not to Knit" in other words how to behave on a date.

At the conclusion of the meeting refreshments were served from the dining room table which was decorated with a patriotic scene and lighted red, white and blue candles. There were about twenty five young people present for this meeting.

### How women and girls may get wanted relief from functional periodic pain

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