

(a) For duty in an Emergency Base Hospital to which civilian casualties and other hospitalized patients must be transferred because a community is under enemy attack and one or more of its hospitals must be evacuated.

(b) For temporary duty to assist the armed forces at the time of an extraordinary military emergency which may temporarily overtax local military hospital facilities. Such temporary assistance will be provided in or near the locality in which an affiliated unit has been organized. The period of emergency assistance is expected to be of short duration and will last only until the Surgeon General of the Army can send in additional medical officers or until he can distribute the excessive load of sick and wounded to military hospitals in other parts of the country. Affiliated units are organized primarily for civilian protection and are not to be used to staff military hospitals as they expand to meet increasing medical requirements of the Army.

(3) Since affiliated units are organized by the Medical Division of the Office of Civilian Defense as part of the Emergency Medical Service of their states, they will be expected to provide aid only in their own or neighboring states. Their members will not be detached for duty in other parts of the country nor, in accordance with the terms of their recruitment, will they be activated for any other duty except those listed in paragraph 2 of this statement.

(4) A unit organized from the staff of a teaching hospital of a medical school will not be called unless the hospital itself must be evacuated or unless there is no unit from a non-teaching hospital to meet the emergency need.

(5) The period of obligation for service will cease at the termination of the present national emergency; the Surgeon General will accept resignations of members of units six months after cessation of hostilities.

(6) A commission in the inactive reserve of the U. S. Public Health Service does not prevent members of an affiliated unit from entering the armed forces; resignation will be accepted for this purpose.

(7) Members of affiliated units may wear the authorized lapel buttons which indicate that they have enlisted for emergency service. They are not to wear the uniform until called to active service and need not purchase a uniform unless the possibility of active service is imminent. Uniforms will not be required for brief periods of active service.

Because it is essential for civilian protection, the organization of affiliated units has received approval of the board of trustees of the American Medical Association. For the same reason, the Directing Board of the Procurement and Assignment Service has authorized "essential" physicians to accept positions in affiliated units.

SEARCH FOR MINERALS IN THE MICHIGAN UPPER PENINSULA

THE Michigan College of Mining and Technology, in cooperation with the Geological Survey division of the Department of Conservation at Lansing, is

about to embark on an intensive program of investigation of minerals in the upper peninsula of the state.

Professor A. K. Snelgrove, head of the department of geological engineering, with his colleagues, Professors W. A. Seaman and V. L. Ayres, will prospect geologically the borders of the granite masses of Marquette and Baraga counties, including the Huron Mountain area, for ores of tungsten, molybdenum, beryllium, columbium, etc. Such minerals have already been found there. The task now will be to locate commercial concentrations.

Professor Bart Park, of the department of chemical engineering, aided by the department of mineral dressing, will do analytical work on the samples collected. Dr. R. A. Smith, state geologist, and Franklin G. Pardee, mine appraiser, will consult with the geologists in the field during the summer.

In the Iron River-Crystal Falls area, Iron County, the Federal and State Geological Surveys have already begun a long-term survey of iron resources. This work is being done by Drs. F. C. Park, Jr., and C. E. Dutton, federal geologists, with the collaboration of Mr. Pardee. Aerial photographs are being taken to provide up-to-date base maps. Chemical work on the iron formations, to detect other metals possibly associated with them and hitherto overlooked, will be undertaken.

The University of Michigan is cooperating with the State Geological Survey in exploring for oil and determining methods for more effective conservation. Professors K. K. Landes, chairman of the department of geology, and G. M. Ehlers will carry out stratigraphic and structural studies in the Mackinac Straits region, with particular reference to the correlation of formations exposed there with those containing oil and gas in the fields to the south. The department of chemical engineering will make a general study of the oil and gas fields and operations in the state, especially the Reed City and headquarters fields, to determine possible methods for more effective conservation. Wayne University, through Professor D. C. MacLachlan, will participate in the exploratory projects for oil.

In the copper country, governmental scientific agencies have for some time supplemented the investigations of the mining companies. Since 1942 Dr. J. J. Runner and A. A. Stromquist, of the U. S. Geological Survey, making their headquarters at Michigan College, have been studying the copper mines with a view to finding additional ore.

Stimulus for the field projects came from the Upper Peninsula Mineral Industries Conference which the college sponsored in November, 1942, when representatives of federal and state agencies met at Houghton to receive recommendations from mining companies and to formulate joint plans.