a National Institute of Mental, Health. to be located in the vicinity of the District of Columbia.

The National Registry of Rare Chemicals, 35 West 33rd Street, Chicago 16, Illinois, lists the following wanted chemicals: 2-isoimidazole; 2,1,3-triazole: 4.1.2-triazole: furazan: 1.2.4oxadiazole; 1,3,4-oxadiazole; isotetrazole; pyridazine; pyrazine; quebrachitol; dquercitol; cellopentaose; α -benzylpyridine; hydroxytyramine; epinine; 2,2-difluoropropane; glucose 6-phosphate; 2-phosphoglyceric acid; 3-phosphoglyceric acid; and hygrine.

A comprehensive list of powder metallurgy patents to date, including a brief abstract for each invention, has been compiled by Raymond E. Jager and Rolla E. Pollard, of the National Bureau of Standards, and is now available as NBS Publication M184 (United States patents on powder metallurgy) from the Superintendent of Documents, Washington 25, D. C., at \$.30 per copy.

Make Plans for—

American Institute of Electrical Engineers, Pacific General Meeting, August 26-29, San Diego, California.

Mathematical Association of America, September 1-2, Yale University, New Haven, Connecticut.

Louis, Missouri.

American Astronomical Society, 77th Meeting, September 3-6, Dearborn Observatory, Evanston, Illinois.

First International Biometric Conference, September 5-6, Marine Biological Laboratory, Woods Hole, Massachusetts.

American Psychological Association, September 9-13, Detroit, Michigan.

American Roentgen Ray Society, September 14-19, Atlantic City, New Jersey.

National Meeting, September 15-19, New zorg. York City.

American Association for the Advancement of Science, 114th Meeting, December 26-31, Chicago, Illinois.

COMMENTS

by Readers

concern with the political side of the lands East Indies be brought under the conference between the Indonesian and supervision and control of UNESCO, Netherlands Governments deciding on which would insure continuation of the their future relations. These negotiations, high standards maintained in the decades however, also involve the status of the before the Japanese invasion. An exscientific institutions on Java and Su- pression of opinion in this matter, directed matra, which are of much more than toward our representatives on UNESCO, local significance. This is to be regretted, might give results. (F. W. Went, Califorsince it is generally admitted that the nia Institute of Technology, Pasadena.) direction of scientific work and its results have no national or political boundaries. This was typically shown in Java, where men from all nationalities have contributed to scientific biological knowledge of the tropics. Swiss (Hasskarl, Zollinger, Bernard, Vischer, Schweizer), German (Junghuhn, Rumphius), Danish (Jensen, Gandrup), Swedish (Booberg, Tengwall), American (Rands, Yampolski), Chinese (Tan Sin Hok, Tung), Indonesian, and Dutch scientists all contributed while being employed at government and private research institutes and experiment stations. Appointment to such positions was dictated Fourth International Cancer Re- not by political considerations but by search Congress, September 2-7, St. qualification for the job. This made the agricultural experiment stations in the Netherlands East Indies among the best in the world.

Recently, alarming news has come from Tava concerning these scientific institutions. Plans had been formulated to have all scientific services placed on a commonwealth basis. The Indonesians, however, have claimed complete control over them. This has been ceded to them by a preliminary Netherlands Government decree. Indonesians have been appointed as directors of the institutions, irrespective of their qualifications. Thus, a veterinarian has been named director American Chemical Society, 112th of the famous Botanic Gardens in Buiten-

> This is not scientific direction but political control, which nowhere in the world has produced scientifically significant results. Is it not time for us scientists to act and prevent renewal of methods which were so disastrous in Germany? It has been suggested that in 1916, but this publication was so deeply

The scientific world has no direct the scientific institutions in the Nether-

In the spring of 1946 I observed that many wild plants of Cornus florida in the vicinity of Ann Arbor, Michigan, which I remembered as having borne pure white blossoms formerly, now produced pink flowers. The pink tint usually was uniform over any one plant, but it ranged from the slightest blush to a deep pink from plant to plant. None was seen which was quite as deeply colored as the red variety of Cornus florida, but some were near it.

In the present season all these plants again formed white flowers, making it apparent that the weather of the spring of 1946, one of the driest on record for the region, was responsible for the change of color. Although I have no record of it, the amount of sunshine must have been much greater than usual. The combination of much light and little water may have caused a great increase in anthocyanin formation paralleling the familiar firing of the lower leaves of corn in hot, dry weather. (CARL D. LA RUE, Department of Botany, University of Michigan.)

Folliculinids are complex ciliated protozoans, very similar to the betterknown stentors. The stentors are found chiefly in fresh water; the folliculinids, mainly in marine and brackish water, although some have been recorded from fresh water in England, France, Switzerland, Canada, and Uruguay. Since they occur in so many remote points in all oceans, it is easy to assume that they will yet be found along the coasts of all lands.

That they occur in India was stated

buried in accounts of other animals that lonensis (Browne)" (Rec. Ind. Museum, I did not find mentioned in the literature it has only recently been exhumed by H. Calcutta, 1916, 12, 49-57). We quote from available to me, i.e. the remarkable Shrinivasa Rao, Deputy Fisheries Ad- Lloyd's detailed account the following structural resemblance between peniviser to the Government of India, who sentence—sole evidence of the occurrence cillin and glutathione. In fact, the thiacommunicated the facts to me.

Folliculinids fasten their dwellings to all sorts of inanimate and animate objects. Some seem to have uncanny ability to search out concealed places and may establish their dwellings within those abandoned by other small animals. Some the Indian Museum revealed nothing in glycine linked together by a (dimethyl)locate on the outside of hydroids, and it is the way of slides or material bearing upon methyl radical on the other side (Fig. 1). in association with the latter that they have been found in India.

the ocean separated themselves from hy-tion of the group Dr. Rao writes that he droids, like plants branching, and firmly has "no reason to doubt his identification fixed to objects of the ocean floor. Among of the infusorians he found on the hythese the genera called Tima, Eirene, and droids of Port Canning." Phortis are much alike, and even specialists have not agreed as to which ences to the occurrence of folliculinids name to use. MacCrady, the pioneer stu- in some corner of the world may remain dent of jellyfish in America, described a hidden in the vast literature. Should anyspecies of Phortis from Charleston, South one discover such hidden records, I would Carolina, and W. K. Brooks, in his studies greatly appreciate being guided to them. of jellyfish of Beaufort, North Carolina, (E. A. Andrews, The Johns Hopkins was able, in 1883, to rear the hydroid University, Baltimore, Maryland.) phase from this same rare jellyfish.

Another species of Phortis shines with exceptionally strong blue-green phosphorescence. In 1905 Browne took from the sea off Ceylon a jellyfish he named Eirene ceylonensis; however, Mayer, in his Jellyfish of the world, decided that this was really a Phortis—a conclusion also reached by N. Annandale when in 1915, as and cannot be used for the identification superintendent of the Indian Museum, he of species. In fact, the tendency among reared from this jellyfish the little hydroid mycologists today is to regard the he had discovered in 1906 and identified Sporotrichum pathogenic to man as one as Campanulina. The same sort of jelly- species. fish taken from the sea off Ceylon by moved from the sea though connected at tricha all have a common antigenic factor. SH group of cysteine. The glutamyl one point with the tidal waters of the rains probably further diluted the brack- burg.) ish water. From these little jelly-fish less than an inch in diameter were reared the Campanulina hydroids, scarcely visible to the naked eye. In this study the work of Annandale was continued by R. E. Lloyd, professor of biology at and C. J. Cavallito (Science, February 28, or other mechanisms important for the Medical College, Bengal, and their pp. 235-236) about the mode of action microbial reproduction. (E. FISCHER, combined results were published under of penicillin, I should like to call atten- Experimental Laboratory, S. A. Organa, the title "Hydrozoon Campanulina cey- tion to an interesting circumstance which Santiago, Chile.)

of folliculinids in India: "The hydroid zolidine ring of penicillin may be imfirst found at Port Canning was living in agined as resulting from a double ring association with the protozoan Folliculina closure between the β -methyl group of and this organism also occurred among cysteine and the amino group of glycine the colonies taken from the canal."

these folliculinids. Apparently Prof. Lloyd did not identify the species of folliculinid Many small jellyfish that swim free in he observed, but as to Lloyd's identifica-

It is possible that other casual refer-

The differentiation of the pathogenic species of Sporotrichum has always presented difficulties. It has been known since 1915 that carbohydrate fermentations, pigment formation, and production of chlamydospores are variable factors

Sixteen strains of Sporotrichum repre-Browne suddenly appeared in great num-senting examples of S. schenckii, S. bers in July 1915, more than 1,000 miles beurmanni, S. asteroides, and Rhinoaway, in a brackish canal near Calcutta, cladium equinum, originating in America, in the delta of the Ganges. The canal Europe, and South Africa, were studied. water had a salinity of but 1.0085, re- Extensive agglutination and absorption intervention of a dimethyl methane, duced to 15°C. In this canal, "far re- experiments showed that these Sporo- which would blockade irreversibly the

Hooghly," the jellyfish were no longer elsewhere. (H. I. Lurie, South African different other acyl radicals in the diffound in September, when the monsoon Institute for Medical Research, Johannes- ferent classes of penicillin (pentanoyl,

> ing discussion between C. S. Leonard may think of the possibility of penicillin (Science, November 29, 1946, pp.501-502) competing with glutathione for enzymatic

on one side and between the SH group of Dr. Rao's search in the collections of cysteine and the α -methyl group of

Glutathione

Penicillin Fig. 1

From this point of view the terminal groups of penicillin would be characterized by a double ring formed between certain members of the open chains of the cysteyl-glycine radical through the Details of this work are being published radical of glutathione is replaced with heptanoyl, valeryl, phenylacetyl, etc.).

It would be too far-reaching to draw without experimental basis any con-With reference to the interest- clusion from this circumstance, but one