roduces a 'digest'—an organic fertilizer with special qualities resulting from the methane fermentation process. This fertilizer has less than 5% inert matter and contains important ingredients such as nitrogen, potassium, and phosphorus, that thus become available for plant growth—for which the three elements mentioned are, actually, essential. At the end of the process, some 90% of the matter can be re-used. Thus from 100 tonnes of average household refuse it is at present possible to produce 15 tonnes of gas and 40 tonnes of organic fertilizer.

The system also has indisputable environmental advantages, including the purifying of smoke with control of its ash and chloride content, absence of odour, and the small proportion of inert terminal residue for dumping (the 10–15% of metals and glass). In addition the Valorga system has economic advantages that are greatly appreciated by municipal officials: it is in fact compatible with other techniques, which it makes more economically efficient. The methanization unit, for example, can be added to a series of waste-disposal units before the dumping stage, and replaces the composting site—thus improving the efficiency of existing equipment. The process accordingly leads to augmented self-sufficiency in energy-use and to indirect activities which create jobs at the local level.

Valorga involves a series of innovations, including non-stop methanization at a high concentration which represents an internationally important technological advance. It was developed through an extensive research and development programme which was supported by interested public authorities and also involved the EEC and numerous financial and industrial partners.

The method has already proved its value on various sites in France. At La Buisse (Isère), for example, a full-scale pilot unit is in operation, while at Amiens a plant dealing with more than 100,000 tonnes of waste per year came into effect in April 1988. Other plants are being established, including one in Nîmes which, profiting from knowledge gained over the last five years, is expected to be the most modern of its kind. Besides well-advanced contacts with a good many European countries, negotiations are under way in Japan and the United States. Further details may be obtained from VALORGA, Z.I. de Vendargues, 5 rue de Massacan, B.P. 56, F 34740 Vendargues, France.

The Joseph W. Jones Ecological Research Center

The Robert W. Woodruff Foundation, Inc., has announced plans for a major new ecological research centre at Ichauway, a 28,000 acres' (11,340 ha) reserve in south-west Georgia, USA, praised by the US Nature Conservancy as a 'national treasure of biological diversity'. Ichauway, located in Baker County and containing what may be the largest remaining unbroken tract of Longleaf Pine (Pinus australis) upland forest and undisturbed wiregrass understory in the United States, will be preserved intact and dedicated to research and education in the ecological and conservation sciences.

Ichauway contains a number of exceptional natural communities and populations of at least thirty rare and endangered species. It includes 14 miles (22.4 km) of the Ichauway–Nochaway Creek, a blackwater stream, and 12 miles (c. 19 km) of the Flint River, a brownwater stream originating in the Georgia Piedmont region. Assembled in the late 1920s, Ichauway was the private shooting reserve of the late Robert W. Woodruff, longtime Chairman of the Coca-Cola Company and a noted philanthropist and outdoorsman.

The centre, to be known as the Joseph W. Jones Ecological Research Center, is being established as a self-guiding, independent research and educational institution. In addition to conducting basic and applied ecological research and monitoring relevant to the understanding of natural and managed ecosystems, the centre will attempt to establish and maintain long-term, experimental, and reference, studies of ecosystems; serve as a regional benchmark in the growing global network of monitoring stations for environmental quality; bridge basic research with applications and make this knowledge available to appropriate audiences; promote multidisciplinary research and exchange of knowledge; promote cooperative research and training activities with other institutions, agencies, and individuals; instruct students, agency personnel, conservation professionals, landowners, and decision-makers, in the understanding and management of natural and managed ecosystems; promote a broad awareness of the importance of ecological relations to human welfare; and develop a greater public concern for the conservation of biological resources and environmental quality.

Dr Gene E. Likens, Director of the Institute of Ecosystem Studies of The New York Botanical Garden, is chairing the Scientific Advisory Committee that will advise the Foundation on the new research centre. Also serving on the Committee are Dr Arthur W. Cooper (Head of the Department of Forestry at North Carolina State University), Dr Jerry F. Franklin (of the College of Forest Resources at the University of Washington), Dr Eugene P. Odum (Director Emeritus of the Institute of Ecology of the University of Georgia), and Dr Walter Rosene (a wildlife biologist from Gadsden, Alabama) who is considered to be the world's foremost living authority on the Bobwhite Quail (Colinus virginianus). The Foundation recently launched its search for a scientific director of the new research centre.

Core funding for establishment and operation of the Joseph W. Jones Ecological Research Center will come from the Robert W. Woodruff Foundation, Inc., one of the US South's major independent private foundations. The Foundation makes grants primarily in the areas of health care, education, the arts, child care, and youth services.

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