Flights of wild geese and wild duck, the former coming from the great Hungarian marshes, are frequent sights at the time of hunter's moon. Insect life includes a wealth of butterflies and the curious Yugoslav tiger moth, Cymbaciophora pudica, which produces a loud squeaking or clattering noise by its wings in flight. The caves of Dalmatia and Carinthia have long interested naturalists for their blind olm or cave newt, Proteus anguineus. The flora is rich in alpine flowers of great beauty. Pančic wrote a useful "Flora of Serbia", and recently Hayek compiled a new Balkan flora. It is an irony that one of its most recent students was Dr. Giuseppi, the Italian botanist and member of the Alpine Club. On his 1930 visit he found Geranium subcaulescens on Mount Koprevnia and Saxifraga montegrina, receiving the award of merit of the Royal Horticultural Society when introducing the former to British gardens. On Mount Cristen he found Ranunculus creatus, and in 1931 on Kerast he found R. Wettsteisii and Ardrosance Hedreantha, on Ljuetia, Viola Grisebachiana, W. B. Turrill, of Kew, also studied the Balkan flora during the War of 1914-18 and three times since. Good herbaria existed at Belgrade, Sofia and Trieste. Tournefort, Sibthorp, Clark, D'Urville and Grisebach collected in the area, which has a flora of some 6,500 species.

International Relations and Federalism

THE February 1941 issue of Union, the monthly forum of the New Commonwealth Society, includes a number of articles on post-war reconstruction and the development of international relations. Mr. Duncan Hall, in an address on "What are the hopes of Lasting Peace ?" asserts that only by a scientific understanding of the dynamic forces of human nature and human society, by a realistic education and a wise leadership, can we hope to speed up man's progress towards a lasting peace, based on the supremacy of reason and conscience. The problem is far more than one of finding the right institutions and making economic adjustments. It is essentially a problem of how to control the human forces, how to prevent uneven domestication, how to safeguard against mob situations that break down the conscience and reason of the individual and let loose his instinctive forces. Writing on "The Outline of a Long-Term Economic Plan", Mr. W. L. Fairweather urges that the task ahead of us is to raise the level of consumption all over the world, and that many of the controls necessary in war will be extended and developed and remain as a permanent feature of the economic Mr. Channing-Pearce's address to the system. Oxford Branch of Federal Union on January 4 on "The Federal Faith" is included, with its conception of federation as concerned not only with politics but also with sociology and economics.

The Wilkes Centenary

THE centenary of the Wilkes Exploring Expedition of the United States Navy, 1838-1842, was marked by a symposium on American polar exploration organized by the American Philosophical Society in

February of last year. The papers read on that occasion are now published (Proc. American Phil. Soc., 82, No. 5) and include some valuable contributions to polar geography. The expedition is best remembered for its antarctic landfalls, which have since been the subject of much controversy but mainly have been confirmed. The expedition had, however, a practical bias, actuated by the considerable American whaling industry in the Pacific at that time, and the scientific side was not too strong though valuable results were obtained not only in the antarctic but also in many surveys in Pacific islands and numerous biological collections. The greater part of the results were published by the authority of Congress, but the edition was small and many of the volumes are rare. In the present publication the history of the expedition and the story of the struggle to get the reports published are fully traced and there are valuable bibliographical records.

A most useful paper deals fully with the fishes collected by the expedition, a report which has not previously appeared. This is by Mr. H. W. Fowler. Another paper, by Commander F. W. Reichelder, discusses the contributions of the expedition to magnetism, gravity and meteorology. Prof. W. M. Hobbs treats of the geographical discoveries. Another series of papers deals with other aspects of American polar work. Of these may be noted one by Mr. W. E. Ekblaw on the arctic discoveries of De Haven, Kane and Hall and another by Mr. H. J. Lee on Peary's journeys in North Greenland. Two valuable and original papers are those by Prof. L. M. Could on the glaciers of Antarctica, which surveys all the glaciological problems, and one by Mr. V. Stefansson in which, with his customary bold conception, he advocates a ten-year programme of arctic studies to be centred in a number of stations, most of them on the pack-ice, to be established and maintained by air.

Early Man in Virginia

For some little time evidence has been accumulating which points to Bedford County, in southwestern Virginia, as a place of early settlement of stone-using aboriginal tribes of nomadic hunters. During proto-historic and early historic times, Siouian and Iroquoian tribes appear to have lived within the present bounds of the county; while the Cherokee in the earlier half of the nineteenth century still retained the memory of an old tradition that a Cherokee village once stood near the twin Peaks of Otter in the north-west of the county where it is crossed by the Blue Ridge. These peaks were formerly thought to be possibly among the highest of the northern continent; and it is believed that the region around had been occupied for many centuries by a succession of tribes of different stocks, ever since the time when nomadic bands first entered the wilderness. This belief has now received the support of recent discovery in the form of stone implements of an early type on a site, now known as the Mons site, which was revealed early in 1940 in road-making operations in the vicinity of the Peaks of Otter. In a description of the site and finds by David I.

Bushnell, jun. (Smithsonian Miscell. Collect., 99, 15; 1940) it is recorded that stone artefacts, fragments of steatite vessels and small bits of earthenware were exposed during removal of the top soil. Although some specimens were obviously older than others, no determination of age was possible in the absence of stratification. Nor was it possible to mark the extent of the settlement; but quantities of flakes of various types and fractured pebbles indicated the existence of a workshop. The types of artefact included flake-knives and scrapers, projectile points, several forms of edged implements, axe-like implements, hammerstones and possibly pestles. Two Folsom points have been found on the site mingled with the other material.

This is the first occasion, so far as is known, on which the Folsom point has been found in the eastern States in association with other material or on a settlement site, though Folsom points of the Eastern type, which is not identical in all details with that of the south-western States, have been found sporadically in Virginia and elsewhere. The specimens from the Mons site may be regarded as clinching the argument for an eastward extension of Folsom man associated with an evolving industry, conditioned at times by the necessary employment of a refractory That the nature of the stone and not material. ignorance of the characteristic technique is responsible for the absence of the groove in the chert points from the Mons site is shown by the occurrence there of flakes of jasper, such as would be produced in the manufacture of a typical point of that material, which has been found no more than two miles away.

Agricultural System of the Argentine

THE Imperial Bureau of Pastures and Forage Crops, Aberystwyth, has recently published a bulletin on "The Grasslands of the Argentine and Patagonia" (Bull. 30. 2s. 9d.). The author, W. Davis, has himself made an extensive tour of South America, and his account contains much of interest to the general reader as well as to the grassland specialist. Patagonia is chiefly a sheep ranching country, carrying a vegetation of open tussock grassland in the south, and shrub steppe in the central and northern regions. In the Argentine proper, cattle are more important than sheep and, compared with Patagonia, farming is much more intensive. As a result, the native flora has been largely replaced by exotic species of both grasses and legumes.

One of the most interesting features of this intensive farming is the practice of fattening cattle on lucerne in the La Plata region. The temporary ley is the basis of this form of husbandry, together with the use of cereal crops for out-of-season grazing. Much of the land is held by companies and by individuals who are fattening cattle on large holdings (*Estancias*), and is worked on a share farming system. The farmer cultivates and crops the land, sharing the crop with the landowner on an agreed basis. After a run of cereal crops, it is a condition that the land must be laid down to lucerne, at which juncture the farmer moves on to another holding, and the owner receives his land back carrying the requisite crop for his cattle. It is suggested that a modification of this system might profitably be used in parts of Great Britain. The bulletin concludes with an interesting account of the *frigorifico* at. Buenos Aires, where killing of the cattle and utilization of every part of the carcasses are carried out in a most efficient manner.

The Nigerian Forester

THE idea of issuing a journal in Nigeria or for West Africa generally on the lines of the Indian Forester was mooted several years ago. Last year saw a realization when two numbers of the Nigerian Forester were published in July and November. The editor appears to be somewhat diffident about the appearance of a new publication in war-time. The paper devoted to its publication, however, is very far from being wasted, for some of the articles appearing in the first number are both timely and of interest. With one exception, where the exotic trees of the Cameroons are dealt with by D. R. Rosevear, the articles in the first number deal with either Northern or Southern Nigeria and present a wide variety of problems. In the second number, in addition to some general articles such as "Termites and Soil Fertility", "Work in the Veterinary Department, Nigeria", and "Some Applications of Grassland Ecology", subjects such as "The Gold Coast Timber Industry" and "First Impressions of Forestry in Sierra Leone" are dealt with.

Perhaps of wider interest, though somewhat sad, is the announcement that the *Nigerian Forester* is to be replaced by another publication on the same lines but with a wider purview, entitled *Farm and Forest*. This publication will be devoted to the discussion of land use problems in West Africa from the point of view not only of the forester but also of agricultural, veterinary and other workers interested in the manifold aspects of rural economy. It will thus have a wider public and should get over the financial difficulty which a specialized journal issued by a small Government Department always has to face.

Underground Gasification of Coal in the U.S.S.R.

THE "Russia Today" Press Service has issued a statement of the progress of work on this problem during the last few years in the U.S.S.R. It is recalled that Mendeléeff envisaged this method of fuel treatment, and about a generation ago Sir William Ramsay suggested the initiation of research thereon in Great Britain. In the U.S.S.R., however, the first practical work was begun in 1933 on the gasification of the coal in the seam. This is reached by two shafts connected by a tunnel cut through the seam itself. The coal is gasified by a blast of air or oxygen and steam blown down one shaft while the hot gas produced is collected from the up-cast shaft. This method necessitates the labour of miners to sink the shafts and to tunnel the seam before gasification can begin. In a new installation in the Donetz coalfield, the seam will be reached by bore holes so that no underground work will be necessary. Last