

wards projected. It is found that an apparently continuous flow of the image on the screen can be obtained if about seven frames are exposed for each section. The camera is mounted between the microscope and a paper screen, sharp focus of the former being secured by exposing a number of frames at recorded settings of the fine adjustment; the camera is then swung out of the optical axis and the image brought to a sharp focus on the screen by means of a supplementary lens. The screen is now used to secure orientation and focus for each successive section, the camera being swung into the optical axis when a suitable adjustment has been obtained. Though much difficulty is at present occasioned through the distortion of successive sections during mounting, the new technique will prove a considerable aid both in teaching and in research.

#### Development of International Law

THE *New Commonwealth* (monthly, published at Mowbray House, Norfolk Street, Strand, W.C.2., price 6d.), the first issue of which has recently appeared, is the organ of a new international society formed to advocate the establishment of a world system of law and order. If "the common sense of all" is to "hold a fretful realm in awe", effective provision must be made for the administration of international justice, and this can be achieved only, in the new society's view, by establishing: (1) an international tribunal, to deal with all disputes threatening the peace of the world which do not at present come within the purview of the Permanent Court of International Justice; and (2) an international police force as the sanction of international law and a guarantee of security against aggression. On these two objectives the society proposes to focus and interest public opinion. As Sir Arthur Salter says in a letter to the editor, the times are dangerous and moral suasion alone cannot be relied upon to defeat the material forces of the world if these are all allowed to be harnessed to policies of evil. In an open letter signed by Norman Angell, Lord Cecil of Chelwood, the Archbishop of York, Sir Oliver Lodge, Prof. Gilbert Murray and sixteen other eminent citizens of nine of the principal countries of the world, the *New Commonwealth* is commended to all those who are interested in the development of the reign of law.

#### Production and Employment

IN a pamphlet entitled "The Prevention of Future Economic World Crises", Herr Robert Bosch of the Bosch Company, Stuttgart, points out that the present world-wide business depression differs radically from previous ones which were caused principally, if not exclusively, by a preceding unhealthy boom. He argues that the troubles of the present depression are not due to over-efficiency of production methods as commonly supposed but rather to the inefficiency and backwardness of non-technical branches of the world's activities. Foreign relations are handicapped by antiquated political and mercantilist conceptions leading to armaments and tariffs while national prosperity is handicapped

by wasteful and inefficient administration and distribution and by antagonism between different groups of society. It is necessary to write off superfluous plant capacity so that the remaining factories may be run efficiently. Herr Bosch visualises a reduction of the yearly working time to 1800 hours or less in place of the present 2400 hours so as to guarantee some employment at fair compensation to every worker, but he recommends that the rigid eight-hour day should be replaced by more flexible arrangements so as to provide the maximum economy in the operation of particular factories.

#### Scientific Treatment of Delinquency

A NEW era in the investigation and treatment of crime was outlined at an inaugural meeting of the 'Institute for Scientific Treatment of Delinquency' held at University College, London, on November 29. The chairman, Dr. Edward Glover, pointed out that existing criminal and penal codes differ in no essential respect from the behaviouristic codes spontaneously evolved by two-year old children. He emphasised the urgent need for centralisation and co-ordination of effort at present made by small independent organisations. In his opinion any research on the subject should be conducted in an attitude of complete detachment from preconceived views as to desirability. The need for such an Institute was emphasised by a number of speakers. Amongst these, Lord Feversham dealt with the problem from the point of view of adequate probationary handling. Drs. Hadfield, Rees and Emanuel Miller recounted medico-psychological experience of handling delinquents at various clinics and welfare centres. The points of view of general science, ethics and politics were presented by Prof. Winifred Cullis, Canon Donaldson and W. J. Brown respectively. The Institute's immediate plans for co-ordination research, treatment and technical instruction were then outlined by Dr. Glover. It is hoped that within a short time a reasoned report on the present system of criminological work may be put before the various Government departments concerned. All communications should be addressed to the honorary secretary of the Institute, 56 Grosvenor Street, London, W.1.

#### The Study of an Oilfield

SOME observations on this subject were made by Mr. J. W. Weil in a paper read before the Institution of Petroleum Technologists on October 11. The paper was perhaps timely as representing the case for petroleum geology taking its logical place in the systematic scheme of oil production. Latterly there has been a decided tendency to interpret underground reservoir conditions—even geological data—on the basis of such functions as flowing pressures, oil and gas measurements, gas-oil ratios and other physical determinations which have been advanced as part of the standard technique of production engineering. The author pleads, and rightly so, for a thorough geological investigation as precedent to oilfield development and, in this connexion, he stresses the necessity of adequate study of stratigraphy, structure, factors influencing the accumula-