## LETTERS TO THE EDITOR.

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The Perkin Jubilee and Chemical Industries.

At the meeting held at the Mansion House on February 26, with the Lord Mayor in the chair, many men of position and influence in the scientific world met to do honour to Dr. W. H. Perkin, and to agree to celebrate the jubilee of his discovery of the first coal-tar colour. Whilst all felt not only the importance, whether from a purely scientific or from an industrial point of view, of this discovery, and whilst they all applauded Perkin's researches in other branches of science and his modest and retiring bearing throughout, the fact could not be lost sight of that although England was the country in which the coal-tar industry was founded, it had practically, since those days, passed out of our hands into those of the Germans. cause of this, I remarked, was not due to any want of knowledge or power on the part of Dr. Perkin himself, but rather to the absence of appreciation by capitalists and others engaged in industry of the importance of scientific method, or, in one word, to English Philistinism, the result being that the successful prosecution of a new industry the very existence of which depends on high scientific attainment was impossible. In corroboration of this opinion, which was also expressed in an excellent article in the *Times* a few days before the meeting, I ventured to direct attention to the fact that, being at that time (fifty years ago) engaged in building up a chemical school at Owens College, I knew three talented young German chemists whose names have since become watchwords in Germany (Caro, Martius, and Pauli) who were then employed in chemical works in Manchester and the neighbourhood. These men were intimately acquainted with the colour industry, both in theory and practice, so far as it had then advanced, and were perfectly capable, as was afterwards proved, of carrying it on successfully. Had they been supported by men of financial light and leading in Lancashire the industry might have flourished in this country. Not, however, finding the necessary support here, they returned to Germany, where they became the leading members of the great colour works at Ludwigshafen, Höchst, and Berlin.

But the Germans, not content with having secured an industry the value of which is reckoned at 50,000l. annually, are preparing for future attacks. On the very day of the Perkin meeting I received a letter from my friend Dr. Hagen, the director of the Physikalische Reichsanstalt in Charlottenburg, in which he informs me of the determination to found a corresponding Anstalt for chemistry, and in the last number of the Berichte I find a statement made by the committee of the German Chemical Society in support of this proposal. In this they point out, in the first place, that the due development of chemistry, influencing as it does so powerfully national life, cannot be ensured by individual effort, and that the establishment of a Reichsanstalt for chemistry is for this purpose necessary. In the second place, they proceed to indicate a large number of questions requiring solution which can only be satisfactorily answered by long-continued research. They conclude by the remark that such an institution must be of a national character, inasmuch as the subjects dealt with are of national importance, influencing the welfare and progress of the country.

Here we have a true trumpet call. Will England answer to it or will she otherwise make up her mind again to take a second place? In his admirable letter on "Science and the Industries" in the *Times* of Saturday, March 3, Prof. Silvanus Thompson points out that the electrical industry, and that of the manufacture of steel, are likely to fall, if they have not already fallen, into the hands of Germany and America, and insists, as many of us have been doing for the last twenty years, on the necessity of our commercial and educational leaders becoming aware of the absolutely vital nature of the bearing of scientific research on industrial prosperity. This conclusion is emphasised in a letter printed in the *Times* of March 6 from Sir Joseph Lawrence, in which he urges the plea that English manufacturers are too poor and too closely run by competition to be able to afford scientific leading! This is indeed an appeal ad misericordiam!

The long and the short of it is that the Germans, and the Americans I may add, see this, and are strenuously working the principle into practice, whilst we remain "blind leading the blind." When will our eyes be opened? HENRY E. ROSCOE.

## Cooperation between Scientific Libraries.

Dr. Bather's letter in your issue of March 1 is one which deserves the hearty support of all scientific workers, in the United Kingdom at least. I have long felt that the whole of the literature indexed in the International Catalogue ought to be available for reference in some one locality, and preferably in London. In my address as president of the Chemical Society in 1894, foreshadowing the time when our meeting-room would be too small, I ventured to point out that "This is a difficulty that threatens to oppress all the Burlington House societies, and must become more pressing as the importance of bringing all societies having cognate aims into juxtaposition is realised. Perhaps some day our friends and neighbours the artists will have found quarters elsewhere more suited for the display of their works-for they appear already to have far outgrown the space at their disposal, and to be therefore obliged to impose undesirable limitations on exhibitors; when this occurs, it should be possible to find accommodation more adequate to the needs of science and fit presentment of its Imperial importance" (Chem. Soc.

Trans., 1894, 358).

Since then, the University of London has vacated the portion of Burlington House in which it long had its quarters, and the Royal Society has let slip a golden opportunity of securing these rooms for its own use, and at the same time of affording to other cognate societies—including the British Association—the increased accommodation they so much need. The quad. roofed in would make a magnificent reading-room. Sad experience teaches me that there is little hope in this country that those who are engaged in scientific work will consent to work together for some serious common purpose: apparently every little show must be run separately; but if they could be per-suaded—if the Royal Society would for once have courage and lead-much might be done to further a project such as Dr. Bather advocates and bring it to a practical issue at no distant date.

Henry E. Armstrong.

THE letter of Dr. Bather on the above subject in NATURE of March 1 (p. 413) is of much interest.

My experience in the preparation of the Royal Society Catalogue of Scientific Papers fully confirms the statements of Dr. Bather and of Dr. Muir, to whose paper he refers, as to the inconveniences arising from want of coordination between different libraries.

When we were commencing the indexing of the scientific papers from 1884 to 1900, it was necessary to ascertain the names of new serials that had come into existence since 1883, and also to take note of the serials that had been omitted from the twelve volumes of the Catalogue already published. Members of our staff were sent to some of the scientific libraries in London, and a list was thus obtained containing more than 1400 serials of various degrees of importance. Many of these were, of course, unsuitable for our purpose; a large number, however, were incomplete, single volumes and sometimes single parts only being available. These separate portions had probably come to the various libraries as specimens, or for the purpose of obtaining exchanges; and if there had been a general agreement between the libraries of London, arrangements might have been made to maintain such serials complete in one or other of the libraries. If a joint handlist, as suggested by Dr. Bather, had been in existence, much time expended by us in searching for these serials would have been saved.

A few days ago I heard that the Royal Society of Edinburgh is engaged in considering a scheme of cooperation amongst the principal scientific libraries of Edinburgh and Glasgow, and that a complete list of scientific serials in these libraries is to be compiled. It would be of great advantage if a similar scheme could be carried out in