AT EXHIBITION

TORCHLIGHT PARADE

OF PIPERS

FROM OUR CORRESPONDENT

Yesterday was Scotland's day at the

Empire Exhibition, and in spite of

wretched weather conditions the occa-

sion was loyally celebrated. The exhibi-

followed in the late afternoon

GLASGOW, SEPT. 25

SIR W. BRAGG AT SCOTLAND'S DAY TRIPLE SHREWSBURY

NEW LABORATORIES **OPENED**

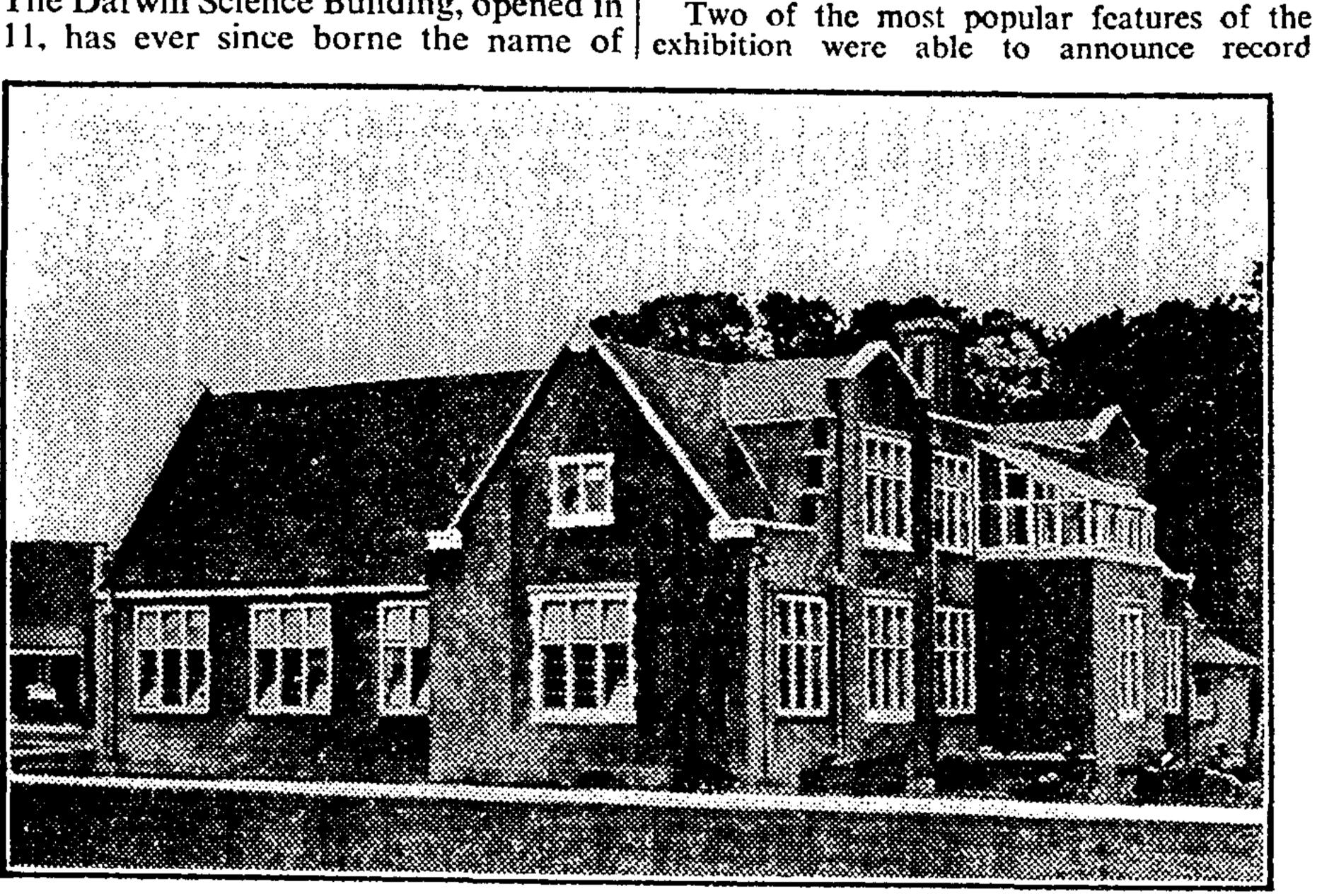
THE DARWIN TRADITION

FROM OUR SPECIAL CORRESPONDENT

SHREWSBURY, SEPT. 25 In the register of Shrewsbury School

covering the period 1798-1836—the school was founded in 1552 under a charter of Edward VI—there appears in the handwriting of the then headmaster, Dr. Samuel Butler, an entry begun in 1818:— "Charles Darwin, son of Dr. Darwin, of Shrewsbury. Age 9. Left School Midsummer, 1825." As a boy Darwin worked at chemistry in a rough laboratory fitted up in the tool house at his home in Shrewsbury, and this fact brought for him at school the nickname "Gas." The Darwin Science Building, opened in

1911, has ever since borne the name of



the day.

the famous Old Salopian, and to-day his patronage for any single day. The Tower of memory was further honoured when new Empire, although visibility was poor,

The new science buildings and laboratories at Shrewsbury School

which were opened on Saturday.

science laboratories, formally declared open by Sir William Bragg, president of the Royal Society, were dedicated "in thankful commemoration of the life and work of Charles Darwin." The two gables of the new building bear respectively the Darwin coat-of-arms and that of the school. Many members of the Darwin family attended to-day's ceremony. After L. M. MINFORD, head of the school, had delivered an oration in Latin extending to Sir William Bragg a welcome on behalf of the

school, the headmaster, Mr. H. H. HARDY,

spoke of the part played by Shrewsbury School

in developing and shaping the mind of Charles Darwin. While it was possible at that time to leave without learning anything of science, today every boy had some acquaintance with it, and during the last five or six years the number of medical students particularly preparing for their future work had doubled and quadrupled. Shrewsbury was not turning from its great tradition of classical education to science, but it was their business to produce educated men of all kinds, educated scientists among them. SIR WILLIAM BRAGG said that the classical tradition could not receive its fulfilment except in conjunction with the study of the natural knowledge. He referred to the limited world when men were dependent on their senses unaided, and the tremendous step forward when the first instruments were made which increased

These presented a newer world and altered our lives, the microscope and the telescope opening up regions of minute objects and regions of space apparently illimitable—a hitherto unseen world. It was incumbent on us to know what was in that greater world. Continuing, Sir William Bragg spoke of what science had done and was doing for the production of food and agricultural questions generally, the method of transport of food from one country to another; and travel by air, land, and sea. Roads were a matter of scientific research; and for industries such as steel, textiles, potteries, and rubber, for the means of communication, for matters of defence, and for

the investigation and detection of crime, un-

seen knowledge and aids to the senses were

APPLICATIONS OF SCIENCE

He gave instances to illustrate how "this

the powers of seeing, hearing, and observation.

new knowledge" helped to solve some problems. When visiting some lead works in Sheffield a fortnight ago he was told how the

being brought into service.

still in existence while present-day products had not the same lasting properties, and how the secret of the weakness in the manufacture

question of the manufacture of lead pipes had

been investigated, because Roman pipes were

was discovered. He himself was approached a few years ago to examine two parcels of soil and rocks from New Zealand, both apparently the same. Sheep in the district where one of the rocks was to be found thrived while those in the district where the other rock came from were dying. On examination it was found that in one sample there was an absence of cobalt, the one or two parts to a million generally to be found. An injection of a tablet of cobalt beneath the skin of the sheep sufficient to last a year met the case. During the War a little group sought to solve the problem of finding the position of German guns. At the firing of a gun there was a pulse from its mouth which spread away and became so feeble that it was difficult to detect. One of the group was lying in his bunk when a German aeroplane came over, and one of our own guns began to fire at it. Near the investigator's head was a knot-hole in the wood, and through it came a little puff of air every time the gun went off. He made a receptacle —a kind of box—with a little opening in it, and

put across the opening very fine wire which was kept red hot by electric current, and was chilled by the pulse of gunfire. By placing a lot of these receptacles in a row a few hundred yards apart for a mile and observing when the pulse struck each one in turn it was easy to establish where the gun was placed. As natural knowledge was used more and more the technician in a department of industry or administration became more important, and it became more essential for the administrator to be able to speak to him in and understand his technical language. There was a real need at the moment for men with the administrative gift who were able to talk with their technicians, but it was not easy to find these people for they did not know enough about natural knowledge and had not learned sufficient

science to fulfil the requirements. There was, however, more than the material side. "To find the right life and the best way to live it," he said, "it is necessary to take into account the fact that you are part of your friends, of your neighbours, and of your race, and the work you do must be for their benefit. You must put your own self to one side." He hoped the new science laboratories would tend to link together a classical tradition and a study of nature. RELICS OF DARWIN The new buildings contain complete new

physics and biology departments, the old Darwin building being given over to chemical

laboratories. Mr. John R. Smith, of Messrs. Munby and Smith, 9, Old Square, Lincoln's Inn. London, is the architect, and the builder responsible is Mr. T. E. Morris, of Messrs. T. Morris and Sons, Shrewsbury. An exhibition of relics of Charles Darwin at the school includes an atlas defaced by the scribble of the nine-year-old boy, a copy of the first issue of the first edition of "The Origin of Species" containing the famous reserence to the possibility of a polar bear developing by natural selection into an aquatic

animal—removed in the next issue because of

the ridicule poured on the writer's argument,

and a letter to R. Lawson Tait acknowledging

birthday greetings in February, 1882, in which

Darwin adds: "I feel a very old man and my

course is nearly run." He died in the following

April.

Arts had an attendance of 5,665. The Highland Clachan was also a strong magnet | and 17,046 persons passed through the turnstiles during the day. The total attendance at the exhibition to date is now 9,752,236, but better weather | voice saying, "Mis conditions will have to be experienced during the last month of its run if the figure of 12,000,000 aimed at is to be attained. The

display of tartan, a grand pipe band competition, and a torchlight procession headed by massed pipe bands were the main features of yesterday's programme. WOMEN AND THE KILT Free admission to the Clachan was offered to all male visitors wearing the kilt, but some controversy was caused by the decision of the

Clachan committee not to offer a similar con-

was no traditional authority for the wearing of the kilt by women. This, however, did not prevent many of the women visitors wearing kilted skirts, but they were obliged to pay the

dress was rather spoiled by the wearing of raincoats. During the afternoon 18 bands took part in the pipe band contest, which was divided into two grades. After the contest the massed pipe bands, numbering about 400 pipers, marched over the stretch of main avenues that has come to be known as the Royal Mile, the salute being taken by the Duke of Atholl. After darkness had fallen the massed bands again marched through the avenues accompanied by 100 kilted torchbearers. The playing of the pipes

evoked great enthusiasm among the crowds, who cheered again and again as the kilted players paraded past them. Messages of good wishes for the success of the day were received from Mr. Walter Elliot, Minister of Health, Colonel John Colville, Secretary of State for Scotland, and Mr. Malcolm MacDonald, Secretary of State for the Colonies, all of whom had hoped to be present but were detained in London by the inter-

national situation. Another large crowd is expected at the exhibition on Tuesday, when the King and Queen will bring Princess Elizabeth and Princess Margaret. Their Majesties will arrive by train from London at Ibrox Station at 10.30 a.m. on Tuesday and will be joined by the Princesses, who will travel from Balmoral to meet them. The Royal Family will spend two hours in the exhibition before proceeding to Clydebank for the launch of the Cunard White Star liner Queen Elizabeth.

Miss Marjorie Mason, Lancashire's Cotton

Ministers will preside over sessions of a health conference to be held in the exhibition on Friday. The conference is convened by the Scottish Health Services Campaign and will be attended by local government experts from all over Great Britain. Present arrangements are that the opening session will be presided over by Colonel Colville, and that Mr. Walter Elliot will take the chair at the afternoon session. FLARE PATH FOR EMPIRE **FLYING-BOATS**

SOUTHAMPTON, SEPT. 24 Just before dawn broke at Southampton to-day two Imperial Airways flyingboats, the Canopus and the Corinthian,

PRE-DAWN START FROM

SOUTHAMPTON BASE

FROM OUR CORRESPONDENT

Durban. Thus began pre-dawn flying

from Southampton on Empire services, and it is likely that the system will be developed. Flare buoys were laid in Southampton Water. The system of flares enables the aircraft to rise from the water during darkness. A line of six flares mounted on buoys and pointing into the wind marks an area of clear water midway across the estuary from which the flying-boats take off. The flares consist of two bulbs placed on top of a slender mast proecting from each float. The buoys are anchored, and the floats contain 12-volt

batteries for feeding the 18-watt amber-coloured bulbs. This colour is not likely to be confused with the navigation lights of shipping in Southampton Water. The flares are 200 yards apart, thus giving a flare path of 1,000 yards. At both ends of the line of flares and about 100 yards from the end buoys a motor-launch will be stationed. After every take-off the launches and flares remain in position until the possibility of the aircraft returning has passed. The buoys will then be hauled into launches and taken away until they are needed

again for the next landing and take-off. The

flare path can be quickly placed in position,

and later on may be used for night landings.

For the present the main use will be for taking off. MEMORIAL TO GRESFORD COLLIERY VICTIMS Widows and mothers of 15 men from Gresford Village who were among the 265 persons killed in the colliery disaster four years ago assembled in the twelfth-century parish church at Gresford yesterday when a bronze tablet to their memory was dedicated by the Archdeacon of Wrexham, the Ven. J. E. Williams, a former vicar of Gresford. The cost of the

tablet has been defrayed by the widows and

mothers themselves, and is the first to be

crected to any of the men.

IN D

MOTHE AND

FIANCÉE

The theory that

seeing her son c tion has been persistently dogged by bad riding accident, weather at the week-ends, and the number turned the gun of dry Saturdays since it was opened in young man's f May could be counted on the fingers of tragedy, took he one hand. Yesterday was no exception. at an inquest on A dull and threatening morning was more, Carrigans, The dead were evening by torrential rain, which in McClintock, 58, v normal circumstances would have cleared

her son, William the avenues of all but the most enthusiastic former second visitors. In spite of these conditions an Artillery; and Miss attendance of 178,731 was recorded for fiancée, of Sidmon occurred on Sati inquest was held home. The jury found f of unsound mind, shot herself, and t

> to have been marri had been in an in months since he re fracturing his spin point meeting. **FATHE** Giving evidence

> grief, also shot he

Mr. McClintock

McClintock, said Londonderry durin between mid-day to his wife, who fo been rather neurot her son's illness. less depressed. Af study, where his w was in the garden. left the study sho heard two shots. importance to the usual custom for pigeons." On going to the g to see his son wi

after him. A doct attracted 11,290 visitors, while the Palace of learned that his s afterwards one of found Mrs. McCli He had not seen morning, but when body he heard a s self." He went to Miss MacWorth sh Answering the thought his wife

attendance. On a

blood on the boy

thinking there had

sent for the two

mental breakdown. it seriously when said it would be the boy and then to **PASSEN**

While going do London Docks to

cession to women. Their view was that there sengers for Bueno Royal Mail moto was involved in a steamer Brier Ros usual 6d. for admission. The parade of tartan was slightly dama while the other ve damaged. The High journey to Tilbury The Brier Rose Southampton.





A perfe coat in town

out th comfort In "Pa other pattern sizes.

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AQUA