Instinct of Magpies

I HAVE read in NATURE (p. 428) your correspondent's letter relative to the instinct shown by magpies in Scotland as to the time for commencing their nest-building, which goes so far as to assume that this particularly cunning bird is capable of fixing a certain day in March (the Sunday after the 16th as I remember) as the invariable time to start the nest. And the writer observes that it would be well to ascertain if difference of latitude made any difference in the magpies' calculation. Now I live in the south-east of Ireland, a good many degrees south of your correspondent's Scotch magpies' locality, and it so happens that I have for the last twenty years observed the nest-building of magpies, who have enjoyed undisturbed possession, and who invariably build in the trees close to my house. It is curious that this colony (if a single pair may so be called) never increases—four young "mags" are brought out every year—but though I have observed congregations of ten or fourteen at times, the breeding birds never exceed two. The young birds never, like rooks, join a colony near their paternal nests, but are shipped off to new localities. I could mention many traits of my magpies' instinct—"their tricks and their manners"—but will confine myself to the nest-building. They never repair or reoccupy an old nest. A new one is constructed every year, and always, each year, in a different tree. Their nest-building is a serious labour, and takes a long time. So they begin early in February, selecting the sites often with much deliberation. work is entered on very early in the morning, and the "mags" seldom work in the daytime. About the end of March this domed nest with its two openings is finished, and the laying of eggs commenced. I am quite certain that the middle of March is not the time of beginning the nest, and this is important, as the claim set up for the magpies instinctive knowledge of dates therefore falls to the ground. I do not conceive it possible to prove that in this particular magpies have a more highly developed instinct than most other birds; all have their normal time of nesting, although there may be cases of abnormally late or early building; but as to the magpies or any other bird being able to fix dates exactly to the day, it is unproved and incredible.

Inisnag, Stonyford, Co. Kilkenny

JAMES GRAVES

Cats at Victoria Station

THAT the cats should repose comfortably amidst all the noise and vibration of a busy railway is not, after all, to be much wondered at. Animals much more defenceless and timid have found out that they need not be afraid of either the vibration or the trains, although they do not seem to have discovered that if they get in the way of the trains they are either maimed or killed. For instance, along the London and North-Western Railway between Manchester and Liverpool, which carries an enormously heavy traffic, rabbits burrow almost immediately beneath the ballast forming the permanent way, and I have often seen them sitting nearer to the train than most human beings would like to It is strange, however, that along this line of railway, which is one of the oldest in England, neither the rabbits nor the grouse and partridges have learnt that, though the train is not to be dreaded as a man is dreaded, it is usually fatal to those who are struck by it. All these creatures, as well as hares, pheasants, &c., are constantly being run over by passing trains. A hen grouse or partridge will frequently take her brood on to the railway, no doubt for the purpose of dusting themselves, and meet with this fate. The survivors, however, do not seem to take warning by the occurrence. The same may be said of the take warming by the occurrence. The same may be sufficiently flying. The number killed in this way is considerable. This is the The number killed in this way is considerable. This is the more remarkable because along this line wild animals have had such a lengthened experience of rail and wire that one would suppose it might have taught them wisdom.

ROOKE PENNINGTON

Wild Duck laying in Rook's Nest

WITH reference to Mr. Willmore's note in NATURE (p. 573), I have met with several instances in Lincolnshire of wild ducks nesting at a considerable height above the ground—once in an oak in a plantation in the old nest of a carrion crow—in ivy on a ruined wall, and on the top of a straw stack; once also on the roof of an old bean stack in the marches. I have known a wild duck nest on the ground amongst brambles and rough grass in the centre of a plantation a mile or more from pond or running stream.

John Cordeaux pond or running stream.

Junior Athenæum Club, April 21

Science and the Public Service

THE public are greatly indebted to your correspondent for drawing attention in NATURE of March 27 (p. 511) to the astounding proposal of the War Office to adopt the scheme of examination described by Lord Morley in the House of Lords on March 27—a scheme so absolutely refrogressive, and opposed to the recommendations of the Public School Commission of 1862 and of the Commission on Scientific Instruction in 1872 (composed of many eminent men and presided over by the Duke of Devonshire), and to the rapidly strengthening opinion in favour of education in science. The Government must be asked to of education in science. withdraw the scheme.

Whittington, Chesterfield, April 16

THE HONG KONG OBSERVATORY

I. T was found to be impossible to select a suitable site for the new Observatory near the city of Victoria, as the mountains shut off from view a large section of the southern sky, extending up to 25° of altitude. It is for the same reason impossible to determine the direction and velocity of the wind accurately near the town. Besides it is likely that the ferruginous rocks would deviate the plumbling not to marting the magnetic deviate the plumb-line, not to mention the magnetic

2. The Observatory was therefore built on the peninsula of Kaulung opposite. It stands on the top of Mount Elgin, a small hill built up of decomposed granite, rising abruptly on all sides from the surrounding level ground, and culminating in two humps distant over 300 feet from each other. The top of one of these is flat, and forms, roughly speaking, a circle of about 200 feet in diameter, and 110 feet above mean sea-level. Here the main building is situated, about 75 feet south-west of which the stands for the meteorological instruments, including the self-recording rain-gauge, are placed. It commands an unobstructed view of the sky, the tops of the hills rising only about seven degrees above the horizon. The magnetic hut is erected on the other prominence, the top of which was levelled, and forms a rectangle 36 feet by

3. The situation of the Observatory is rather secluded. It is surrounded by villas and summer residences; and the picturesque town rising opposite on the side of the steep mountain at a distance of a couple of miles, and the harbour, filled with the most bewildering mixture of menof-war and merchant ships belonging to nearly all nationalities, and literally swarming with boats and sampans, make up a charming view from the verandas of the Observatory, which, on the other hand, forms a prominent object as seen from the town and harbour.

4. I was appointed to take charge of the Observatory on March 2 last year, and when I arrived in the colony on July 28, the foundations of the building had been already laid. It was then erected under my superintendence, and I was allowed to arrange every detail to suit the requirements. By January 1 the main building was so far finished that I could take up my residence there, and start tri-diurnal meteorological observations, and issue a daily weather report, containing also information con-cerning the direction and force of wind indicated by the gradients, based on telegrams received from the Treaty Ports, Manilla, and Nagasaki. I receive a telegram from Wladivostock in addition. The observations are

made at 10 a.m. and at 4 p.m. on the previous day.
5. The main building of the Observatory is a rectangular block, 83 feet long and 45 feet wide (not including the transit-room), the architecture of which does credit to the Surveyor-General's department. The upper floor is devoted entirely to my quarters. The ground floor com-