The Crown Piece, by Mr. William Wyon, R.A., is a beautiful specimen of coin engraring, and erediable to the artiat and to the coontry; but I cannot help regretting that it country but be disfigered by a practice that " would be more hoñoured in the breach than the obserance:" the inscription in the old abbreviated Intin. Have we a language of our own ? is it "opinos, precise, expressive or are we well on an Engliwh Act of Pariliament, intended to be ueed by; and made for the English people? Or is the Latin language the rernacular idiom of the country? If oot, why employ it in the laws and on coins of the realm, which oughe to be knorna to, and duly valued and understond be every person, whether rich, or phor, learned, or illiterate? But eustorn, comanon-place projudice, govern or bood-wink ton many, even of the thínking portion of son masy. "The difuninn of' knowledge" has anciety: mucb. towards dispelling these clouds. inpproving the general intellect, and it will ultimately, I hope emon, enrrect the errora and absurdities here complained of. As the poet Crabbe han properly maid "the dend lan. k.lagen nught in be buried." J. Britton.

Joly $2.2,1347$

## EDUCATION POR CFVIL ENGINEERS.

Tnr objects which the College of Civil Engineers at Putney bas in view;-namely, "To provide for the risiog generation means of obtaining instruction in sound scieatific prin. ciples, while at the same time they are acquir-
ing that knowledge which practice alone can mpart," is so important to the great intereate of the country as to clalm our atteotion in - considerable degree; and lead ug, without pledzing ourselre: to the excellence of all the deteile of the plan adopted, to give publicity to the views of the directorn, as set forth in the endress of the Principal, referred to last week. No one can deny that, ""it io a wise and patriotic endearoar to provide, for those who wish to make engineering their profesuion, means of acquiring that sound knowledge withont which immense and valuable under. takings are exposed to be ruined by the rash sebemet of ignorant pretenders, or the mis. management of thome who depeod ouly upon mere blind tecbuieal rulet, without power to adnpt them to altered circurastances.
"Toknow bow a bridge, which is to carry a certain load, thould be constracted, is cucirely within the province of the scientific man. He takes the dats of the exprivence of
the past, and knowing the laves that govern the past, and knowing the laves that govern
the resintance of matter, he can say with confidence, ' this design, if carefully and faibfully -recuted, will unswer the purpone.' Tbere is no ronm for difference of opibiod. The lawe of mechanics admit of no douht. Ho is it then that we find architects and engineers contradicting one acother on the plainest point? on quentinos the calculation of which is eas s to any who thow the elements of alatistics ? How is it, that in casee of failure occurring so frequently, the authorities appealed to express opivions an widely different? I frmoly believe it to be because these authorities are onfy, io moot cascs, these of pracrical men, who kDnw not the laves of the results which ther have witnessed iu the course of their professional experience; and not knowiag these imomulable laws, they are apt to generalize falsely, and - ${ }^{2} p l y$ to particular inetance tbeir general role, Witho

I am alloding to eages which bare occurped within the last iwelve unnthas, and which to profestional men will readity asagest theraselves. and 1 think it a unatter for serious cou. sideration on the part of ber Majeaty's Go. rernment, whether or no engiacere to whom in now entrusted the livea, and linobs, and property of her Majcsty's subjects, slall be allowed to exercise their raluable and impormant pro-
fession withnut wome guarantee to the public, fhat those who underiake to do so have really had ouch education and preparation for their datien whall, enable thera to perforas them with advantage io the public, and a duc regard to the welfare of the country. A lime must come when an authorized board shall be appointed to examine persons who winh to exer. cise the profession, and then it muss be a sive mua nom, that the candidates shall shew an
inticmate acquaintance with the properties of matter, and the natural laws of mechanics. Such a knowledge it is our constant object to give in this college, but inasmuch as we know ithar koowledge without practice for not ready and available, we also place this latter mont important requisite withia reach of the stadent The experience of past ages of the civil engineer and the coatraetor is also brought before the students; they visit railways and public works in courne of conatruction, and then see the operations of whlch they read, and of which plane and explanations have been given; they see these operations being carried nut. Our system is not in glve theoretical instruction blone, but to give practical along with it. "He manafacture machinery; we have constantly pattern-makerg, fittert, vice-men, moulders, and smiths at work on tbe prenaises, executing work auch as may be seen in the more extensire workshops of our cbief eng? neers, and thereby we nupply them with the knowledge that aciual practice gires, while, at the same time, we alan give, what could not be done in a large manufnetory, constant instruc. tinn to each individus in the principles which guide these operatinos, and urge the atudents, by industrinus applicatinn, to master beth the practice and the principle, both the experi. mental facte and the theoretical trathn; and thus we endeavour to remedy that wherein we conceise that enyineering education has been hitherto defectire.

Objections are made in the college some. times on one ground, sometimes on another.

- You cannot make men engincers by mere theory," says one. No doubs of iti we do not pretend to do any nush thing; we wish to give theory in addition to practiee, not tbenry alone. We iajy, engineers ought to be then whnse operation are conducted on certain principlea. Those nperations should not be merely tenta. tive; we wish to supply the exact, positive, undeviating law's of mechanics; to give the student that confidence which science aloue can give, that his unakilful attempts may not be the cause of death, or mutilation, to othera. Engineers should be scientific men, as well as practical, and science is not acquired so easily as a scientific reputation is.
Again, when some of those who bave lueen educated within our walls have gone forth int the world, they bave been tried and found incompetent.

This is sery ponsible; we are not so fuolish 29. to think that mere residence in a college gives knowledge. I mast particularly request nur engineeriag friends to give me their atten. fion when I allude to the watter. Thry diould not judge the college by any of our aludente,
unless these latter bring cerificates of their unless these latter briog cerificates of their
enmpetency from the college authorities. I, for my part, emphatically and distinctly dis. claim any responsibility whatever for those who leave the college without cerlificates, countersigned by anyself, and, on the otber hand, I will renture to defy any engiaeer to convict a student of incompeteney who has been so recommended. I ani contideat that during my direction of the college, none Lave received ecrtificates without searching examio
nation, and I am fully convinced that they have been competent to undertake such work as might fairly be intrugted to young men, with certainty of giving satiafaction to their em. certininty of giving satiatachon
ployers.

## PARIS

Tun: Aloniteur des Architectes says that the church of Notre Dume has been furnished with lightning cooductors, and expresses a bape that this precaution will be adopted generally throughout France. - A model of a design fur a subterranean street between two leading ruilways is being exhibited at the Paluis Bourbon.- Same curious discoveries bave been ruade in lowering the Rue Frangois Miron, ineluding a number of tomba, somese in
plaster, belonging to the fifteenth and sixteenth plaster, belonging to the fifteenth and bixteenth
centurien, nod otbers in anne of much earlier date. The cupola of the Salle des Pas Perdus, at the Prahisde Jussice, is giving way. It appears cerlain that the evil io great, and itat very considerable works are necessary. It is attributed to the failure of the foundations in part. -A cocmplete renumbering of all the houses and buildings in Paris is th be immediately
commenced, they say; it is to be done by means commenced, they say; it is to be done by means
of plate of enamel, with white figures on a blue ground.

## RAILWAY JOTTINGS.

A prosisct of law to expel süluray director from the French Chambers bat been intre duced by M. Cremieus, and referred to a com initter.-A rerdict of $800 \%$. damages has been awarded by jury for injuries sustained by a Mr. Bromley and his wife ou the Eastere Counties line, on 18th July last. —The jur in their late rerdict agalast Fossey for the Wolverton collision, declared that two attend anto were neceasary at the siding, inoted of one alone. - It is but fair to record, howerer, that the W'olverton accident is said to be it first that has occurred, on that part of what now called the London and North- W eatern, for ninetcen jears, during which time 'the com pany, outuely, the London and North. Western have carried $35,000,000$ passeagers along thin line,-an enumeration, however, which looki a little like an attempt to throw dust into the putlic ere. The number of servants en. ployed by the same company is said to b 6,4l8, exclusire of plate-lagers. - Th Shefficld Iris describes an Itinerarium, of railway compase, to ensure more punctu ality on railways, and thua, also, to aid materially in the prevention of accidente It will at all timen shew to the engiaeer the apeed of the engine, the distance to the nez station, and the eract position on the line which will be useful at nighi, or in roghy weather. There is a chronometer, whicb will, of course, thew the railway time. It will also regiater on púper a description of ibe journey, that is, the time occupied at each atation and duriog the journey, and the exset epeed travelled daring every mile. Several trips on the Manchester and Leeds have tested its utility.The duily expenses of the Great Western in the present Parliament bure been eatimated at 4,5001 . i day, or 30,0001 . a week. -There. pairs required for the Dorchenter Tunnel, says the Hampshire Advertiser, turn out to be fus more formidable than was ai firat acknow. ledged, and the report of Mr, N‘Adam, as to the danger of the traffic being opened through it for considerable ume to come, has compelled a deference to the public asfety. The repairs are proceeding, tberefore, with due caution, and it will be a long period before the tunnel will be re-opened. - That part of the new bridge under the turopike road leading from. Dudley to Birmingham, near Dudley Castle, anys ibe Worcesser Journal, and under Whict the Oxford, Worcester, and WolverLumpton line will pass, has been repaired since it fell in, and the workmen are now employed in remuving the earth from off the sidea of the two ends of the bridge, on to the centre of the arch, for the purpose of causing it, by the additional weight, to opriag ioto its place. Whether it will bave the desired effect or cot, remuins to be seen; many persons codaidering it will not be safe, or to be relied on, till the whole bridge is pulled down and rebuils. Oa Thuraday week, a locomotive Post Office, with human and vilies machinery complete. nut dinpatched from Bristol, with the caaila in Fixeter.-1)" Thursday week, one of the arches of the viaduct now in course of construction at Detrsbury, un the Leeds and De.rsbury line, gave way and fell in, "owing," saye the Imalifur Guardian, " to some work twe 0 , who were working iti the night, baving inadeestently pus too great a weight of stone on one side of the arch, before the other side had got suffieiently bucked up; whieh caused the centres to give way, and the whole masa of masonry to be precipitated to the ground." The contractors, Messrs. Crawsber, how. ever, are said to bave "apared no expense in the erection of substantis I scaffolding and other preparations necesary for necuring the safety Messis. Fell and Jupling, contractors for the portion of Furness railway between Dalto and Lindale, broke ground three weeks agn. In this enntract there will be a tunnel 300 yarde in lengtb; fity excavators are at work on it.-One of the main arches of the high level bridge at Newcastle, suye the Gateshead Oiserver, is now complete, and has been exposed to a lest of extravagant severity, doubly exceeding any trial to which in can by ponsibility be put by the ordinary iratic of the railway.-TCe Tourteen hnurs
time distance between London and E.diaburgh, says the Scoltish Raitway Gazette, is now a great fact, as 'the thing has been done.'

