Safety at Sea and Lighthouses

Frank James

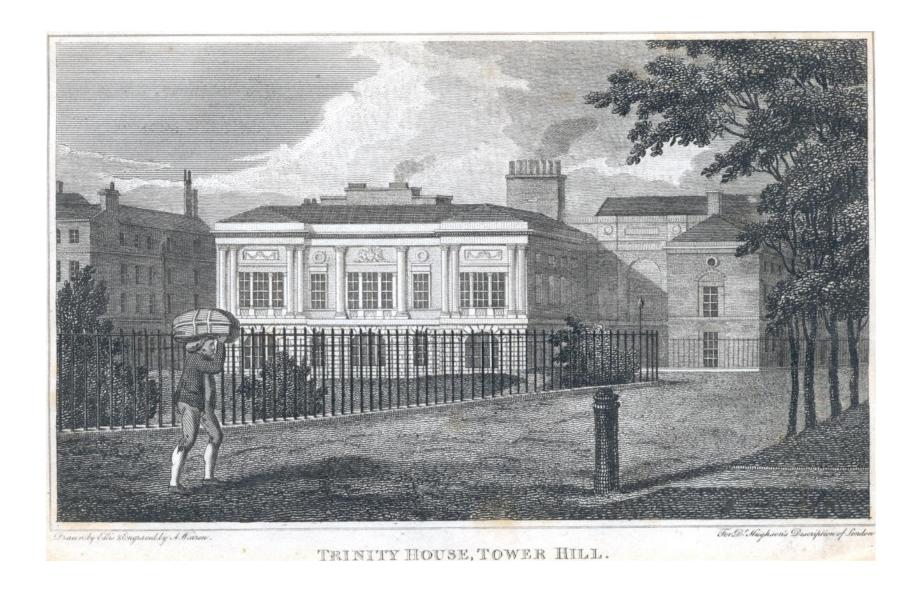


















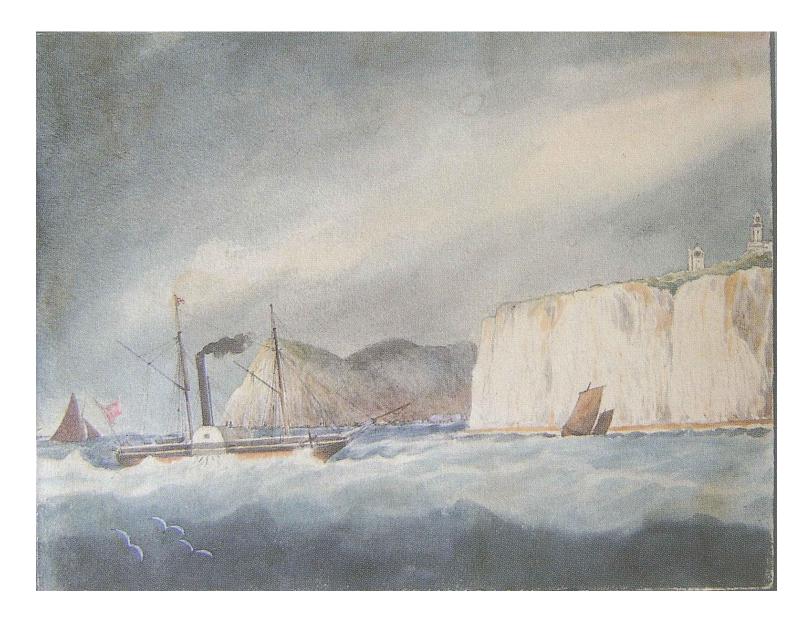














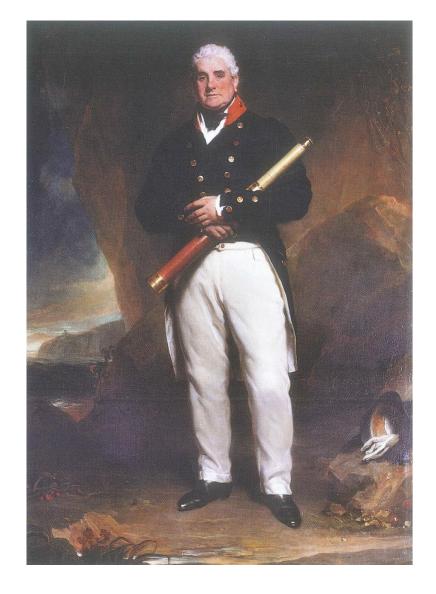








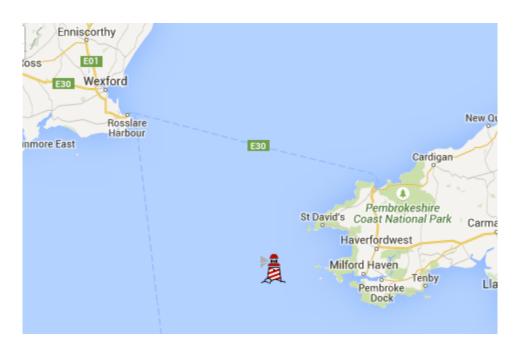
















- No. 70. -

AN ACCOUNT of the Proceeds of the Smalls Light, in the Years 1831 and 1832, together with the Amount of Commission allowed for Collecting; distinguishing each Port at which the Duties were collected.

	1831:				1832:			
NAMES of the								
PORTS.	Collected.	Rate per Cent.	of Commission.	PROCEEDS.	Collected.	Rate per Cent.	of Commission.	PROCEEDS.
Aberystwith Areadel Areadel Areadel Areadel Areadel Beston Briton Contention Contention Contention Contention Contention Contention Contention Briton	## 1	Rate per Cent. 20	AMOUNT of Commission. 2 8 8 0 7 8 10 1 2 6 8 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	# 1. 4 6 6 6 10 8 10 10 10 10 10 10 10 10 10 10 10 10 10	d. 1 21 21 22 22 22 22 22 22 22 22 22 22 2	Rate	AMOUNT of Commission 3 177 6 8 6 7 7 7 1 6 8 7 7 7 6 8 7 7 7 1 6 8 7 7 7 7 1 7 8 7 7 7 7	
Whitehaven	60 6 - 44 14 8 411 9 6	15 - - - 20	6 14 2 61 14 1	349 15 5	61 14 8 512 3 1 6 19 4 8 18 6	12 ½ 20	9 5 2 76 16 4 - 17 6 1 15 9	435 9 6 6 1 10 7 2 9
Yarmouth Youghall Claims of Act 59 Geo. 3, c. 54, &c.: London Outports remitting to London Liverpool Ontports remitting to Liverpool	83 10 9	2 Trin. Corp. 15 2 Trin. Corp. 15 5 Triu. Corp. 15 5 Triu. Corp. 15	2 15 10 12 11 11 - 2 3 - 17 2 - 3 2 1 4 1 81 18 4 233 9 6 14 18 - 42 9 7	71 7 10 4 14 10 6 13 11 1,323 - 6 240 14 2	101 4 6 17 15 11 { 9 7 -{ 1,288 6 9 { 189 11 5 {	2 Trin. Corp. 15 2 Trin. Corp. 15 5 Trin. Corp. 15 5 Trin. Corp.	15 3 8 - 7 1 2 13 5 - 3 8 1 8 - 64 8 - 183 11 9 9 9 6 27 - 3	86 - 10 14 15 5 7 15 4 1,040 6 10 153 1 8
£.	1	· · <u>·</u>	2,279 19 4	12,250 2 7	14-413 1 8	Poor C	2,245 1 7	12,168 - 1
Liverpool, 12 April 1834. A. S. Woodward, Rec' Gen' for the Smalls Light.						mus Light.		

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The Smalls Lighthouse is one of those Lights leased in 1778 by the Trinity House, most inconsiderately, for 99 years, at a nominal rent

Select Committee report, 1834

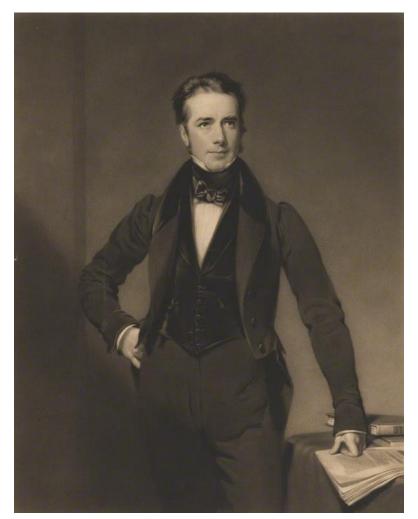




LIGITHOUSE, and Name of Proprietor or Lessee.	Remaining Term of Lease purchased.	Rate per Cent. for Money to purchase.	Amount of Purchase-money.	
Longships:—Henry P. Smith, Esq. Smalls:—Rev. A. H. Buchannan, Thomas P. Clarke. Winterton and Orford:—Lord Braybrooke. Harwich:—Lieutenant-general	9 ½ years	£. 6 6 4 ½ 4 ½	£. 40,696 170,468 37,896	
Rebow. Dungeness:—Thomas W. Coke, Esq. Hunstanton:—Frederick Lane,	12 years and 175 days	4 1	31,730 20,954 384	
Esq. Ditto - ditto	to October 1837. 11 # years, from October 1837.	4 3	1,221	
Tinmouth:—Mr. Fawke	In perpetuity	23 ½ years' purchase.	124,678	
Spurn:—J. B. B. Angel, Esq	- ditto	23 & years' purchase and award of jury.		
Skerries: - Morgan Jones, Esq.	- ditto	Award of jury.	444,984	
	Total Pouni	os £.	1,182,546	



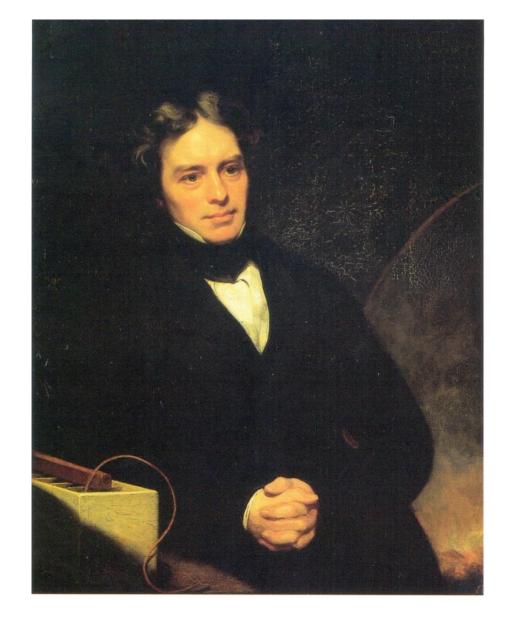
















The french lamp 4 wiches in dremeter - 4 wicks - his chaning and 1/2 with high of flame - tens 30 when in drawater Awangement easily seen 883/4 miles by maked eye then brighter than a common lamp of reflector at 15 miles - its sweepful application hom There maght to Disris Will Light- Houses Expense 10 to 1 - light bo to go lo 1 yount friend lamps In rotating wal propose I ball in place of 4 lumps then offense as 2/2 lo 1. get vato of interesty at 15-227.1 Leggard fourt. July stands moreared offere only on combustion not on house altogether - on about 'he of whole offener - may perhaps lipen it by restoring the man gamere - by use of melow for opygen - and if lans in place of uflitas then I hall for several lenses Refer to analogy between this and flower - and show superiorety were in primaple - at feel und flave as of phophorus - now concentrate the equation all the power of evelving light in combishin is amenticated in the Schon of the light on chlorine of hydrogen - on chloride of silver - aith yellowish to day light from foundamenance of yellow - governet blu our pared tool light from govern rays in it that are not in ail light . Make the great efferement





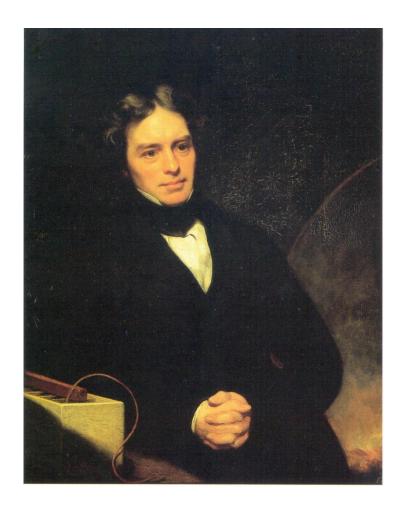
[The] Committee ... are ... of opinion that all the Public General Lighthouses ... should be placed under one Board, resident in London and conducted under one system of management.

Captain Drummond recommends a Board consisting of Four Persons; one to be a Seaman, and the Hydrographer of the Admiralty; another to be a scientific Chemist; a third a Member of the Royal Society [of London] and an Optician; and the fourth, the President or Vice-President of the Board of Trade.

Select Committee report, 1834







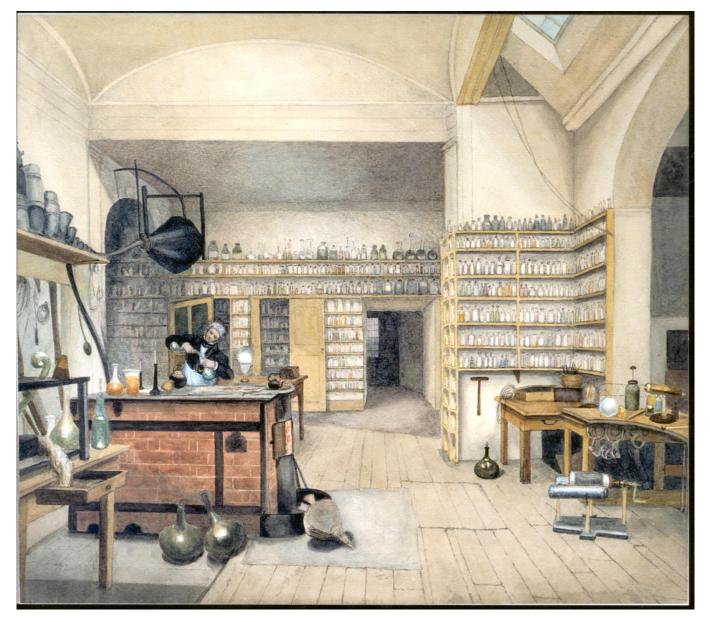








Gresham College 8 June 2015







Any 29th 1831. The on the production of lections from myon him do 2. Mare had an vin my made (off iron), was road and inches that of my of inthe in oftenal dementer Wound many only of opper wire down one half the could buy reported by him fahis - there were 3 lights of wire each about 24 " fel loge and they enter be wouth as one light or word as reported by the by treat with a trough each was insolate from the other . Will all this oils of the my A. on the thin odi but aparate by an whole was would over in two pries together amounty to about 60 pet in byth the dischir buy as with the former into this inti call B. Charged a battery of 10 for flats tomether ogener make the cout on B site one could and counciled its optimisher to a upper ani papy to adoption and just our a my nete nute (3 pl for wir way) her much the and of one of the Just on A all with bethy amountably a month affect on newther I willand of settle at hil is orginal poster . On breaking commoher of A with with Butter your a hotentime Made all the wies on A rile and and and unt our and from letter, Mosach the whole . Effect on much much Stranger than before the mith their had a my small fact of that which the war communicating buckly with the latting







01 17. 1831 50 The much did not remain deflete but returned but blow such time. The order of mohours were ween as in form ift - the when were in the douber insistent with from apply we the wheating much tinded to brewn paral. led with the existy magnet buy on the name outs of the were of plus of the same manne in the same linethan of When the Pshihus were made one logs help the effect was not " strong on the galamenter as hefre probably not half so strong I that it a heat on preces dumbered at the in to When only me of the Phelius was word I was bart pomerfull. harthy sins. It 61 " Made a sal of probab of him fall mend a paper sylander to that buy separated at the yes by Jugar the galianometer not in Sout but and person withing The Manual at gelvamentor: Could hereby indeed expet it because as mysel wholmed there was the part in about way bearing the amount back. Mor in wil. the part in advance and and is 1. But justed may be effectual with win in to place mode a grapust some attenting contact of law or by hely . Och 19. 1831 62 your hought batters of 12 troughts 10 for each himiters Theyperiment with black of out M. () comments is before with the "polumenter when better was much with an war the then my publi affects gabaneous . When contact



















"Scientific adviser to this Corporation in experiments on Light." at a Salary of £200 p. annum.

Jacob Herbert to Faraday, 5 February 1836, letter 885

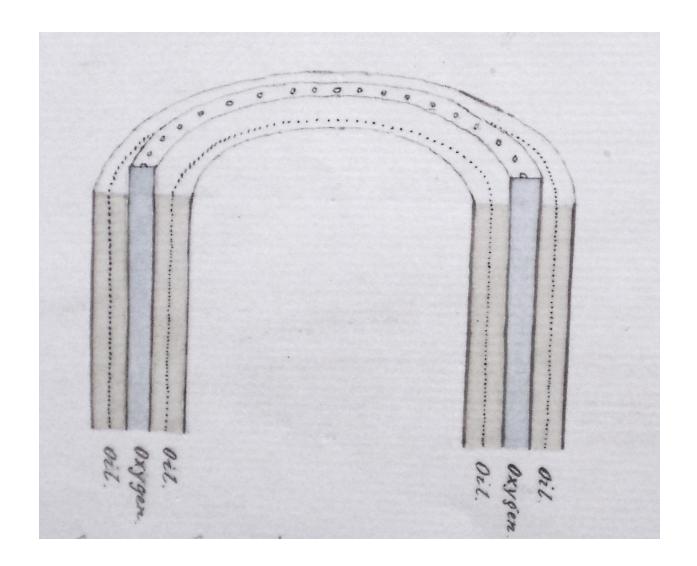














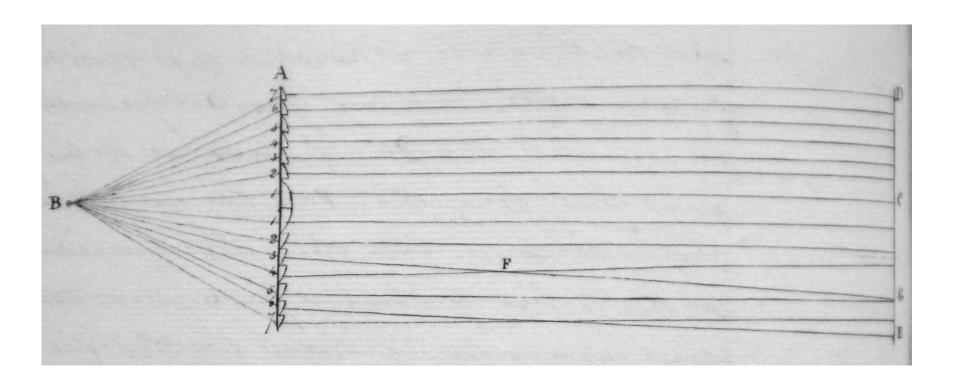






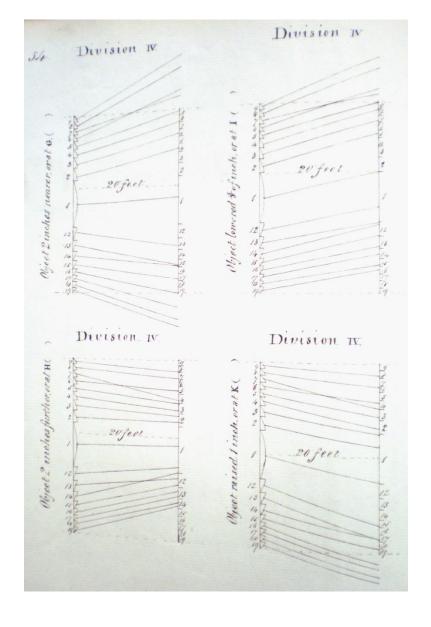






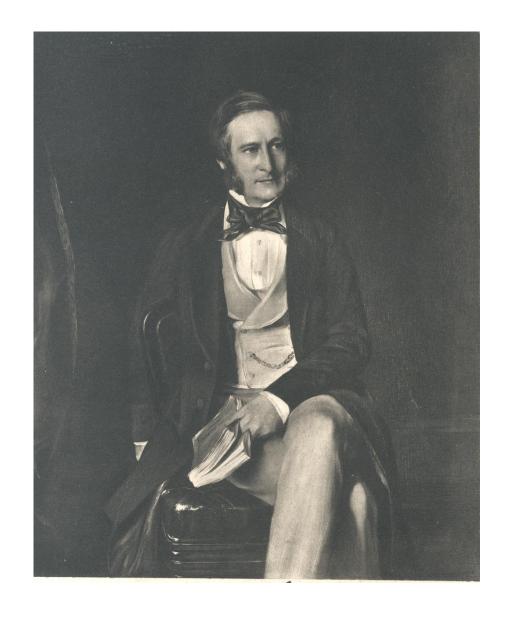
















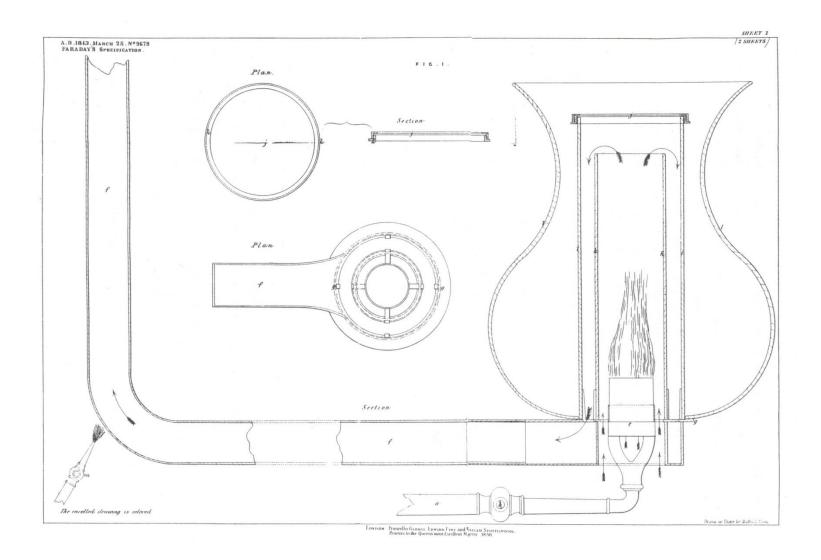








Gresham College 8 June 2015







The weather to day forms a comparison of Feby 1841 but pleasing to say no damp[.] Sir your Plan has driven the enemy out[.] I entertain no not the slightest fears of him ever coming again to cause such labour as you wittnessed on the 4th of Feby 1841[.]

George Neale to Faraday, 19 February 1843, letter 1473



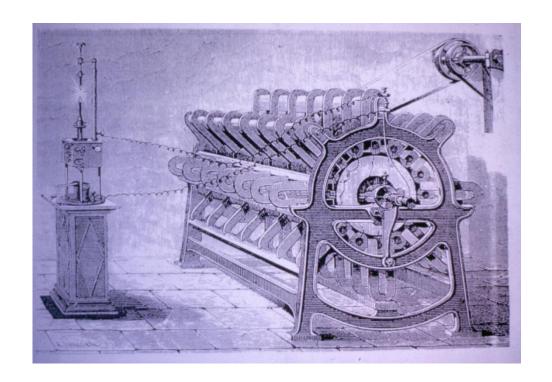


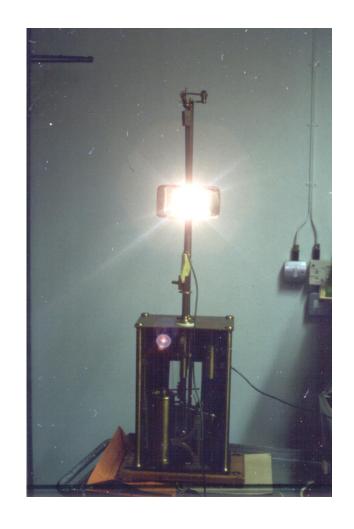
Much, therefore, as I desire to see the Electric light made available in lighthouses, I cannot recommend its adoption under present circumstances. There is no human arrangement that requires more regularity and certainty of service than a lighthouse. It is trusted by the Mariner as if it were a law of nature; and as the Sun sets so he expects that, with the same certainty, the lights will appear.

Faraday report to Trinity House, 15 August 1854, letter 2878































I went to Dover last Monday (the 13th instant); was caught in a snow storm between Ashford and Dover and nearly blocked up in the train; could not go to the lighthouse that night; and finding, next day, that the roads on the downs were snowed up, returned to London. On Friday I again went to Dover and proceeded by a fly that night, hoping to find the roads clear of snow; they were still blocked up towards the lighthouse, but by climbing over hedges, walls, and fields, I succeeded in getting there and making the necessary inquiries and observations.

Faraday report to Trinity House, 20 February 1860, letter 3728





Some delay has occurred in my reply to your letter but I have been seriously ill during the past cold season. Dr Bence Jones my (Medical friend) ascribes some of my loss of power to the severe attack of sea sickness which I had between Dover and Dungeness and forbids me from going to sea again[.]

Faraday to Peter Berthon, 15 February 1864, letter 4431







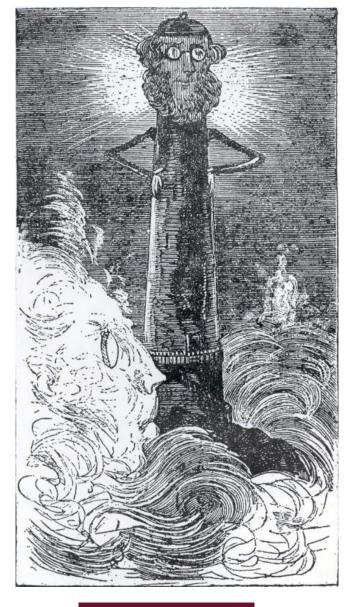
















The use of light to guide the mariner as he approaches land, or passes through intricate channels, has, with the advance of society and its ever increasing interests, caused such a necessity for means more and more perfect, as to tax to the utmost the powers of both the philosopher and the practical man, in the development of the principles concerned, and their efficient application.

Faraday lecture to Royal Institution, 9 March 1860







