



T H E

Edinburgh Gazette.

Published by Authority.

FROM TUESDAY, MARCH 29. TO FRIDAY, APRIL 1. 1803.

FROM THE LONDON GAZETTE.

WAR-OFFICE—March 26. 1803.
5th Royal Garrison Battalion—Captain Michael John Grace, from the 1st battalion, to be Captain.

BARRACKS.

Henry Strachey Amiel, Esq. Captain on half-pay of the 8th West India regiment, to be Barrack-Master in Great Britain, vice Winchester, resigned.

ORDNANCE-OFFICE—March 28.

Corps of Gunner-Drivers in the Royal Regiment of Artillery.

JOHN Villiers Jacob to be Lieutenant Commissary. Dated March 17. 1803.

John Bateman to be Lieutenant Commissary. Dated March 18. 1803.

Lieutenant Commissary Evan Heaton to be Captain Commissary. Dated March 24. 1803.

Commissions in the Banffshire Militia, signed by the Lord Lieutenant. Dated Dec. 24. 1802.

To be Lieutenant-Colonel—Alexander Duff, Esq.

To be Captain—Garden Duff, Esq.

To be Lieutenants—John Elmlicie and James Duff.

To be Ensign—John Gatherer.

Commissions in the Fifeshire Regiment of North British Militia, signed by the Lord Lieutenant. Dated March 11. 1803.

To be Lieutenants—Alexander Rutherford, Thomas Collier, James Mitchell, Archibald Goodier, James Wilkie, William Green, William Overtown, Adam Wilson, John Hedderick, and Alexander Anderson.

To be Quarter-Master—William Maine.

BANKRUPTS.

W. Hance, Southwark, Surry, merchant.

W. Stokes, Old Broad Street, London, merchant.

G. Sly, Wansled, Essex, stock-broker.

F. Gorge, Panteague, Monmouth, coal-merchant.

T. Hutcheon, Coleman Street, London, merchant.

R. Rome, Penryn, Cornwall, merchant.

J. Richmond, Skerton, Lancaster, gardener.

B. Acocks, Red Lion Square, Middlesex, coal merchant.

P. Norton, Whitechurch, Salop, innholder.

F. Bestow, Milk Street, London, hofier.

T. Bishop, Little East Cheap, London, carpenter.

J. N. Barkly, Budge Row, London, merchant.

D. Towney, jun. Sherborne, Dorset, victualler.

E. Brook, Wakefield, York, money-scrivener.

TO THE CREDITORS OF EWEN LIVINGSTON, Merchant, Greenock.
UPON 31st March last, the Lord Dunsinnan, officiating as Ordinary on the bills, in consequence of an application, at Ewen Livingston's instance, with concurrence of creditors to the extent required by law, sequestrated the estates, real and personal, of the said Ewen Livingston, and appointed his creditors to meet within the house of Archibald Turnbull, vintner in Greenock, on Friday the 8th of April curt. at one o'clock, for the purpose of chusing an interim factor; and to meet a second time, at the same place and hour, upon Friday the 6th day of May next, in order to elect a trustee or trustees upon the said sequestrated estate; all in terms of the statute—Of which intimation is hereby given to all concerned.

WESTMINSTER LIFE INSURANCE & ANNUITY OFFICE IN THE STRAND, AND IN CORNHILL, LONDON.

THIS Office was established in 1792, and insures the Lives of Persons desirous of securing independency to their Families, or to provide for them in any way agreeable to their wishes; to effect which, an Annual Premium will be received for the payment of a gross sum, or of an annuity, to become due and payable at the decease of a person insured, to his widow, children, or other representatives as he may appoint.

Insurances may be made for a variety of other purposes:—to provide for renewal of leases;—to secure sums paid for places or employments, or for the purchase of life estates;—or in aid of arrangements between debtor and creditor, &c. &c. which is explained further in the printed rates and conditions of Insurance, which may be had gratis, with the list of Directors as above, or of the Agents of the BRITISH FIRE OFFICE in the Country, who are appointed Agents for this Office.

Annuities are granted to commence immediately, and are payable at Michaelmas and Lady-day in every year, or by agreement, at either of the other quarter days.

The rates and conditions are also delivered gratis at their Office in Dame Street, Dublin; and by their Agents in the cities and large towns in Ireland.

Attendance is daily given for granting Insurances and Annuities, and a Board of Directors is held every Tuesday, at one o'clock, at their Office in the Strand, and on Thursday at the same hour, at their Office in Cornhill.

ROBERT SKELTON, Sec.

BRITISH FIRE OFFICE, STRAND AND CORNHILL, LONDON.

INSURANCES against Loss or Damage by FIRE continue to be made on Houses, Buildings, Manufactories, Goods and Merchandize, Ships, Vessels, Barges, and every kind of Craft, with their Freight, Cargoes, and Stores, in any Harbour, River, or on any Navigation, FARMING STOCK, and all other property, in any part of Great Britain and Ireland.

Persons who remain uninsured, will do well to reflect on the many calamities occasioned by FIRE; and of the dreadful consequences to many individuals: and as property, in general, has considerably increased in value, those already insured should reconsider their policies, and make such addition as prudence may suggest.

Annual payments due at LADY-DAY, must be made within Fifteen Days therefrom, or the benefit of the Policy will be lost; but insurance may be renewed after, without a new policy. Printed proposals and conditions of Insurance, and a list of the Directors, Trustees, &c. may be had gratis, and of the Agents in all the cities and principal towns in England, Scotland, and Wales.—For the convenience of their friends in Ireland, they have established an Office in Dame Street, Dublin, where, and of the Agents in the principal-cities and towns, proposals are also to be had gratis.

ROBERT SKELTON, Sec.

- Messrs MURRAY & BAXTER, Edinburgh.
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|--------------------------|--------------------------|
| Mr Dun. Campbell, jun. | P. Glasgow & Greenock. |
| Mr John Alston, and son | Glasgow. |
| Mr John Campbell, | Inveraray. |
| Mr James Dickson, | Hawick. |
| Mr Duncan McCallum, | Campbelltown. |
| Mr Robert Quayle | Castle Town (I. of Man.) |
| William Ireland, Esq. | Kirkcudbright. |
| Mess. Crosbie & Jardine, | Dumfries. |
| Mr Malcolm Stewart, | Perth. |
| Mr Peter Nicholson, | Elgin. |
| Mr Robert Patison, | Paisley. |
| Mr Thomas Duncan, | Aberdeen. |
| Mr John Baxter, | Dundee. |

ERRATUM in Gazette of 29th March.—Creditors of ARCHIBALD M'DUFF, to meet at Perth, on Wednesday 13th April, not Thursday 14th.

ERRATA in Gazette of 29th March.—Meeting of JOHN NAIRNE & Co.'s Creditors, for Friday the 2d April; say Friday the 1st of April; and day of meeting, for chusing trustee, Saturday 29th say Saturday 30th April.



LANDS IN ARGYLLSHIRE.

To be Sold by public roup, by warrant of the Court of Session, for the purpose of Redeeming the Land-Tax, within the Royal Exchange Coffeehouse, Edinburgh, upon Wednesday the 8th June next, at one o'clock afternoon.

THE FOUR Merk Land of ARDINTRIVE, in the Island of Kerrera, and District of Lorn, as presently possessed by Capt. Duncan McDougall, of a lease which expires at Whitsunday 1805.

Ardintrive is in the immediate vicinity of the populous village of Oban, forming one side of the Bay, in which the Harbour is situated; and is known to be one of the best farms in the island of Kerrera, and capable of great improvement. The farm is mostly surrounded with the sea, and the shores produce considerable quantities of ware.

There is a good modern House and Offices on the premises fit to accommodate a large family.

The tenant or ground officer will shew the lands.—And for further particulars apply to John Campbell, writer in Inveraray, or John Campbell, W. S. St James's Square, Edinburgh, in whose hands the title-deeds and articles of roup, are to be seen.

ACT OF PARLIAMENT.

Pursuant to an Order of the Right Honourable the Lords Spiritual and Temporal of the United Kingdoms of Great Britain and Ireland in Parliament assembled, which is dated 27th December 1802,

NOTICE is hereby given to all and every person or persons whatsoever, that the Lord President of the Court of Session, the Lord Justice Clerk, and the Lord Chief Baron of the Court of Exchequer, have appointed Wednesday the 20th day of April 1803, at twelve o'clock noon, within the Lord President's house,

in Park Place, Edinburgh, where they will be heard for their interest on a petition presented in the name and on behalf of WILLIAM ADAM, Esq. of Maryburgh, to the aforesaid Right Honourable the Lords Spiritual and Temporal of the United Kingdom of Great Britain and Ireland in Parliament assembled, praying for leave to bring in a Bill to enable the said William Adam to effectuate an Exchange of the LANDS of HALL WOODSTOUN, and others, lying in the County of Kincardine, held by him under an Entail made by the deceased ALEXANDER LITTLEJOHN of Woodstoun, in the year 1758; and also the residue of the Personal Estate of the said Alexander Littlejohn, for and with the LANDS of BLAIR-ADAM and others, and a competent Part of the LANDS of DECKENDAD and others, lying respectively in the Counties of Kinross and Fife—Of which all and every person or persons claiming to have any interest therein are hereby required to take notice accordingly.

TO THE CREDITORS OF

GEORGE GRAHAM, manufacturer in Glasgow.

ON application of the said George Graham, with concurrence of creditors to the extent required by law, the Lord Ordinary officiating on the bills, did, upon the 31st day of March last, sequestrate his whole real and personal estate; and appointed his creditors to meet at Glasgow, within the Black Bull Inn there, upon Tuesday the 5th current, at one o'clock afternoon, for the purpose of choosing an interim factor; and to meet again at the same place and hour, upon Tuesday the 3d day of May next, for the purpose of naming a trustee in terms of the statute.—Of all which, intimation is hereby given.

Edinburgh, 1st April, 1803.

TO THE CREDITORS OF
ROBERT MONTGOMERY, Spinner in
Johnston.

JOHAN KING, Cotton Manufacturer in Johnston, trustee on the sequestrated estate of Robert Montgomery, Cotton Spinner in Johnston, requests a general meeting of the Creditors, in the house of Robert Hodgert, vintner in Johnston, on Saturday the 23d day of April instant, at 12 o'clock noon, for the purpose of considering the propriety of selling the remaining outstanding debts by public roup, in terms of the statute.

TO THE CREDITORS OF

PATRICK MAXWELL, merchant in Perth.

JOHAN GREIG, merchant in Perth, trustee on the sequestrated estate of the said Patrick Maxwell, hereby intimates, that a second dividend of the bankrupt's funds is to be made on the 4th of May next, at 12 o'clock noon, when he requests the creditors to meet within the George Inn, Perth, to give directions with regard to a debt owing to the estate, by William Morrison, of Dundee. And in the meantime, status of the funds, with a scheme for the said second dividend, remain with the trustee, open for the creditors inspection.

The AVERAGE PRICE of BROWN or MUCOOVADO SUGAR, computed from the returns made for the week ending the 23d day of March 1803, is 39s. 7½d. per Cwt. exclusive of the duties of Customs paid or payable thereon on the importation thereof into Great Britain.

AVERAGE PRICES OF BRITISH CORN IN SCOTLAND;

By the Quarter of Eight WINCHESTER Bushels, and of OATMEAL per Boll of 128 lbs. SCOTCH TROY, of the four Weeks immediately preceding the 15th of March 1803.

Districts: COUNTIES.

- 23rd { Fife, Kinross, Clackmannan, Stirling, Linlithgow, Edinburgh, Haddington, Berwick, Roxburgh, Selkirk, Peebles, Dumfries, Wigton,
- 24th { Ayr, Kirkcudbright, Argyle, Dunbarton,
- 15th { Lanark, Renfrew, Bute, Orkney and Shetland, Caithness, Sutherland, Ross and Cromarty,
- 16th { Inverness, Nairn, Elgin, Banff, Aberdeen, Kincardine, Forfar, Perth,

Wheat.	Rye.	Barley.	Oats.	Beans.	Pease.	Oatmeal.	Beer or Big.
s. d.	s. d.	s. d.	s. d.	s. d.	s. d.	s. d.	s. d.
46 11		18 5	16 5	30 4	30 4	16 0	
		16 11	16 3	27 7	27 7	16 0	
45 0		21 3	18 1	32 9	32 9	17 4	
40 6		22 6	18 8	28 4	28 4	16 0	
47 8		21 2	19 9	31 2	31 1	16 7	
52 3		21 6	19 6	32 2	30 3	15 3	
47 6		20 11	18 10	25 3	27 5	15 6	
45 4		18 0	18 0		32 0	14 0	
49 1		19 1	16 1		28 11	13 6	
50 3		22 4	18 1		34 6	14 6	
						15 2	
52 0			17 4			15 4	
48 0		21 0	14 0			14 8	
50 0		27 0	17 0	34 0	34 0	17 4	18 0
		18 8	15 4			15 0	16 0
			19 4			20 0	
				33 11		19 1	
53 4		26 2	20 1	34 9	37 1	18 6	
43 6		29 4				19 4	
			20 0			19 0	23 6
	No Return.						
						20 0	22 0
45 1		31 7				17 1b	
41 8	28 10	28 10	17 8	28 10	28 10	16 0	
45 5	29 1	25 7	16 0	29 1	29 1	14 2	
40 10		19 1	14 0	27 10	27 10	15 0	17 2
			17 2			14 6	19 0
			17 7	29 0		15 0	17 7
		18 9	17 9			15 2	17 8
44 10		16 7		26 6	26 6	15 0	

AVERAGE OF SCOTLAND.

47 1 | 28 11 | 22 1 | 17 6 | 30 1 | 30 4 | 19 2 | 19 5 |

AVERAGE PRICES OF BRITISH CORN, by which EXPORTATION and BOUNTY are to be regulated.

	Wheat.	Rye.	Barley.	Oats.	Beans.	Pease.	Oatmeal.	Beer or Big.
	s. d.	s. d.	s. d.	s. d.	s. d.	s. d.	s. d.	s. d.
FIRST DISTRICT,	57 6	36 0	26 8	21 9	29 6	37 5	*33 3	
SECOND,	52 7	33 6	21 8	17 8	26 5	33 7	47 11	
THIRD,	53 3	37 3	21 2	17 2	27 3	31 9	*33 3	
FOURTH,	53 2	35 6	23 1	16 0	28 0	34 6	37 4	
FIFTH,	53 7	35 4	21 11	18 8	36 0	*36 10	13 4	
SIXTH,	65 7	51 7	28 7	22 4	*32 9	*36 10	17 9	
SEVENTH,	60 11	*36 11	26 2	20 11	39 10	52 0	17 4	
EIGHTH,	62 4	45 0	27 2	17 0	41 8	40 10	33 2	
NINTH,	55 9	*36 11	21 3	13 4	*32 9	*36 10	*33 3	
TENTH,	55 9	*36 11	22 10	18 2	31 0	32 11	*33 3	
ELEVENTH,	59 1	*36 11	21 8	16 0	*32 9	*36 10	*33 3	
TWELFTH,	55 0	*36 11	21 11	21 2	37 1	*36 10	*33 3	
THIRTEENTH,	47 10	*28 11	20 2	17 11	29 7	30 3	15 5	20 0
FOURTEENTH,	50 0	*28 11	22 2	15 11	34 0	34 0	15 7	19 4
FIFTEENTH,	48 5	*28 11	27 9	19 9	*34 4	37 1	19 2	23 6
SIXTEENTH,	43 6	28 11	23 5	16 8	28 3	28 0	15 10	18 7

N. B. The Figures against which Asterisks are placed are the General Average Prices of ENGLAND, except in the last four Districts, which are the General Average Prices of SCOTLAND.

Published by Authority of Parliament.

JOHN JAMES CATHERWOOD, Receiver of Corn Returns.

EDINBURGH—Printed by ROBERT ALLAN for the Proprietors.

THE UNIVERSITY OF CHICAGO

PHYSICS DEPARTMENT

PHYSICS 309

PROBLEM SET 10

1. A particle of mass m moves in a potential $V(x) = \frac{1}{2}kx^2$. The energy is E . Find the period of oscillation.

2. A particle of mass m moves in a potential $V(x) = \frac{1}{2}kx^2 + \frac{1}{4}bx^4$. Find the period of oscillation for small amplitudes.

3. A particle of mass m moves in a potential $V(x) = \frac{1}{2}kx^2 + \frac{1}{4}bx^4 + \frac{1}{6}cx^6$. Find the period of oscillation for small amplitudes.

4. A particle of mass m moves in a potential $V(x) = \frac{1}{2}kx^2 + \frac{1}{4}bx^4 + \frac{1}{6}cx^6 + \frac{1}{8}dx^8$. Find the period of oscillation for small amplitudes.