where he accompanied the British Commissioner on an elephant hunt. The party is now on its way home.'

The 'Geographical Journal' for July contains a valuable article on 'The Snow Peaks of Ruwenzori: their probable Positions and Heights,' by Lieutenant T. T. Behrens, R.E., a member of the recent Boundary Commission appointed to define the Anglo-German boundary south of Uganda. The position of the two tops of the highest summit visible from the camps of the Boundary Commission was trigonometrically fixed, and their height ascertained by six height determinations for each. "The heights given for these summits (16,625 ft. and 16,549 ft.) may be considered correct within ± 30 ft. at most. The lower point is 655 ft. south of, 256 ft. to the west of, and 76 ft. lower than, the main and more northern summit. The longitude is the same as that in the Hamburg Society's map.' *

These peaks lie a mile and a half west and slightly south of Duwoni, and Lieutenant Behrens gives the reasons which made him believe they were probably the culminating summits of the range. He adopts for them the name 'Kanyangungwe.'

ALPINE NOTES.

'The Alpine Guide.'—Copies of Vol. I. of the new edition of this work, price 12*s.* net, and of 'Hints and Notes, Practical and Scientific, for Travellers in the Alps' (being a new edition of the General Introduction), price 8*s.*, can be obtained from all booksellers, or from Messrs. Stanford, 12 Long Acre, W.C.

The Library Catalogue may be obtained, bound in cloth, on application to the Assistant Secretary, 23 Savile Row. Price 8*s.*; postage, 4*d.*

The Memorial to Charles Edward Mathews.—At a meeting held in the Club Rooms in May, a majority of the Committee being present, it was unanimously resolved to adopt the proposal to erect the memorial to the memory of C. E. Mathews in the garden of Couttet's Hotel at Chamonix.

Mr. Freshfield having stated that he would shortly have to visit Chamonix on business connected with a monument to François Dévouassoud, and having expressed his willingness to represent the Committee, his offer was gratefully accepted.

The Bishop of Bristol, with Mr. Freshfield, kindly undertook to provide a suitable inscription for the memorial, and Messrs. Couttet undertook to forward an estimate of the cost of the work.

It was agreed that any surplus left after the completion of a

* Vol. xvii. of the *Mitteilungen.*

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suitable monument at Chamonix should be devoted to helping the fund for a memorial on Snowdon.

CAROLO EDVVARDO MATHEWS
MONTIVM AMATORI
AMATORES
FRATERNITATIS ALPINAE SODALI
SODALES
E FVNDATORIBVS SVPERSTITI
FRATRES
AMICO IVCVNDISSIMO
AMICI.

OBIIT VALDE DEFLENDVS
A.S. MCMV. AET. LXXII.

List of Contributions.

	£	s.	d.
Mrs. E. P. Jackson	1	1	0
Austin R. Clover	1	1	0
Sir W. M. Conway	1	1	0
Eustace Hulton	1	1	0
G. G. Ramsay	1	0	0
E. de Quincey	1	1	0
A. East	1	1	0
G. Yeld	1	1	0
L. W. Rolleston	1	1	0
R. Cary Gibson	1	1	0
O. J. Bainbridge	1	1	0
W. Douglas	1	1	0
A. Nash	1	1	0
W. N. Ling	1	1	0
W. Vainsmith	1	1	0
C. Burlingham	1	1	0
Alfred Barran	1	1	0
H. G. Willink	1	1	0
Ellis Carr	1	1	0
W. E. Davidson, C.B., K.C.	1	1	0
Reginald Hughes, D.C.L.	1	1	0
L. D. Nicholson	1	1	0
Captain Farrar, D.S.O.	1	1	0
Claude Wilson	1	1	0
F. A. Wallroth	1	1	0
Tempest Anderson, M.D.	1	1	0
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Sir Henry Bergne, K.C.B., K.C.M.G.	1	1	0
Walter Larden	1	1	0
H. T. Mennell	1	1	0
Walter Barrow	1	1	0
Max Schintz	1	1	0
Hermann Woolley	1	1	0
G. H. Savage, M.D.	1	1	0
H. E. B. Harrison	1	1	0
Carried forward	36	14	0

	£	s.	d.
Brought forward	36	14	0
Sir Maurice Holzmann, C.B., K.C., V.O.	1	1	0
M. Pole	1	1	0
J. H. Doncaster	1	1	0
Dr. R. Liveing	1	1	0
A. O. Prickard	1	1	0
J. A. Vardy	1	1	0
J. P. Somers	1	1	0
W. Pickford, K.C.	1	1	0
H. Cockburn	1	1	0
G. A. Solly		10	6
R. Spence Watson	1	1	0
H. E. Robertson	1	1	0
Chas. E. Shea		10	6
D. J. Abercromby	1	1	0
Hon. Gerald FitzGerald	1	1	0
D. Winteringham Stables		10	6
Henry Wagner	1	1	0
Rev. T. G. Bonney, F.R.S.	1	1	0
J. Walter Robson		10	6
Robert Corry		10	0
Wm. Muir	1	1	0
G. H. Makins	1	1	0
Hugh Sterling	1	1	0
F. Gardiner	1	1	0
G. Chater	1	1	0
Sir F. J. Cullinan, C.B.	1	1	0
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Canon Beaumont	1	1	0
Victor H. Gatty	1	1	0
Wm. Trotter	1	1	0
Alfred Booth	1	1	0
E. Somerville Tattersall	1	1	0
Carried forward	69	15	0

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	£	s.	d.
Brought forward .	69	15	0
J. N. Collie, F.R.S.	1	1	0
G. L. Stewart	1	1	0
R. Gaskell	1	1	0
A. J. Butler	1	1	0
Fitzgerald Whelan	1	1	0
Sir A. B. W. Kennedy	1	1	0
Godfrey W. H. Ellis	1	1	0
R. D. Wilson	1	1	0
A. M. Bartléet	1	1	0
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Sir F. O. Schuster, Bart.	1	1	0
F. à C. Bergne		10	6
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Rev. F. T. Wethered	1	1	0
Harry S. Williams	1	0	0
Thos. Middlemore	1	1	0
P. Watson	1	1	0
Mrs. Fisher Unwin	1	1	0
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Thos. Blanford	1	1	0
Robert Walters	1	1	0
Harry Runge	1	1	0
E. H. F. Bradby	1	1	0
J. J. Brigg		10	0
R. A. Arkle	1	1	0
A. L. Mumm	1	1	0
D. W. Freshfield	1	0	0
Chas. Pilkington	1	1	0
C. H. R. Wollaston	1	1	0
Lawrence Pilkington	1	1	0
Carried forward .	102	19	0

	£	s.	d.
Brought forward .	102	19	0
S. B. Beech		10	6
C. W. Nettleton	1	1	0
C. W. Cobb	1	1	0
J. C. Atkinson	1	1	0
H. A. Beachcroft	1	1	0
G. H. Hodgson	1	1	0
C. G. Heathcote	1	0	0
Rev. W. Gilbert Edwards		5	0
The Bishop of Bristol	1	1	0
A. Caddick	1	1	0
Rev. H. B. George	1	1	0
Oxford A.C.	1	1	0
A. E. Zimmern		5	0
Sir F. Pollock, Bart.	1	1	0
Philip Fletcher	1	1	0
Winward Hooper	1	1	0
J. T. Bramston	1	1	0
S. D. Williams	1	1	0
Sydney Spencer	1	1	0
F. F. Tuckett	1	1	0
P. H. Gosset	1	1	0
Dr. H. Dübi	1	0	0
Horace Walker	1	1	0
Lucy Walker	1	1	0
G. W. Hartley	1	1	0
J. H. Wicks	1	1	0
G. Wherry	1	1	0
Chas. E. Layton	1	1	0
Walter W. Wiggin	1	1	0
From Members of Shakespeare Club, Birmingham, per Whitworth Wallis, Esq.	5	0	0
	£136	3	6

MONUMENT TO FRANÇOIS J. DÉVOUASSOUD.—Mr. Douglas Freshfield desires to acknowledge the receipt or promise of subscriptions towards placing a suitable memorial of François Dévouassoud in the Chamonix Cemetery from Sir R. M. Beachcroft, the Rev. W. A. B. Coolidge, Mr. Joseph H. Fox, the Rev. Hereford B. George, Mr. C. Comyns Tucker, Mr. Francis F. Tuckett, Mr. J. H. Wainewright, and the Rev. F. T. Wethered.

There must be some delay in the erection of the memorial stone, owing to the fact that a new cemetery is about to be laid out at Chamonix, to which it is proposed to remove the principal monuments from the present churchyard. It has been decided, after visiting Chamonix and taking counsel with the family, the 'maire,' and the curé, to place the memorial in a suitable site in the new cemetery. It will be in the form of a modified Iona cross with rope ornament, and stand about 6 ft. high. The lower portion will carry the following inscription:—'François J. Dévouassoud MDCCCXXXII.–MDCCCCV. Viro integro Comiti Amico Sodali jucundo dilecto desiderato Duci sagaci indomito per XL. annos spectato ne

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tantæ Virtutis Memoria et Exemplum perderetur hunc Lapidem nonnulli ex Amicis quos sæpe inter Alpium Juga et Caucasi Nives duxerat ponendum curaverunt.' The names of the subscribers will be placed on the pedestal. Meantime a simple stone with name and dates has been placed at the head of the actual grave, which it is hoped may not be disturbed.

THE REFUGES OF THE FRENCH ALPINE CLUB.—The President of the Alpine Club has received the following letter :—

Rue du Bac, 30 : Paris, le 1er Août 1906.

MONSIEUR LE PRÉSIDENT,—La Direction Centrale du Club Alpin Français a décidé que les membres du Club Alpin Anglais seraient admis dans les refuges de l'Association aux droits et avantages dont jouissent ses propres membres, sur la présentation de leur carte de sociétaire.

J'ai l'honneur de porter à votre connaissance cette décision prise en raison des services que le Club Alpin Anglais a rendus à l'alpinisme.

Veuillez agréer, Monsieur le Président, l'hommage de mon respect.

V. CHEVILLARD,
Le Secrétaire Général.

THE MEASUREMENT OF HIMALAYAN GLACIERS.—Mr. Douglas Freshfield sends for publication the following letter :—

'Dear Sir,—The request addressed by you to the Trigonometrical Survey of India in April of last year to assist in the measurements of the movements of Himalayan glaciers is at last, I am glad to inform you, in a fair way to produce the result desired. The question was discussed at a meeting of the Board of Scientific Advice in December last, and it was resolved that the Geological Survey should undertake the work, as the Surveyor-General (Colonel Longe) could not spare men for it. Mr. Holland, Director of the Geological Survey, was unable to take the matter up before he went on leave in May, and left it to me to do so. I accordingly drafted proposals, and submitted them to the Government of India as soon as Mr. Holland left, and have just received sanction for them.

'I have already instructed two of our officers, who have gone up to Kumaon to report on various minerals there, to make plans of the ends of at least three of the glaciers in that district—the Milam, Pindari, and Shunkalpu glaciers, all of which are fairly easily accessible—and to fix marks near the ends of the glaciers for future measurements, and also to take photographs. When their reports are received I hope to be in a position to issue suggestions to travellers and sportsmen for continuing the measurements, and have these posted up in the dâk bungalows along the routes to these glaciers. The same will be done for other glaciers in the Himalayas as opportunity offers, and I hope to be able to send men up to Kulu, Spiti and Kashmir during the autumn.

'In the meantime I have drawn up a set of suggestions for the taking of photographs by travellers, &c., a copy of which I hope to

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be able to send you next week, and will send a number to Dr. A. Neve, in Kashmir, who has kindly promised to assist us in the work, in order that he may distribute them to his friends. I had intended to have these suggestions posted up in dâk bungalows all over the Himalayas, but there has been so much delay in obtaining the sanction of Government that I think there will be little use in doing so this year, especially as they will, I hope, soon be superseded by the more definite measurements and instructions which ought to result from Messrs. Cotter and Brown's work in Kumaon.

'I have seen a good deal of the Himalayan glaciers myself, and think that there will not be much difficulty in fixing permanent marks near the glacier snouts, though Colonel Burrard thinks that any marks cut on the rocks would soon be destroyed by weathering. If glacial striæ can remain visible for the number of years they do, I do not see why deeply cut chisel-marks, or holes "jumped" into the rock, should not be equally lasting. I will send you a copy of my instructions to Messrs. Cotter and Brown on these points.

'The main difficulty, I think, will be to fix the exact position of the snout of the glacier at any particular time in most cases, seeing how deeply the ice is usually buried beneath moraine stuff; but I think that, in many cases, the ice cave will give a fairly well defined point to measure to.

'Colonel Burrard tells me that he will have several men working in the Himalayas next year, and that they will no doubt be able to make measurements. The main thing is to get permanent marks fixed in the first instance. Afterwards there will be plenty of men willing to carry on the observations.

'Yours sincerely,

'Thomas D. La Touche,

'Officiating Director Geol. Survey of India.

'Douglas W. Freshfield, Esq., Member of the Commission Internationale des Glaciers.'

The Director has also sent a draft of the very practical set of 'Suggestions for Glacier Observations' which it is intended to issue for the use of surveyors and travellers.

Windham and Pococke's Visit to Chamonix.—The first tourists to visit the valley of Chamonix have been often ridiculed for their precaution in taking arms. The following extract from a manuscript letter from H. B. de Saussure, to the celebrated Dr. Haller, which I copied the other day in the public library at Bern, shows, I think, that this may have been, and probably was, at the time a very reasonable precaution. It is true that it refers to a period twenty years later than that of our countrymen's journey. But if Savoy was insecure in 1761 it is, to say the least, probable that it was not wholly safe twenty years earlier.

Saussure, writing under date September 10, 1761, tells Haller the following story. Two German savants had been missing for some time. Their bodies, giving proof of robbery and murder, were at last found in a gorge on the Salève. They had fallen

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victims to a band of 'Bohemians' who were lurking 'in the forests of the Alps.' These outlaws had been bold enough to enter villages and plunder houses in open daylight. 'The Chamoniards had turned out in a body to hunt them as if they had been wild beasts.' Fortunately for the Bohemians they had escaped, for if caught they would assuredly have been put to death without any form of trial. Saussure concludes by lamenting that he shall have henceforth to give up his solitary rambles on the heights round Geneva. DOUGLAS W. FRESHFIELD.

REVIEWS AND NOTICES.

Kaukasus. Reisen und Forschungen im kaukasischen Hochgebirge. Von Moriz von Déchy. (Berlin: Dietrich Reimer. 1905.)

IF it is difficult for a mountaineer to explain the fascination which draws him year after year to the Alps, it is even more difficult to define the subtle influence which seems to exist in the very air of the Caucasus, which fixes scenes, sounds, impressions, and experiences so vividly and deeply in the memory and which has led so many travellers to repeat their visits to that magnificent mountain region.

Herr von Déchy must have felt the power of this mysterious charm in an exceptional degree, since he has made no less than seven expeditions to various parts of the chain, and his enthusiastic admiration for the great range has impelled him to take an important part in its exploration.

It is not easy at the present day to realise that only forty years ago so very little was known, even by geographers and scientists, about the mountains and glaciers of the Caucasus, nor is it easy to understand why this ignorance died so hard and why, even for years after Mr. Freshfield's party of 1868 had drawn aside the veil, the old legend about the insignificance of the Caucasian glaciers lingered on with a vitality which seems to be characteristic of geographical myths.

In the course of the last twenty-five years, however, the ice-axe and camera have again been at work in the mountains, and it is in no small measure owing to the improvements made during the same period in photographic methods and processes that the magnitude of the Caucasian glaciers and the grandeur of the scenery have now become subjects of common knowledge. The modest octavos of the sixties and seventies have been succeeded by Mr. Freshfield's splendidly illustrated 'Exploration' in 1896, by Dr. Merzbacher's comprehensive 'Kaukasus' in 1901, and now Herr v. Déchy gives us two lavishly illustrated quartos with the promise of a third to follow.

The author's method differs somewhat from that of the two previous writers, inasmuch as he does not devote special chapters to orography, ethnology, &c., but deals with these subjects in the

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