

Professor Tison's office, which is probably the only way in which the whole bulk of the transactions of the Commission can appear in reasonable time.

At the end of the Conference of the I.U.G.G. the question of the International Geophysical Year 1956-57 was discussed by an International Committee upon which Professor G. Manley acted as representative for Great Britain.*

The next Assembly of the I.U.G.G. will be held in Buenos Aires in 1957. It is to be hoped that it will not be unfortunate for the Commission on Snow and Ice that it is to be held in a country where hitherto there has not been much glaciological study and where distance may be a handicap for many European glaciologists. It may be, however, that the newly formed National Institute of the "Continental Ice" of Patagonia will have results to contribute by then.

In the course of the meetings the President read a message from Dr. P. L. Mercanton suggesting that a tour of the Swiss glaciers for members of the Commission should be arranged in conjunction with the next triennial Assembly. This may now prove less easy in view of its taking place in South America; but it could still be held if the date were early enough not to clash with the main meeting of the Commission. Alternatively it might take place in the previous year. Such a tour would undoubtedly be popular and is very desirable. It might be better for some more corporate body than the Commission, such as this Society, to make the arrangements.

In accordance with the principle decided in 1951 at Brussels no subjects have been set for the papers to be read in 1957. This proved eminently satisfactory at Rome and provided valuable papers in the many widely differing and rapidly developing aspects of glaciology.

For the next triennium Professor R. Haefeli (Zürich) takes the place of the retiring President. The Vice-Presidents are Professor R. Finsterwalder (Munich) and Professor A. Bauer (Strasbourg). The Commission is fortunate to be able to retain as Secretary, Mr. P. D. Baird, who is now resident in Scotland.

* A separate report appears on p. 482.

PAPERS READ BEFORE THE INTERNATIONAL COMMISSION ON SNOW AND ICE, 1954

GLACIER TEMPERATURE, REGIME AND FLUCTUATION

The use of stakes in measuring the accumulation of snow on glaciers	C. W. M. Swinbank †	Great Britain
Some factors affecting the temperature distribution in large ice sheets	G. de Q. Robin †	Great Britain
Fluctuations of the Nisqually Glacier, Mt. Rainier, Washington, during the last two centuries	A. E. Harrison *	United States
Glaciothermal investigations on the Upper Taku Glacier, Alaska	Maynard M. Miller	United States
Der Gletscherrückgang in den Ostalpen	R. Finsterwalder	Germany
Aires englaciées et altitudes des fronts des glaciers des Alpes suisses et leurs variations d'après l'atlas Siegfried (1877) et la carte nationale (1932)	P. L. Mercanton †	Switzerland
Sur le bilan hydrologique des bassins glaciaires avec application au Grand Glacier d'Aletsch	P. Kasser	Switzerland
Glacier fluctuations in the Canadian Rockies	Calvin J. Heusser *	United States
Studies of the variations in size of Swedish glaciers in recent centuries	Erik Bergström †	Sweden
Rapport sur les variations de longueur des glaciers d'Europe durant la période 1950-1953	P. L. Mercanton †	Switzerland
Considérations sur les variations frontales des glaciers italiens au cours des quarante dernières années	M. Vanni	Italy
Messungen der ablation und der Wärmeumsatz auf Alpengletschern	H. Hoinkes	Austria
Summary of North American glacier fluctuations	W. O. Field *	United States

GLACIERS AND ICE COVER (VARIOUS)

Ice thickness measurements in Queen Maud Land, Antarctica	G. de Q. Robin †	Great Britain
Glaciological studies in the Penny Highland, Baffin Island, 1953	W. H. Ward	Great Britain
Observations on the Nisqually Glacier and other glaciers in the northwestern United States	A. Johnson *	United States
Pressure release and glacial erosion	W. V. Lewis	Great Britain
On the occurrence of ice domes and permanently snow-covered summits	Gordon Manley	Great Britain

Observations dans une calotte glaciaire froide	R. Haefeli <i>and</i> F. Brentani	Switzerland
Bericht über die glaziologischen Arbeiten am Unteraargletscher	W. Jost †	Switzerland
Report on glaciological investigations during the Norwegian-British-Swedish Antarctic Expedition, 1949-1952	V. Schytt †	Sweden
Les résultats glaciologiques des Expéditions Polaires Françaises	A. Bauer	France
Etudes séismiques sur l'Inlandsis du Groenland	J. Holtzschcher †	France
Le Glacier de la Marmolada	D. Tonini	Italy
Les glaciers du Val d'Aoste	M. Vanni, G. Aliverti <i>and</i> F. de Gemini	Italy
Le Glacier du Calderone du Gran Sasso d'Italia	D. Tonini	Italy

SNOW AND ICE PHYSICS

Force exerted on snow during its break-down	Z. Yosida <i>and</i> S. Kinoshita *	Japan
A study on the optical and acoustical properties of the snow cover	H. Oura *	Japan
The dielectric property of snow	D. Kuroiwa *	Japan
Electron microscope study of snow crystal nuclei	M. Kumai *	Japan
Some studies on the mechanical properties of snow	Z. Yosida <i>and</i> T. Huzioka *	Japan
Acceleration of metamorphosis of snow by temperature gradient	Z. Yosida <i>and</i> K. Kojima *	Japan
On heat conductivity of snow	M. de Quervain †	Switzerland
Flow and recrystallisation of ice	S. Steinemann †	Switzerland
Some observations on the banding of glacier ice	N. Untersteiner	Austria
Cinematographic study of ice crystal formation in water	M. Kumai <i>and</i> K. Itagaki *	Japan

SNOW (VARIOUS)

Measurement of water content of snow	M. Kuroda <i>and</i> I. Hurukawa	Japan
Classification of snow deposit	M. Kuroda <i>and</i> C. Gondahira	Japan
Snow control of the Shelterbelt	M. Shiotani <i>and</i> H. Arai *	Japan
La structure des pénitents de neige	L. Lliboutry *	Chile
Die Bestimmung der Schneehöhenverteilung auf photogrammetrischem Wege	Th. Zingg †	Switzerland
Lysimeter studies of runoff from a deep snow pack	D. M. Rockwood, P. B. Boyer <i>and</i> C. E. Hildebrand †	United States
Carte des neiges du Bassin du Pô	F. Abadessa	Italy

RIVER AND SEA ICE

A summary review of ten years' work in the domain of sea ice on the Okhotsk Sea coast of Hokkaidô	T. Fukutoni *	Japan
Historical review of studies on sea ice in Japan	Kou Kusunoki *	Japan
Some remarks on the method of sampling of sea ice	Kou Kusunoki <i>and</i> T. Tabata *	Japan
Glaciological reconnaissance in Northern Ellesmere Island	G. Hattersley-Smith †	Canada
Entstehung und Bekämpfung von Eis in stehenden und fließenden Gewässern und insbesondere an Stauanlagen	K. Th. Strauch †	Germany
Experimental studies on freezing of water	K. Arakawa *	Japan
Formation and movement of floating ice in Dutch rivers, with special reference to the tidal region	P. Santema <i>and</i> K. F. Valken	Netherlands
The influence of an ice-cover on the discharge conditions of a river	P. J. Wemelsfelder	Netherlands
An investigation concerning the balance of heat in a river during violent frost	P. J. Wemelsfelder	Netherlands
Etude sur la croissance de la glace dans le fleuve Soungari (Mandchouri Chinoise)	M. Murakami *	Japan
Probleme der Meereisforschung	F. Nusser	Germany

VARIOUS

Effect of antecedent base flow in forecasting runoff of the Columbia River from snow survey data	C. C. McDonald <i>and</i> M. W. Nelson †	United States
A review of soil freezing as affected by snow cover, plant cover and soil conditions in northwestern United States	W. E. Bullard †	United States
On the influence of the water equivalent of the snow cover on the water supply in Finland	A. Sirén	Finland

* Read by title.

† Read *in absentia*.

‡ Read before a joint meeting of the Associations of Hydrology and Seismology.