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INTERNATIONAL
CONGRESS
ON LARGE DAMS*

*VINGTIÈME
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INTERNATIONAL
DES GRANDS BARRAGES*

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NOTE

Units of Measurement

As for the previous Congresses and though some authors do not fully agree, we attempt to follow the recommendations of the International System of Units (SI).

For example, hm^3 and km^3 were preferred to 10^6 and 10^9 m^3 , or million and billion cu.m. See Bulletin 34 "ICOLD Guide for the International System of Units (SI)", page 13.

The decimal sign may be the full stop (Anglo-Saxon usage) or the comma (European usage); but as a safeguard against confusion, full stop (period) and comma are used as decimal sign only.

Where the number of digits before or after the decimal sign exceeds three, the digit should be divided into groups of three by half space.

We meet not enough co-operation from some authors writing in English who go on keeping the comma to separate the groups of three digits instead of using half space. It was not possible to make the appropriate corrections in all the tables provided by the authors and even in the text. Sorry for the inconvenience.

AVERTISSEMENT

Unités de Mesure

Comme pour les Congrès précédents et bien que certains auteurs manifestent des réticences à ce sujet, on s'est efforcé de suivre les recommandations du Système International d'Unités (SI).

Par exemple, on a utilisé plus volontiers hm^3 et km^3 au lieu de 10^6 m^3 et 10^9 m^3 ou million et milliard de mètres cubes. Voir Bulletin 34 « Guide CIGB du Système International d'Unités (SI) », page 13.

De même, on a retenu le point (usage anglo-saxon) et la virgule (usage européen) comme signe décimal, mais pour éviter toute confusion, la virgule et le point ne sont utilisés que comme signe décimal.

Aussi, quand le nombre de chiffres avant ou après la virgule est supérieur à 3, les chiffres sont groupés par 3, chaque groupe étant séparé par un court espace.

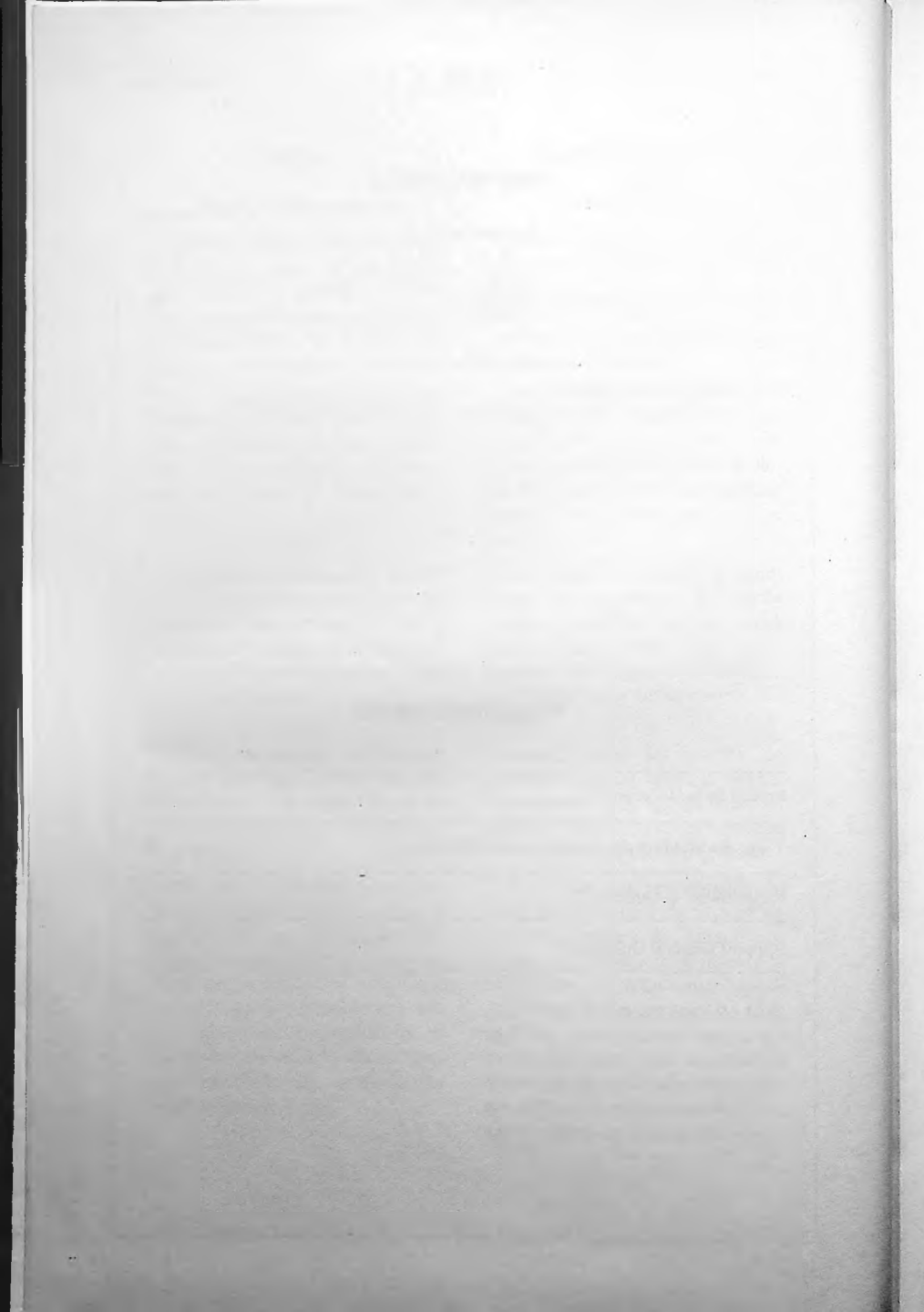
À ce sujet nous rencontrons encore des difficultés de la part de quelques auteurs de langue anglaise qui continuent à utiliser la virgule au lieu d'un court espace pour séparer les groupes de trois chiffres. Nous n'avons pas pu apporter les corrections nécessaires dans tous les tableaux fournis par les auteurs et même dans le texte. On voudra bien nous en excuser.

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PAPERS ON Q 77

RAPPORTS SUR LA Q 77

Benefits of and concerns about dams**Subject**

Case studies, particularly those including numerical data resulting from surveys, measurement or analysis, on the following themes:

- a) Major benefits of dams, including flood control, energy and power production, food production, water supply, navigation, recreation, and environmental enhancement.
- b) Management of concerns, including environmental and social effects.
- c) Evaluation procedures and decision making, including cost/benefit analysis, discounted cash flow methods, practicality of small scale or other alternatives to dams.
- d) Methods of achieving consensus, including public participation in the implementation process, definition of goals, understanding the role of interest groups, the role of funding agencies.

Bienfaits et préoccupations associés aux barrages**Objet**

Études de cas, comportant spécialement des données quantitatives issues d'études, de mesures ou de calculs sur les thèmes suivants :

- a) Principaux bienfaits des barrages, incluant la protection contre les crues, la production d'énergie et de puissance, la production agricole, l'alimentation en eau potable et industrielle, la navigation, les loisirs et l'amélioration de l'environnement.
- b) Gestion des préoccupations, entre autres environnementales et sociales.
- c) Procédures d'évaluation et prises de décision prenant en compte le calcul coût-bénéfices, le calcul d'amortissement, le domaine d'application de la petite hydraulique et autres alternatives aux barrages.
- d) Méthodologie de négociations avec la participation active de la population au cours de l'élaboration du projet, dans le choix des objectifs, incluant les intérêts locaux et financiers.

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