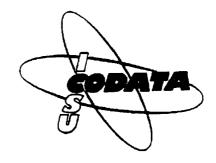
## **SCIENTIFIC**

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and

## **ABSTRACTS**

#### CODATA'94 has been organized

Under the patronage of the Ministère de l'Environnement, the Ministère de l'Enseignement Supérieur et de la Recherche, the Ministère de l'Industrie and the Ministère de la Défense.

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# 14th International CODATA Conference 18-22 September 1994

Chambery, Savoy, France

### S C I E N T I F I C PROGRAM and ABSTRACTS

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M5.CS
DATABASES IN THERMODYNAMICS OF COMPLEXATION

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The original factual database on an IBM PC in the thermodynamics of complexation of macrocyclic polyethers with salts of alkali and alkaline-earth metals has been created. The database contains more than 4000 records. These records include the critically reviewed and evaluated thermodynamic data derived from over 60 journals covered by Chemical Abstracts (CA) from 1968 to the present. The reaction record contains the structure diagram for ligand (macrocyclic polyether, crown-ether), formula of salt of alkali or alkaline - earth metal, the solvent, concentrations of ligand and salt in solution, ionic strength, temperature, equilibrium constant 1 gK, the enthalpy AH, the entropy DS, where available, experimental methods for evaluation of thermodynamic data, references, all of which are searchable and displayable. The database is in English, except for some text fields. At present, we are preparing the factual database in thermodynamics of the complexation of all organic ligands with metal cations. This database will contain more than 50 000 reactions.