

Mines Branch Information Circular IC 246

BIBLIOGRAPHY OF  
HIGH-TEMPERATURE CONDENSED STATES  
RESEARCH PUBLISHED IN CANADA,  
JANUARY-MARCH, 1970

by

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SYNOPSIS

This report contains bibliographic information concerning research work on high-temperature condensed states published in Canadian journals from January 1 to March 31, 1970.

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BIBLIOGRAPHIE DES  
RECHERCHES EFFECTUÉES DANS LE DOMAINE DES ÉTATS  
CONDENSÉS AUX TEMPÉRATURES ÉLEVÉES, AU CANADA,  
DE JANVIER À MARS, 1970

par

Norman F.H. Bright\*

RÉSUMÉ

Le présent rapport contient des renseignements bibliographiques sur les recherches effectuées sur les états condensés aux températures élevées, publiées dans les revues scientifiques canadiennes au cours de la période de janvier 1 à mars 31, 1970.

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## INTRODUCTION

This report is a further contribution to the series of bibliographic bulletins of information on high-temperature condensed states research that have been published as Mines Branch Information Circulars since March 1960 on behalf of the Commission on High Temperatures and Refractories of the International Union of Pure and Applied Chemistry. The present document covers the three-month period from January 1 to March 31, 1970 and gives details of work published in Canadian scientific and technical journals during that period.

Anyone not now receiving these reports who wishes to do so, or anyone who currently receives these bibliographies but to whom they are no longer of interest, is requested to advise the compiler accordingly so that the appropriate changes may be made in the relevant mailing lists.

The compiler would very much appreciate being advised of any work published in Canadian journals, and lying within the scope of these bibliographies, that has escaped his notice in order that such work may be mentioned in a subsequent issue of this series of Information Circulars.

Any further information concerning these bibliographies or any of the other relevant IUPAC activities can be obtained from the compiler of this report at the following address:

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Ottawa 1, Ont.

The recipients of these bibliographies are reminded that they will no longer receive gratis copies of the quarterly bibliographies published on an international basis, for both condensed- and gaseous-states work, by the National Bureau of Standards, Washington, D.C. As detailed in earlier issues of this series of Information Circulars, those wishing to receive these international documents should purchase them from the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C., 20402, U. S. A. They should ask for NBS Special Publication 315.

The compiler of these reports also wishes to remind the recipients that, on request, the Superintendent of Documents will place their names on a special register, Notification Key N-380, to be notified of the price and availability of each issue of S.P. 315 as it is published.

The recipients of these bibliographies might be interested to be informed concerning the various personnel, Titular Members, Associate Members and National Representatives, who make up the Commission on High Temperatures and Refractories. These people, whose names and addresses are listed below, were elected or appointed at the meeting of the Commission held at Cortina d'Ampezzo, Italy, in July, 1969.

### COMMISSION ON HIGH TEMPERATURES AND REFRACTORIES

#### Titular Members

##### Chairman

1965-1973 Horton, W.S., Dr.,  
Inorganic Materials Division,  
National Bureau of Standards,  
US Department of Commerce,  
Washington, D. C., 20234 (USA).  
(TEL: 301 921 2891)

##### Secretary

1969-1973 Rieck, G.D., Prof.,  
Laboratorium voor Fysische Chemie,  
Technische Hogeschool,  
Eindhoven,  
POB 513, Eindhoven (Netherlands),  
(TEL: 040 433222)

##### Members

1969-1973 Alcock, C.B., Prof.,  
Department of Metallurgy and Materials Science,  
University of Toronto,  
Toronto 5, Ontario (Canada).

1965-1973 Collongues, R., Prof.,  
École nationale supérieure de Chimie,  
Université de Paris,  
11 rue Pierre et Marie Curie,  
F-75 Paris 5<sup>e</sup> (France).

1969-1973      Fitzer, E., Prof.,  
Institut für Chemische Technik der Universität Karlsruhe,  
Kaiserstrasse 12,  
D-7500 Karlsruhe (Germany).

1969-1973      Sheindlin, A.E., Prof.,  
Institute for High Temperatures,  
Academy of Sciences of USSR,  
Krasnokasarmennaya 17,  
Moscow E-250 (USSR).

Associate Members

1965-            Cabannes, F., Prof.,  
Centres de Recherches sur Physique des Hautes Températures,  
Centre national de la Recherche scientifique,  
F-45 Orléans,  
La Source (France).

1969-            Hlaváč, J., Prof.,  
Katedra Technologie Silikátu,  
Vysoké Školy Chemicko-Technologické v Praze,  
Technická 1905,  
Praha 6-Dejvice (Czechoslovakia).

1969-            De Maria, G., Prof.,  
Istituto di Chimica fisica ed elettrochimica,  
Citta Universitaria,  
Università, Roma (Italy).

1969-            Mii, T., Prof.,  
Department of Mechanical Engineering,  
Nagoya University, Furo-cho,  
Chikusa-ku,  
Nagoya (Japan).

1969-            Motzfeldt, K., Prof.,  
Metallurgisk Institutt,  
Norges Tekniske Hogskole, Trondheim (Norway).

1969-            Nowotny, H., Prof.,  
Institut für Physikalische Chemie der Universität Wien,  
Währinger Strasse 42,  
A-1090 Wien IX (Austria).

National Representatives

Australia  
1969- McCartney, E. R., Dr.,  
Department of Ceramic Engineering,  
University of New South Wales,  
Kensington, New South Wales 2033.

Belgium  
1969- Drowart, J., Prof.,  
Laboratoire de Chimie Physique Moléculaire,  
Université Libre de Bruxelles,  
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B-1050 Bruxelles.

Canada  
1970- Bright, N. F., Dr.,  
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555 Booth Street,  
Ottawa, Ontario.

Sweden  
1969- Magnéli, A., Prof.,  
Department of Inorganic and Physical Chemistry,  
Royal Institute of Technology,  
POB 6801,  
S-113 86 Stockholm.

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International Union of Pure and Applied Chemistry  
Commission on High Temperatures and Refractories

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Nil

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a. Metallic materials

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G. J. Biefer (Physical Metallurgy Division, Mines Branch, Department of Energy, Mines and Resources, Ottawa, Ontario).

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- c. Mixed materials

Nil

E. Properties, at temperatures above 1000°C, of materials that melt above 1500°C

a. Metallic materials

Nil

b. Non-metallic materials

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R. W. Gibberd (Theoretical Physics Institute, University of Alberta, Edmonton, Alberta).  
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c. Mixed materials

Nil

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a. Metallic materials

Nil

b. Non-metallic materials

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F. L. Weichman and R. Kuzel (Department of Physics, University of Alberta, Edmonton, Alberta).  
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Nil

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