lowing topics are solicited: fundamental properties, thermodynamics and phase stability, alloy design, microstructure, mechanical properties, environmental effects, processing, and industrial applications.

Abstracts of 200 to 300 words should be submitted by November 1, 1990, to Prof. O. Izumi, Institute for Materials Research, Tohoku University, Katahira, Sendai 980, Japan; telephone 022/227-6200; telex 852238; fax 022/264-7984. Abstracts are to be singlespace typed (one page 21 by 30 cm) beginning with the title and author's affiliation and with the topic category indicated at the bottom of the abstract. Two copies should be submitted. Papers must not have been published previously. The full papers will be published in Proceedings by the Japan Institute of Metals.

For more information on attending the conference, contact Prof. Izumi at the above address.

# **Comments and Addenda**

# Comment

## "Comments on the Cr-Mo Phase Diagram"

The main point of the discussion of the evaluation of data for the Cr-Mo system (88Bre) is the need to critically examine the experimental details. One should not avaerage the reported values with equal weight. As Branscomb (85Bra) has emphasized, a large fraction can be seriously in error. This has been ignored by (87Ven) and (89Neu). They have selected a minimum in the liquidus on the basis that a thermodynamic equation can be selected that would be consistent with a minimum. However, thermodynamic values can be contrived to fit almost any diagram. Such a procedure is not justified unless predictive models that consider size and internal pressure differences and electronic configurations are used to limit the range of possible thermodynamic properties. As pointed out in the commentary by Swaminathan and Jacob (89Swa), the thermodynamic values needed to be consistent with a liquidus minimum seriously distort the remainder of the diagram. The proposed diagram of the Cr-Mo system (87Ven, 89Neu) is a step backwards in the representation of the information available.

#### **Cited References**

- 85Bra: L.M. Branscomb, "Integrity in Science," Am. Sci. 73, 421-423 (1985).
- 87Ven: M. Venkatraman and J.P. Neumann," The Chromium-Molybdenum System," Bull. Alloy Phase Diagrams, 8(3), 216-220 (1987).

- 88Bre: L. Brewer, "Critical Evaluation of Typically Unreliable High-Temperature Data," Bull. Alloy Phase Diagrams, 9(2), 99-100 (1988).
- 89Neu: J.P. Neumann, "A Comment on the Cr-Mo System," Bull. Alloy Phase Diagrams, 10(1), 5-8 (1989).
- 89Swa: S. Swaminathan and K.T. Jacob, "Further Commentary on the Cr-Mo Phase Diagram," Bull. Alloy Phase Diagrams, 10(4), 329-331(1989).

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## Addendum

### The N-W System

In Vol. 10 No. 4, page 358, the values along the vertical axis in Fig. 1 should have been negative. The figure can be corrected by placing a minus sign in front of Log  $C_N$  or by placing minus signs in front of the numbers on the vertical scale. References to the figure in text are correct.