

**International Town Meeting on SiC/SiC Design and Material Issues for  
Fusion Systems  
January 18-19, 2000, Oak Ridge National Laboratory**

**Objectives and Scope**

The major objective of the meeting is to bring together the SiC/SiC design and material communities from Japan, the EU and the US to exchange information, identify the design-related critical issues, discuss them in light of the latest material R&D results, and provide guidelines to help focus future effort. Given that SiC/SiC is being viewed by many as a high risk but high payoff candidate for structural material in a fusion device, it is hoped that the high payoff will clearly emerge out of the design-related presentations and that the material presentations will identify the current knowledge base for SiC/SiC. With both design goals and material development status summarized, the discussion session will focus on developing a material R&D roadmap to address the key challenges giving rise to the high risk.

It is intended to have about 25% of the meeting scheduled for design-related presentations, about 55% scheduled for material-related presentations and about 20% scheduled for discussion topics addressing the above-mentioned meeting objectives. A visit of the SiC/SiC manufacturing and testing facilities at ORNL is also being planned.

In order to help focus the materials presentations, it should be emphasized that proposed designs utilizing SiC/SiC as structural material are based on the use of high temperature He or liquid metal (e.g., Pb-Li) as the coolant with the SiC/SiC operating in the temperature range of about 600-1000°C. Although data on low-temperature compatibility and irradiation performance is of interest from a scientific point of view, such data may not be relevant to this particular meeting unless the lower temperature data (<600°C) can be extrapolated through models to the higher temperatures of interest.

## Contact

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The meeting is graciously hosted at Oak Ridge National Laboratory under the coordination of Dr. Steve Zinkle. Please address any questions about logistics (transportation, hotel, badges, etc...) to Dr. Zinkle's secretary:

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