

2:40-3:00 p.m. (SXVIIc-172-94)

SINTERING OF BORON CARBIDE, J.C.

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Compacts were produced through pressureless sintering and hot-pressing using C, C+B<sub>2</sub>O<sub>3</sub>, C+B<sub>2</sub>O<sub>3</sub>+Al<sub>2</sub>O<sub>3</sub>, Ni, Ti and Ni+Ti mixtures as sintering aids. The effects of composition, temperature and pressure on the final density, microhardness and toughness of the resulting compacts was studied.