

Abstract Submitted
for the OSS09 Meeting of
The American Physical Society

A Heat Conduction Problem in Laser Ablation WILLIAM FULLER,
MARIA RAITI, Ohio Northern University, RONALD BUSH, Midwest Vein Treat-
ment Centers — Laser ablation of the saphenous vein involves using laser-tipped
probes to produce photothermal effects in the vein. We consider the effects of laser-
induced thermal heating and conduction on the vein wall. We formulate and solve
the relevant two-dimensional heat conduction problem. The solution resolves an
aspect of a controversy involving the mechanism of the medical procedure.

William Fuller
Ohio Northern University

Date submitted: 01 Apr 2009

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