

# *Pushing the Limits of RF Superconductivity Workshop*

## Abstract Submission Form for Contributed Talks

**Name:** \_\_\_\_\_ GENFA WU \_\_\_\_\_

**Affiliation:** \_\_\_\_\_ JEFFERSON LAB \_\_\_\_\_

**Session:** (choose one)

Ultimate Field Limits, New Materials, New Geometries

High Q, Field Emission, Q-Slopes

Future Research Paths to Ultimate Performance

### **ABSTRACT**

**Title:** Thin Film Coatings for RF Superconductivity

Niobium on copper technology has been a viable and attractive technology other than the solid niobium in RF superconductivity. It becomes a must have technology for some applications. Interests are growing to dramatically improve the performance of the niobium thin film cavities. Different coating processes are considered and developed around the world. The latest status and results for these different coating processes will be presented. New materials like Nb<sub>3</sub>Sn and MgB<sub>2</sub> for these coating processes and alternative coating technology will also be discussed.