

**IRPA9
1996 International Congress on
Radiation Protection
April 14-19,1996
Vienna, Austria**

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Abstract No. _____
Receipt _____
Author _____
Acceptance _____
Mini-Presentation _____

PAPER TITLE: RF Induced Body Currents: Practical Measurements

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MAJOR SCIENTIFIC TOPIC NUMBER: 4.1 or 7.2

ABSTRACT:

With the growing interest in induced current measurements and the presence in several international standards, several instruments for measuring induced currents are now commercially available. Comparing induced current measurements using differing measurement principles and instruments from different manufacturers with rule-of-thumb estimates and free-field measurements provides insight into variations in observed data.

Data is also presented using clamp-on induced current sensors to estimate contact currents.

Typical measurement situations using induced current measurements are presented in comparison with ICNIRP Guidelines on Protection Against Non-Ionizing Radiation and the IEEE C95.1-1991 Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz.