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## BIOGRAPHICAL SKETCH

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NAME <b>Lesniewski, Piotr</b>	POSITION TITLE <b>Co-director</b>		
INSTITUTION AND LOCATION	DEGREE <i>(if applicable)</i>	YEAR(s)	FIELD OF STUDY
Academy of Mining and Metallurgy, Krakow, Poland	M.Sc.	1967	Electrical Engineering

### A. Positions and Honors

1967-72	Assistant at Dept. of Biochemistry and Biophysics	Jagiellonian University, Poland
1972-99	Specialist of Electronics, Dept. of Nuclear Spectroscopy	Institute of Nuclear Physics, Poland
1982	Fellow of IAEA	Kernforschungszentrum, Karlsruhe, Germany
1988-89	Research Associate	National Biomedical EPR Center, MCW, Milwaukee
since 1999	Research Associate Head of the Electronics Laboratory and Co-director for technological development	EPR Center for Viable Systems Darmouth Medical School

### B. Experience & expertise

Construction of EPR spectrometers and resonators,  
development of electronics for applied nuclear spectroscopy, including:  
 $\gamma$ -rays detection techniques, Moessbauer Spectroscopy and Positron Annihilation instrumentation

### C. Recent publications

H.Swartz, N.Khan, Jay Buckey, R.Comi, L.Gould, O.Grinberg, A.Hartford, H.Hopf, H.Hou, E.Hug, A.Iwasaki, P.Lesniewski, I.Salikhov, T.Walczak "Clinical applications of EPR: overview and perspectives"  
*NMR Biomed.* **17**, 2004

H.M. Swartz, N. Khan, J. Buckey, R. Comi, L. Gould, O. Grinberg, A. Hartford, H. Hopf, H. Hou, E. Hug, A. Iwasaki, P. Lesniewski, I. Salikhov and T. Walczak, "Clinical Applications of EPR: Overview and Perspectives," *NMR Biomed.* 17:335-351 (2004).

T. Walczak, P. Lesniewski, I. Salikhov, A. Sucheta, K. Szybinski and H.M. Swartz  
"L-Band EPR Spectrometer for the Use In Vivo and in the Studies of Aqueous Biological Samples"  
*RSI*, Vol.76, No.1, 2005

P. Lesniewski, A. Sucheta, J. Hyde and H. Swartz, "An Octave Band Multiquantum EPR Spectrometer"  
Submitted (2005).

T. Walczak, P. Lesniewski, O.Y. Grinberg, A. Sucheta and H.M. Swartz,  
"Implantable Resonators – A New Direction for *In Vivo* Application of EPR Spectroscopy," In Preparation

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Swartz,H.M., Iwasaki,A., Walczak,T., Demidenko,E., Salikhov,I., Lesniewski,P., Starewicz,P., Schauer,D., Romanyukha,A., “Measurements of clinically significant doses of ionizing radiation using non-invasive in vivo EPR spectroscopy of teeth in situ” Applied Radiation and Isotopes 62 (2005)