

Robert J. von Gutfeld
600 W. 115th St.
New York, NY 10025

Born: Berlin, Germany, March 5, 1934: US citizen since 1945

Education:

B.S. 1954 (Physics) Queens College, Flushing, NY

M.A. 1957 (Physics) Columbia University, NY, NY

Ph.D. 1965 (Physics) New York University, NY, NY

Courses

Practicing Law Institute Longacre/White Patent Bar Review for licensing patent agents (1999).

Employment:

1954 (Fall) Lecturer in Physics (Queens College, Flushing, NY)

1957 -1960 Engineer, Sperry Gyroscope Co. (Lake Success, NY)

1960-September 30, 2004 IBM Research, Research Staff Member (Yorktown Heights, NY)

December 2004 - Adjunct Senior Research Scientist, Dept of Chemical Engineering, Columbia, University

Awards

3 IBM Outstanding Contribution Awards

1 IBM Outstanding Patent Award

1985 Electrochemical Society Annual Electroplating Divisional Award

2003 NIH Research Grant for work on Magnetic Locators with Johns Hopkins University

2007 NSF/STTR shared award with Faraday, Inc, award to study anisotropic etching of computer boards

Society Membership:

Member, Phi Beta Kappa

Fellow American Physical Society

Member Electrochemical Society

Member Optical Society of America

Work Experience:

Design of traveling wave tubes, the first to study heat pulses in solids at low temperatures, measurement of thermal relaxation times of thin films, discovery of novel refractory thin film depositions acting as light detectors, pioneering work in optical switching of chalcogenide memory materials, work with dye lasers and interactions with materials, invention and study of laser enhanced electroplating jet plating and etching, demonstration of laser repair of microcircuits, development of RFID and magnetic anti-theft tags, inventor of magnetic locators for medical applications, work on flat panel displays, cooling of microprocessors using novel structures for high thermal transport coefficients, inventions for recycling wasted server energy (heat) to promote energy conservation, discovery of two new in situ plating mechanisms related for plating oxide coated metals, work on cortical tension of red blood cells. Writing of patents for private clients.

Publications:

Over 90 publications in peer reviewed scientific journals, two book chapters (titles on request).

Patents:

93 issued US patents, 2 about to issue, 4 pending, 125 IBM patent publications, 34 IBM patent achievement awards (patent titles on request).