Gary Rubloff - FUNDING


National Science Foundation SCIART program “Protection of Silver Objects from Corrosion using Atomic Layer Deposited Barrier Coatings”, $330,000., 8/1/10-8/1/13, PI R. Phaneuf, co-PI G. W. Rubloff.


National Institute of Standards and Technology, “Ultrafast Dynamics for Next-Generation Nanotechnology”, $1,000,000, FY09, PI Gary W. Rubloff.


IARPA/ARO, “Conventional and ALD Dielectric Film Studies for Improved Josephson Phase Qubits”, $2,828,591, Rubloff share $1,439,100, 7/1/09-6/30/14, PI C. Lobb (PI), co-PI G. W. Rubloff.


MKS Instruments, “Sensors and Control Systems for Advanced Process Control (APC) in Atomic Layer Deposition (ALD)”, $170,000, 7/17/06-7/16/08, PI G. W. Rubloff

National Institute of Standards and Technology, “Center for Nanoparticle Risk, Impact, and Assessment”, $1,483,800 10/1/06-9/30/08, PI G. W. Rubloff, co-PI M. Zachariah.


NSF REU Site "Introducing the Systems Engineering Paradigm to Young Researchers and Future Leaders, co-PI G. W. Rubloff, $689,000, 2/1/03-5/3/08.


Northrop Grumman, “Atomic Layer Deposition of High-K Dielectrics for CNT Transistors”, PI G. W. Rubloff, $100,000, 1/1/05-12/31/07.
Istituto Trentino di Cultura and Autonomous Province of Trentino, “Exploring New Materials by Combinatorial and Artificial Intelligence Methods”, 348,000 Eu, 10/1/04-9/30/07, PI G. W. Rubloff, co-PI I. Takeuchi.


MKS Instruments, Vision 1000-C Quadrupole RGA Process Monitor, $50,110., 8/1/06, PI G. W. Rubloff


National Aeronautics and Space Administration, “UMD-NIST Center for Nanomanufacturing and Metrology”, $1,600,000 10/1/05-9/30/06, PI M. Zachariah, co-PI G. W. Rubloff.

MKS Instruments, InDuct FTIR Sensor System, $30,000, 1/20/05, PI G. W. Rubloff.


Northrop Grumman, “GaN MOCVD Sensing and Modeling”, PI G. W. Rubloff, $410,308, 10/15/01-12/31/05.


Toshiba Corporation, “Advanced Process Control”, $36,467., 1/1/03-6/30/03, PI G. W. Rubloff.

Laboratory for Physical Sciences, National Security Agency, “Nano-bio Technology”, $80,000., 6/1/03-9/30/03, PI’s G. W. Rubloff and R. Ghodssi.


Inficon, donation of CIS Mass Spectrometry Analysis system configured for Tungsten Deposition monitoring, market value $38,000., 2002.

National Science Foundation, “Enhancing Collaborative Research in Industrial Engineering”, $1,300,000, 9/1/98-8/31/02, PI E. H. Park (North Carolina A&T), Co-PI’s B. Ram, H. D. Ratcliff, G. W. Rubloff (Rubloff/UMCP subcontract $390,015.).


National Science Foundation, “Simulation-based Design and Prototype Testing of a Programmable Chemical Vapor Deposition Reactor”, $84,634, 8/1/00-7/31/02. PI R. Adomaitis, co-PI G.W. Rubloff.

Inficon, “Chemical Sensing and Metrology in Semiconductor Manufacturing”, $70,000, 9/20/00-9/19/01. PI G.W. Rubloff.


National Institute of Standards and Technology, "Advanced Model-Based Control Techniques", $138,663, 9/15/00 - 9/14/01. PI G.W. Rubloff.

National Institute of Standards and Technology, "Advanced Model-Based Control Techniques", $263,437, 7/1/97-9/30/00. PI G.W. Rubloff.

National Science Foundation, "Student Support for 2000 Int'l Conference on Characterization and Metrology for ULSI Technology", NIST June 26-29, 2000, $4,999, 7/1/00–6/30/01. PI G.W. Rubloff.


National Science Foundation, "Simulator-Based Manufacturing Education and Training for Microelectronics Processing", EEC9526147, $528,692, 8/15/1996-8/31/00. PI G.W. Rubloff (originally granted 9/15/95-9/31/00 at $600,148.).

Texas Instruments, SRC Research Customization program, "Sensor-Based Process Control", $150,000, 10/1/97 - 9/31/00. PI G. W. Rubloff.


Lam Research, donation of TCP 9100 A2 Alliance cluster tool system to G. W. Rubloff and G. S. Oehrlein, approx. value $1,200,000, Aug., 1994.

Ulvac Corporation, donation of ERA-1000 W CVD cluster tool to G. W. Rubloff, approx. value $1,000,000, Jan. 1997.

National Science Foundation Engineering Research Center, Institute for Systems Research program, $4,237,000, 9/1/94-8/31/98. PI G. W. Rubloff.


National Science Foundation Research Experiences for Undergraduates, Institute for Systems Research program, $102,500, 9/1/94-8/31/98. PI G. W. Rubloff.


Leybold Inficon, donation of Transpector AGM sensing system, approx. value $25,000, 1994.


Principal Investigator, Office of Naval Research, 15 years (1975-1987, 1989-1991), with research covering passivation in microelectronics, CVD process science, chemistry of thermal SiO$_2$ and MOS processes, silicide/Si and Schottky barrier interfaces, time-resolved surface reactions, surface chemical bonding/reactions, and new techniques for surface studies.