




<b>Personal Information</b>			
Given Name	Kumi	Surname	Nitta
Affiliation	JAXA Japan Aerospace Exploration Agency		
Position	Associate Engineer	Senior	Nationality Japan
Field of Expertise	Hyper Velocity Impact, Electrical Material property		
Title of Presentation			
			
<b>Education</b>			
Oct. 2001 to May 2005 : Doctor of Philosophy in Electrical Engineering, The University of Tokyo (Bunkyo-ku Hongo, Tokyo)			
Apr. 1985 to Mar. 1989 : Bachelor of Science in Physics, Japan Woman's University (Bunkyo-ku Mejirodai, Tokyo)			
<b>Professional Experience</b>			
Apr. 2005- : Japan Aerospace Exploration Agency (JAXA), R&D Engineer and Project manager			
July 2019 – : Safety and Mission Assurance Department, System Safety Unit			
May 2017-Jun 2019 : Industrial Promotion Division New Enterprise Promotion Department, Accelerated overseas operations			
Oct. 2012 – Apr. 2017 : Exploration of energization and Radiation in Geospace (ERG) project, Function sub-manager and Sub-manager			
Apr. 2011 – Sept. 2012 : Innovative Technology Exploration Agency / Program Management and integration Department, Research of Hyper velocity impact related Debris / Research Planning for all JAXA			
Apr. 2005 – Mar. 2011: Spacecraft Electrical Engineering Group, Research of plasma physics and material science, including charging and discharging phenomena in space			
Apr. 1989 - Sep. 2002 : R&D Engineer Toshiba corp. (Fuchu-shi, Tokyo)			
Oct. 2001 - Sep. 2002 : Examined R&D and product development of fan noise reduction of electric motor for train			
Jan. 2000 - Mar. 2000 : Visiting researcher, Delft University in Holland, Researched and developed vacuum arc modeling.			
Apr. 1992 - Sep. 2001 : Organized production engineering new products related to Vacuum Circuit Breaker.			
Apr. 1989 - Mar. 1992 : Developed SIMS of first optical system.			
<b>Biography</b>			
<p>Dr. Kumi Nitta graduated Japan Woman's University majoring in Physics. After she got Ph.D. in electrical Engineering from The University of Tokyo, she has joined Japan Aerospace Exploration Agency (JAXA). Her research involved topics of plasma physics and material science, including charging and discharging phenomena and hyper velocity impact relating micro debris in space. When Dr. Nitta joined Toshiba, she organized production engineering new products related to Vacuum Circuit Breaker, designed and developed several vacuum interrupters experimentally and analytically. Also, Dr. Kumi Nitta developed the application of 3-D magnetic field analysis program, supervised and provided guidance to new employees.</p>			