## **Resume: TOSHIKI TAJIMA**

PERSONAL:	Birthdate: January 18, 1948; Office phone: 1-949-824-4253
OCCUPATION:	<ul> <li>Norman Rostoker Chair Professorship, University of California at Irvine, Irvine, CA 92697</li> <li>Deputy Director, International Center for Zetta- Exawatt Science and Technology, Ecole Polytechnique, Route de Saclay, F-91128 Palaiseau, France</li> <li>Guest Professor, Ludwig Maximilian University, D-85748 Garching, Germany</li> <li>Guest Professor, KEK High Energy Accelerator Laboratory, Tsukuba, Japan</li> <li>Chief Science Officer, Tri Alpha Energy, POBox 7010, Rancho Santa Margarita, CA 92688</li> </ul>
FIELDS OF EXPERTISE:	High Field Science, Plasma Physics, Advanced Accelerator Physics
EDUCATION:	University of Tokyo, Tokyo, Japan B.S. in Physics 1971 M.S. in Physics 1973
	University of California, Irvine Ph.D. in Physics 1975
CAREER:	UNIVERSITY OF CALIFORNIA, LOS ANGELES Assistant and Associate Research Physicist, 1976-1980
	THE UNIVERSITY OF TEXAS AT AUSTIN: 1980-2001 Assistant, Associate, Full Professor of Physics, and The Jane and Roland Blumberg Professor in Physics, 1980-2001 (also, Professor of Computational and Applied Math)
	Lawrence Livermore National Laboratory, University of California: 1998-2001 Special Assistant to the Associate Director
	Stanford Linear Accelerator Center, Stanford University: 2000-2002 Special Project
	Japan Atomic Energy Research Institute (later, Japan Atomic Energy Agency): 2002-2008
	Director General: Kansai Photon Science Institute, and Deputy Director General: Quantum Beam Science Directorate also Director : Photo Medical Research Center (2007-2008)
	KEK High Energy Accelerator Laboratory, Tsukuba: 2008-

	Specially Appointed Professorship; Guest Professor
	Japan Atomic Energy Agency: 2008-2012 Specially Appointed Researcher; Guest Researcher
	Ludwig Maximilian University: 2008-2011 Chair Professor, Munich Advanced Centre Fellow
MEMBER:	SSC Laboratory, 1989-1993 Lawrence Berkeley Laboratory, University of California, Berkeley, (Affiliated) 1995-2000
	Department of Applied Science, University of California at Davis,1999-2000
HONORS:	<ul> <li>(primary)</li> <li>Fellow, American Physical Society (for laser acceleration)</li> <li>Farrington Daniels Award (2005) (for laser driven particle therapy)</li> <li>Suwa Prize (2006) (laser acceleration)</li> <li>Nishina Memorial Prize (2006) (laser acceleration)</li> <li>The Blaise Pascal Chair awarded (2009) (high field science)</li> <li>Einstein Professorship of Chinese Academy of Science (2013) (high field science)</li> <li>(others)</li> <li>Fellow, Japan Society for the Promotion of Science</li> <li>Member, National Research Council (Commission H) of the National Academy of Science (global magnetospheric dynamics)</li> <li>Robert W. Hamilton Award (1997, University Cooperative Society) (plasma astrophysics)</li> <li>JAERI Excellence Prize (1999) (high field science simulation)</li> <li>Fellow, JAEA (2008) (photo-medical research)</li> <li>JAEA President's Award (2008) (relativistic mirror)</li> <li>Achievement Prize, Laser Society of Japan (2012) (laser engineering)</li> </ul>
DISTINGUISHED	<ul> <li>LECTURES (recent selected ones only)</li> <li>Galileo Galilei Colloquium (University of Pisa, Jan. 2009)</li> <li>Plenary Lecture of SPIE ((Prague, April, 2009)</li> <li>Magistral Lecture (Ultraintense Laser Interaction Science), May, 2009)</li> <li>30<sup>th</sup> Anniversary Lecture of Laser Acceleration, Abdus Salam International Centre for Theoretical Physics (Trieste, Aug., 2009)</li> <li>440<sup>th</sup> Heraeus Seminar (Frauenwoerth, Sept., 2009)</li> <li>History and Future of Laser Technology on 50<sup>th</sup> Anniversary of Laser Invention (AAAS, San Diego, Feb., 2010)</li> <li>CERN Accelerator Lecture( CERN, June, 2010)</li> <li>Physics in Intense Fields Lecture (KEK, Nov., 2010)</li> <li>Blaise Pascal Lectures (Ecole Polytechnique, Oct. 2009-Dec.2010)</li> <li>Laser 50<sup>th</sup> anniversary Lecture (Paris, June, 2010)</li> <li>Laser Physics 2012 Plenary Lecture (Calgary, July, 2012)</li> </ul>

IZEST Lecture (Strathclyde, Nov., 2012) ASEPS Plenary Lecture (Chiba, July, 2013) Einstein Lectures (Shanghai, Sept., 2013)

MEMBERSHIPS: Physical Society of Japan Beta Alpha Phi American Physical Society American Geophysical Union American Astronomical Society Laser Society of Japan

## COMMITTEE SERVICE (some of):

GRADUATE STUDENTS Chairman, International Conference on Laser 1983 (San Francisco) Management Committee, Joint Institute for Fusion Theory (1984-1998) International Conference on Supercomputing co-organizer (1985) Steering Committee, Texas High Energy Physics Committee (1989-1993) Fellowship Committee, American Physical Society (1999,2001) Science and Technology Council, Laser Directorate, Lawrence Livermore National Laboratory (1999) Executive Committee, American Physical Society, Plasma Astrophysics (1999-2001) Laser Society of Japan, Steering Member and Director of 2005 Organizers International 'Laser Physics 2005', Co-Chair Trilateral Committee for Intense Lasers (Japan-China-Korea), Co-Chair (2005-2008)Chair, Beam Physics Division, Physical Society of Japan (2004-2008) Chair, Beam Physics Council of Japan (2004-2008) International Committee for Ultra Intense Lasers, Co-Chair (2006-2008); Chairman (2008-) Deputy Chair, Accelerator Society of Japan (2008-2010) Max Born Institute, Scientific Advisory Board (2006-) Extreme Light Infrastructure, Scientific Advisory Committee, Chairman (2008-2011) International Linear Collider Global Design Effort, Accelerator Advisory Panel (2009-)Institute Lumiere Extreme, Scientific Advisory Board (2010-) Extreme Light Infrastructure-Nuclear Pillar, International Advisory Board (2011-)THE UNIVERSITY OF TEXAS AT AUSTIN

26 Ph.D. students (R. Sydora, J. Geary, E. Zaidmann, M. LeBrun, T. Kurki-Suonio, G. Bust, A. McAllister, S. Cable, R. Kinney, J. Koga, J. Cobb, B. Chen, D. Barnett, D. Fisher, G. Tarhenton, G. Furnish, D. Wolf, W. Nystrom, J. Daniel, M. Ottinger, B. Rau, W. Chou, X. Chen, C. Lai, K. Noguchi, S. Cheshkov) and 8 MSc students(T. Fujinami, C. Haswell,

	<ul> <li>K. Lee, Z. Lin, U. Dittmann, R. Jones, F. Breitling, F. Raischel) supervised.</li> <li>Ludwig Maximilian University 5 PhD students co-supervised (dissertation committee) (S. Rykovanov, K. Schmid, M. Fuchs, A. Henig, A. Buck)</li> <li>University of California at Irvine 1 MS student (P. C. Yeh)</li> </ul>
TEACHING:	<ul> <li>The University of Texas at Austin, Department of Physics, Graduate and Undergraduate Courses</li> <li>University of California at Davis, Department of Applied Science, Graduate Courses</li> <li>Ludwig Maximilian University of Munich, Faculty of Physics, Graduate Courses</li> <li>University of California at Irvine, Graduate Courses</li> </ul>