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Gernot Laicher

Education	<p>1984 Vordiplom (Physics), Universität Würzburg (Germany) 1986 M.A. (Physics), SUNY at Buffalo 1994 Ph.D. (Physics), University of Utah</p>
Career Path	<p>1986-1987 MR Application Scientist, Siemens Medical Systems, Iselin, NJ. 1987-1994 Teaching and Research Assistant, Department of Physics, University of Utah. 1994-1997 Postdoctoral Research Assistant, Department of Physics, University of Utah. 1998-2006 Research Assistant Professor, Department of Physics, University of Utah. 2006-2018 Research Associate Professor, Department of Physics & Astronomy, University of Utah 2018- Professor (Lecturer), Department of Physics & Astronomy, University of Utah</p>
Publications since 2006	<p>K.R. Minard, R.E. Jacob, G. Laicher, D.R. Einstein, A.P. Kuprat, R.A. Corley, <u>MR imaging of apparent ^3He gas transport in narrow pipes and rodent airways</u>. <i>J. Magn. Reson.</i> 194: 182-191 (2008). R.E. Jacob, K.R. Minard, G. Laicher, C. Timchalk, <u>3D ^3He diffusion MRI as a local in vivo morphometric tool to evaluate emphysematous rat lungs</u>. <i>J. Appl. Physiol.</i> 105:1291-1300.(2008). R.E. Jacob, G. Laicher and K. Minard, <u>3D MRI of non-Gaussian ^3He gas Diffusion in the Rat Lung</u>. <i>J. Magn. Reson.</i> 188, 357-366 (2007). D.C. Ailion and G. Laicher. <u>MR of Lung</u>. in "Looking into Living Things Through Magnetic Resonance Imaging", Prizm Publications, Mumbai, India (2006). B.N. Berry-Pusey, B.C. Anger, G. Laicher, and B. Saam, <u>Nuclear Spin Relaxation of ^{129}Xe due to Persistent Xenon Dimers</u>. <i>Phys. Rev. A</i> 74 , 063408 (2006).</p>
Awards/Honors	<p>1997 - Outstanding Postdoctoral Teaching Award 1998 - Outstanding Postdoctoral Teaching Award 2005 - Honorary Member AAPT (American Association for Physics Teachers) 2019 – University of Utah Distinguished Teaching Award</p>
Courses Instructed	<p>Physics 1809 (General Physics Lab) Spring and Fall 2000 –2015 Spring 2016 – 2018</p>

	<p>Physics 2015 (General Physics Lab I) Spring and Fall 2000 –2017</p> <p>Physics 2025 (General Physics Lab II) Spring and Fall 2000 –2017 Spring 2018</p> <p>Physics 2220 (Physics for Scientists and Engineers II) Summer 2009</p> <p>Physics 2215 (Physics Lab for Scientists and Engineers I) Spring and Fall 2000 –2023 Spring 2023</p> <p>Physics 2225 (Physics Lab for Scientists and Engineers II) Spring and Fall 2000 –2023 Spring 2023</p> <p>Physics 3410/3411/6750/6751 (Modern Optics - Lab) Fall 2009 – 2015</p> <p>Physics 3410/6750 (Foundations of Modern Optics - Lab) Fall 2016-Fall 2020 Spring 2022-2024</p> <p>Physics 6775 (Optical Measurement Techniques and Instrumentation Lab) Spring 2010 – 2020 Fall 2022-2023</p> <p>Physics 5760/6760 (Principles of Physical Measurement and Instrumentation Lab) Spring and Fall 2018 Fall 2019</p>
<p>Service / Outreach (Gernot Laicher)</p>	<p>Physics Advanced Placement Program (organized a lab class for high school students at the Physics & Astronomy Department 2000-2017</p> <p>Women’s ACCESS Program (participated in teaching summer course) Summer 2010, 2011, 2012, 2013, 2014</p> <p>Women’s ACCESS Program Selection Committee 2013, 2014, 2015</p> <p>MSSST Program (participated in teaching high school math teachers to learn more about applications of mathematics in science)</p>

	<p>2010, 2011</p> <p>REFUGES Program (participated in teaching summer course)</p> <p>2013, 2014</p> <p>College Council (2020-2022)</p>
Past Training	<p>2019 Summer Institute on Scientific Teaching (June 17th – June 21st 2019, University of California, San Diego). Participant.</p> <p>2019 PICUP Summer Faculty Development Workshop (July 8th-14th 2019, University of Wisconsin in River Falls). Participated in PICUP (Project for the Integration of Computing in Undergraduate Physics).</p>
Past Funding	<p>University of Utah Teaching Grant 2017 (Group teaching grant with Clayton Williams (PI), Development of research experience based measurement laboratory)</p> <p>University of Utah Teaching Grant 2019 (Workshop Participation PICUP and Summer Institute on Scientific Teaching)</p>
Past Presentations	<p>A Research Experience Based Measurement Laboratory Course (Gernot Laicher and Clayton C. Williams) AAPT Summer Meeting 2018, Washington DC.</p>
Member of Current and Recent Ph.D. and Master's Committees	<p>Current: None</p> <p>Past: Tiffany Swensen (MSSST Committee) Mike Valdez (MSSST Committee) Christian Lawrence (PMST Committee) Giancarlo Aguirre (PMST Committee) John Metcalf (Master's Committee) Julia Russ (Master's Committee) Bijaya Thapa (Ph.D. Committee) Dustin Ollis (PMST Committee) Nabraj Sapkota (Ph.D. Committee) Kyle Jeong (Master's Committee) Ilya Reznik (Master's Committee) Veronika Burobina (Master's Committee) Xiangyi Luo (Master's Committee)</p>
Other Committees	<p>Current: Department Committees (Safety) Department Committees (Student Awards)</p> <p>Recent: Career-line RPT committees in Math Department (5 career-line faculty) College Council (2020-2022) Department Committees (Teaching Excellence) Department Committees (Advanced Student Laboratory and Move Committee) Department Committee (Program Development – Undergrad)</p>

	<p><i>Career Faculty Search Committee (Physics Educator)</i> <i>Department Committee (Program Development – Undergrad)</i> <i>Department Committee (Medical Physics)</i> <i>Department Committee (Biophysics Program)</i> <i>Department Committee (Medical Physics)</i> <i>Department Committee (SP 4th floor Renovation)</i></p>
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