

ROBERT SVOBODA

PROFESSIONAL PREPARATION

University of California, Irvine	Postdoctoral Fellow, Physics	1985-1989
University of Hawaii	Ph.D., Physics	1980-1985
U.S. Navy Officer	Nuclear Power	1975-1980
Florida State University	B.S., Physics	1971-1974

APPOINTMENTS

- SNO+ Board Chair-Elect (2016-).
- Co-Spokesman of WATCHMAN Project (2012-2016)
- Co-Spokesman of LBNE (2010-2013)
- Head of UC Davis Neutrino Physics Group (2007-)
- Professor, University of California, Davis (2006-)
- Joint Appointment, Lawrence Livermore National Lab (2006-2009)
- US DOE Co-Spokesman Double Chooz (2005-2012)
- Super-Kamiokande head of DT Generator design, fabrication, deployment (1997-2005)
- KamLAND head of laser and AmBe source design, fabrication, deployment (1997-2002)
- Super-Kamiokande Solar Neutrino Group Co-Convener (1994-2003)
- Professor, Louisiana State University (1989-2005)
- IMB Experiment, Co-Head of Data Analysis Group (1985-1992).
- IMB Experiment, DAQ and Detector Operations (1985-1992).

PRODUCTS

Five Most Closely-Related Products:

- [1] Y.Abe, *et al.* [Double Chooz Collaboration] *Muon capture on light isotopes measured with the Double Chooz detector*, Phys. Rev. C **93**, 054608 (2016)
- [2] N.Barros, T.Kaptanoglu, B.Kimelman, J.R.Klein, E.Moore, J.Nguyen, K.Stavreva, R.Svoboda, *Characterization of the ETEL D784UKFLB 11 inch Photomultiplier Tube*, submitted to NIM A (2016) <https://arxiv.org/abs/1512.06916>
- [3] S.Andringa, *et al.* [SNO+ Collaboration] *Current Status and Future Prospects of the SNO+ Experiment*, Advances in High Energy Physics, **2016**, 6194250 (2016)
- [4] I.Anghel, J.F.Beacom, M.Bergevin, C.Blanco, E.Catano-Mur, F.DiLodovico, A.Elagin, H.Frisch, J. Griskevich, R.Hill, G.Jocher, T.Katori, F.Krennrich, J.Learned, M.Malek, R.Northrop, C.Pilcher, E. Ramberg, J.Repond, R.Sacco, M.C.Sanchez, M.Smy, H.Sobel, R.Svoboda, S.M.Usman, M.Vagins, G. Varner, R.Wagner, A.Weinstein, M.Wetstein, L.Winslow, L.Xia, M.Yeh *The Accelerator Neutrino Neutron Interaction Experiment*, arXiv:1504.01480 (2015) <https://arxiv.org/abs/1504.01480>
- [5] J.R.Alonso, N.Barros, M.Bergevin, A.Bernstein, L.Bignell, E.Blucher, F.Calaprice, J.M.Conrad, F.B. Descamps, M.V.Diwan, D.A.Dwyer, S.T.Dye, A.Elagin, P.Feng, C.Grant, S.Grullon, S.Hans, D.E.Jaffe, S.H.Kettell, J.R.Klein, K.Lande, K.B.Luk, J.Maricic, P.Marleau, A.Mastbaum, W.F.McDonough, L. Oberauer, G.D.Orebi Gann, R.Rosero, S.D.Rountree, M.C.Sanchez, M.H.Shaevitz, T.M.Shokair, M.B. Smy, A.Stahl, M.Strait, R.Svoboda, N.Tolich, M.R.Vagins, K.A.van Bibber, B.Viren, R.B.Vogelaar, M. J.Wetstein, L.Winslow, B.Wonsak, E.T.Worcester, M.Wurm, M.Yeh, C.Zhang, *Advanced Scintillator Detector Concept: A Concept Paper on the Physics Potential of Water-Based Liquid Scintillator*, arXiv:1409.5864 (2014)

Five Other Significant Products:

- [1] Y.Abe, *et al.* [Double Chooz Collaboration] *Indication for the disappearance of reactor anti-electron neutrinos in the Double Chooz experiment*, PRL **108** 131801 (2012)
- [2] K.Eguchi, *et al.* (KamLAND Collaboration), "First results from KamLAND: Evidence for reactor anti-neutrino disappearance," Phys.Rev.Lett. 90 021803 (2003)
- [3] Y.Fukuda, *et al.* (Super-K Collaboration), "Evidence for the Oscillation of Atmospheric Neutrinos," Phys.Rev.Lett. 81 1562 (1998)
- [4] D.Casper, *et al.*(IMB Collaboration) , "Measurement of Atmospheric Neutrino Composition with the IMB-3 Detector," Phys.Rev.Lett. 66 2561 (1991)
- [5] R.M.Bionta, *et al.* (IMB Collaboration), "Observation of a Neutrino Burst in Coincidence with Supernova 1987A," Phys.Rev.Lett. 58 1494 (1987)

RECENT SYNERGISTIC ACTIVITIES

- Member, U.C. Berkeley Nuclear Engineering Advisory Board (2015-present)
- Member, APS Coordinating Panel for Advanced Detectors (CPAD) (2011-present)
- Instructor, SLAC Summer Institute (2016)
- Instructor, Summer School on Nuclear Analytical Techniques (2012-2016)

COLLABORATORS AND OTHER AFFILIATIONS

Collaborators and Co-editors (18 total):

- SNO+ Collaboration: J. Klein (Penn), E. Blucher (Chicago), G. Orebi Gann (Berkeley), S. Biller (Oxford), J. Hartnell (Sussex), M. Chen (Queens), A. MacDonald (Queens), M. Yeh (BNL)
- CAPTAIN Collaboration: C. McGrew (Stonybrook), C. Mauger (LANL), L. Whitehead (Houston), K.Rielage (LANL), J.Maricic (Hawaii).
- ANNIE Collaboration: M. Sanchez (Iowa State), M. Wetstein (Iowa State), F. Di Lodovico (QMULS), M. Smy (UC Irvine), H. Sobel (UC Irvine), M.Malek (Sheffield)

Graduate and Postdoctoral Advisors and Advisees:

- Postdoctoral sponsor Fred Reines (1985-1989) University of California, Irvine
- Ph.D. advisor John Learned (1981-1985) University of Hawaii.

Postdoctoral advisees in Last Five Years (6 total):

Jingbo Wang UC Davis (2016-present), Leon Pickard UC Davis (2016-present), Vincent Fischer UC Davis (2015-present), Chris Grant UC Davis (2012-2016), Marc Bergevin LLNL (2010-2015), Tim Classen LLNL (2007-2011)

Thesis student advisees (14 total):

Ph.D. students: • Steven Gardiner - present • Teal Pershing - present • Morgan Askins - present • Nick Walsh - 2016 • Justin Dhooche - present • John Felde - 2013 • Cara Maesano - 2012 • Jerry Coleman - 2009 • Eric Blaufuss - 2000 • Rob Sanford - 1999 • Russell Clark - 1997
M.S. students: • Mingqian Chen - 2016 • Mitsuko Murakami - 2000 • Richard Miller - 1993