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EDUCATION

- 1999 Ph.D. in Electrical Engineering rst of om g, Laramie, WY
 1995 Master of Science in Electrical Engineering rst of om g, Laramie, WY
- 1992 Bachelor of Science in Electrical Engineering rst of om g, Laramie, WY

PROFESSIONAL QUALIFICATIONS

Jun 2007-Registered Professional Engineer, Stat of Iaska,, License #: 11793present

TEACHING/INSTRUCTION

Jun 2018- present	Professor, rst of laska a rba ks
	Advising and instruction at the undergraduate and graduate level in Power and Controls.
Jul 2006- Jun 2018	Associate Professor, rst of laska a rba ks
	Advising and instruction at the undergraduate and graduate level in Power and Controls.
Aug 1999- Jun 2006	Assistant Professor, rst of laska a rba ks
	Advising and instruction at the undergraduate and graduate level in Power and Controls.
	<u>Courses instructed</u> : Electric Machinery (\boxplus 303), Electrical Power Systems (\boxplus 404), Electrical Power Engineering (\boxplus 406), Power Electronics Design (\boxplus 408/608), Digital Control Systems (\boxplus 671), and special topic courses (\boxplus 693) in Adaptive Filtering, Nonlinear Systems, and Renewable and Sustainable Energy Systems.
Summer 2002- 2007	Alaska Summer Research Academy, rst of laska a rbaks Lead instructor for junior high and high school students for Electrical Engineering unit dealing with power and energy.
Spring 1999	Assistant Lecturer, rst of om g Instructor for senior Electrical Engineering course in Power Systems.

RESEARCH EXPERIENCE

Aug 1999-Principal Investigator,rst of laska a rba ks

present

1) USDepartment of Energy Office of Electricity Grid Modernization Laboratory Consortium through Pacific Northwest National Laboratory (PNNL) (\$156.94k: Oct 2017-Mar 2019)

-Development of an energy storage monitoring and optimization application for the PNNL GridAPPS-D platform to assist operators in electric utilities with microgrids comprised of intermittent renewables and energy storage.

2) Iowa Department of Transportation Aurora Pooled Fund Consortium (\$30k: Jun 2016

10) USDepartment of Energy

7) USDepartment of Energy

RICHARD W. WIES, Ph. D., P. E.

3) USDepartment of Defense (\$2M: Jan 2005-Dec 2007)

S

1) R. W. Wies, MicroFEWS

13) R. W. Wies

, Tromsø, Norway, Jan 2012.

14) R. W. Wies Wind-

, Tromsø, Norway, Jan 2012.

15) R. W. Wies and D. S. Pozo -Efficient Wind-Diesel Generation Systems Employing Smart Grid , Girdwood, AK, Mar

2011.

16) R. W. Wies, R. A. Johnson, and J. D. Aspnes -Efficient Standalone Distributed Generation System Employing Renewable Energy Sources and Smart Grid Technology as a Student

Minneapolis, MN, Jul 2010. DOI: 10.1109/ PES2010.5590089 (17 citations IE)

17) DEL Barbes, R. A. Johnson, R. W. Wies

, American Society of Ovil Engineers, Duluth, Minnesota, Aug 2009. DOI: http://dx.doi.org/10.1061/41072(359)49 (32 downloads

- 27) S Bogosyan, M. Gokasan, A. Turan and R. W. Wies, "Development of Remotely Accessible Matlab/Smulink Based Electrical Drive Experiments," 2007 IEE International Symposium on Industrial Electronics, Vigo, Jun 2007, pp. 2984-2989. DOI: 10.1109/ISE2007.4375090 (8 citations IE)
- 28) R. W. Wies Village Metering and Power Study , Session T5-C, Fairbanks, AK, Apr 2007.
- 29) R. W. Wies, A. Balasubramanian, and J. W. Pierre and Auto-Regressive Block Processing Techniques for Estimating the Low Frequency

, Montreal, Canada, Jun 2006. DOI: 10.1109/ PES 2006.1709578 (15 citations

IE)

30) R. W. Wies, A. Balasubramanian, and J. W. Pierre, Using Adaptive Step-Sze Least Mean Squares (ASLMS) for Estimating Low-Frequency Electromechanical Modes in Power Systems

, Stockholm, Sweden,

Jun 2006. DOI: 10.1109/ PMAPS 2006.360409 (19 citations GS)

31) R. W. Wies, A. N. Agrawal, R. A. Johnson, and T. J. Chubb

RICHARD W. WIES, Ph. D., P. E.

41) R. W. Wies	-Battery System for , Asian Institute of		
Technology, Bangkok, Thailand, Jan 2004.			
42) N. Zhou, J. W. Pierre, and R. W. Wies	-Frequency Electromechanical Modes of		
, Oct 2003.			
43) R. W. Wies	Use of ARMA Block Processing for Estimating		
Stationary Low-Frequency Electromechanical Modes of Power Systems,			
, vol. 18, no. 1, pp. 167-173, Jul 2003.			
	09/PES2003.1270937 (3 paper and 1 patent citation IE)		
44) R. W. Wies Di	-Turbine Generators (WTGs) into Hybrid		
	, Whitehorse, Yukon Terr. Canada, May		
2003.			
45) R. W. Wies			
, paper 379-190, pp. 241-246, Feb 2003. 46) M. G. Anderson, J. W. Pierre, and R. W. Wies			
	55		
, Tempe	e, Arizona, Oct 2002.		
47) R. W. Wies and J D.	-Efficient Hybrid Power Source for Remote		
Service 2122 percer 2002 1280 his 2002 (FQ downloadofrom AST)		
Session 2133, paper 2002-1289, Jun 2002. (48) R. W. Wies	Aean Squares (LMS) Adaptive Filtering Technique for		
Estimating Low-	viean Squares (LIVIS) Adaptive mitering red inique for		
Asok Ray and Joe H. Chow, Chairs,	, paper		
ACC02-IEEE1025, May 2002.	. DOI:		
10.1109/ AOC.2002.1025429 (4 citations IE)			
49) R. W. Wies	Cront P		
Gerhart, Robert W. Gunderson, Chuck M. S 263-272, Jul 2000. DOI: 10.1117/12.391637	, Grant R hoemaker, Editors, Proceedings of SPIE Vol. 4024, pp. (1 citation GS)		

SCIENTIFIC AND PROFESSIONAL SOCIETY MEMBERSHIPS

RICHARD W. WIES, Ph. D., P. E.

Journal Manuscript Reviewer: IEEE Transactions on Power Systems (1997-pres), Education (2000-