

Jeffrey D. Bierman

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Spokane, Washington 99206
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509-313-6768 (work)
BIERMAN@GONZAGA.EDU

EDUCATION:

Doctor of Philosophy, Experimental Nuclear Physics, University of Washington (December 1995)

Dissertation Title: Experimental Determination of the Distribution of Fusion Barriers for the Systems $^{40}\text{Ca} + ^{192}\text{Os}$, ^{194}Pt .

Master of Science, Physics, University of Washington (December 1991)

GPA: 3.7 on a 4.0 scale.

Bachelor of Arts, Hastings College (May 1990)

Summa Cum Laude with High Distinction in both Physics and Mathematics.

GPA: 4.0 on a 4.0 scale.

PROFESSIONAL EXPERIENCE:

Aug. 04 - present	Full Professor of Physics , Gonzaga University
Aug. 00 - Aug 04	Associate Professor of Physics , Gonzaga University
Aug. 96 - Aug 00	Assistant Professor of Physics , Gonzaga University
Sept. 95 - June 96	Physics Instructor , Green River Community College
Jan. 96 - Apr. 96	Postdoctoral Assistant , Nuclear Physics Laboratory, University of Washington
Mar. 94 - Dec 95 June 90 - Sep. 93	Predoctoral Research Assistant , Nuclear Physics Laboratory, University of Washington
Sept. 93 - Mar 94	Teaching Assistant , Physics Department, University of Washington
June 93 - June 95	Czar of Crew Training - Responsible for training all new hourly Tandem Accelerator Employees in Tandem operations and maintenance methods, Nuclear Physics Laboratory, University of Washington

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PUBLICATIONS BEFORE ARRIVING AT GONZAGA:

J.D. Bierman, A.W. Charlop, D.J. Prindle, R. Vandenbosch, and D. Ye, "Rotational State Populations in $^{16}\text{O} + ^{154}\text{Sm}$ Near-Barrier Fusion", *Physical Review C* **48**, 319(1993).

A.Charlop, J.D. Bierman, Z. Drebi, A. Garcia, D. Prindle, A.A. Sonzogni, R. Vandenbosch, D. Ye, S. Gil, F. Hasenbalg, J.E. Testoni, D. Abriola, M. di Tada, A. Etchegoyen, M.C. Berisso, J.O. Fernandez-Niello, and A.J. Pacheco, "Absence of Anomalous Entrance Channel Effects in Sub-Barrier Heavy Ion Fusion", *Physical Review C* **49**, R1235(1994).

A. Charlop, J. Bierman, Z. Drebi, S. Gil, A. Sonzogni, R. Vandenbosch, and D. Ye, "Fusion-fission cross sections for $^{32}\text{S} + ^{138}\text{Ba}$ and $^{48}\text{Ti} + ^{122}\text{Sn}$ at near-barrier energies", *Physical Review C* **51** 623(1995)

A. Charlop, J. Bierman, Z. Drebi, A. Garcia, S. Gil, D. Prindle, A. Sonzogni, R. Vandenbosch, and D. Ye, "Search for entrance channel effects in sub-barrier fusion reactions.", *Physical Review C* **51** 628(1995)

J.D. Bierman, P. Chan, J.F. Liang, M.P. Kelly, A.A. Sonzogni and R. Vandenbosch, "Experimental Fusion barrier distribution fingerprints reflecting projectile octupole state coupling to prolate and oblate target nuclei", *Physical Review Letters* **76** 1587 (1996).

PUBLICATIONS SINCE ARRIVING AT GONZAGA:

Prior to promotion to Associate Professor

R. Vandenbosch, J.D. Bierman, J.P. Lestone, J.F. Liang, D.J. Prindle, A.A. Sonzogni, S. Kailas, D.M. Nadkarny and S.S. Kapoor, "Disappearance of Entrance Channel Dependence of Fission Fragment Anisotropies at Well-Above-Barrier Energies", *Physical Review C* **54**, R977 (1996)

J.D. Bierman, P. Chan, J.F. Liang, M.P. Kelly, A.A. Sonzogni and R. Vandenbosch, "Experimental Fusion Excitation Functions and Derived Barrier Distributions for Heavy Ion Systems Involving Prolate and Oblate Targets", *Physical Review C* **54** 3068 (1996).

Continued on next page.

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PUBLICATIONS SINCE ARRIVING AT GONZAGA (CONTINUED):

J.F. Liang, J.D. Bierman, M.P. Kelly, A.A. Sonzogni, R. Vandenbosch and J.P.S. van Schagen, "Entrance Channel Dependent Light-Charged Particle Emission of the ^{156}Er Compound Nucleus", *Physical Review Letters* **78** 3074 (1997).

J.D. Bierman, P. Chan, J.F. Liang, M.P. Kelly, A.A. Sonzogni and R. Vandenbosch, "Reply to Comment...", *Physical Review Letters* **78**, 3976 (1997).

J.F. Liang, J.D. Bierman, M.P. Kelly, A.A. Sonzogni, R. Vandenbosch and J.P.S. van Schagen, "Dissipative effects in the formation of the ^{156}Er compound nucleus", *Physical Review* **C56**, 908 (1997).

R. Vandenbosch, A.A. Sonzogni and J.D. Bierman, "Effects of Shape and Transfer Degrees of Freedom on Sub-barrier Fusion", *J. Phys. G: Nucl. Part.* **23** 1303 (1997).

A.A. Sonzogni, J.D. Bierman, M.P. Kelly, J.P. Lestone, J.F. Liang, and R. Vandenbosch, "Transfer and Surface Barrier Couplings in the Fusion of $^{40}\text{Ca} + ^{46,48,50}\text{Ti}$ at Near-Barrier Energies", *Physical Review* **C57** 722 (1998).

S. Kailas, D.M. Nadkarni, A. Chatterjee, A. Saxena, S.S. Kapoor, R. Vandenbosch, J.P. Lestone, J.F. Liang, D.J. Prindle, A.A. Sonzogni and J.D. Bierman, "Fission fragment folding angle distributions for the systems $^{11}\text{B} + ^{237}\text{Np}$, $^{12}\text{C} + ^{236}\text{U}$, and $^{16}\text{O} + ^{232}\text{Th}$ in the energy range $1.1 < \frac{E}{V_B} < 2.1$ ", *Physics Review* **C59** 2580 (1999).

Publications since promotion to Associate Professor

J.F. Liang, D. Shapira, J.R. Beene, J.D. Bierman A. Galindo-Uribarri, J. Gomes del Campo, C.J. Gross, M.L. Halbert, T.J. Harding, A.I.D. MacNab, S.P. McNeal, R.L. Varner and K. Zhao, "Detection of fusion residues from inverse kinematic reactions using a gas filled split-pole spectrograph.", *Nuclear Instruments & Methods in Physics Research, Section A* **435**, 393-401, 1999.

"Breakup of ^{17}F by ^{208}Pb near the Coulomb barrier" J.F. Liang, J.R. Beene, J.D. Bierman, H. Esbensen, A. Galindo-Uribarri, J. Gomez del Campo, C.J. Gross, M.L. Halbert, P.E. Mueller, D. Shapira, D.W. Stracener, R.L. Varner, "Breakup of ^{17}F by ^{208}Pb near the Coulomb barrier", *Bull. Am. Phys. Soc.* **47**, 92 (2002).

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PUBLICATIONS SINCE ARRIVING AT GONZAGA (CONTINUED):

J.F. Liang, J.R. Beene, A. Galindo-Uriabbarri, J. Gomez del Campo, C.J. Gross, P.A. Hausladen, P.E. Mueller, D. Shapira, D. W. Stracener, R.L. Varner, J.D. Bierman, H. Esbensen, and Y. Larochelle, "Breakup of ^{17}F on ^{208}Pb near the Coulomb barrier.", *Physical Review* **C67**, 044603 (2003).

J.F. Liang, D. Shapira, C.J. Gross, J.R. Beene, J.D. Bierman, A. Galindo-Uriabbarri, J. Gomez del Campo, P.A. Hausladen, Y. Larochelle, W. Loveland, P.E. Mueller, D. Peterson, D.W. Stracener, R.L. Varner, "Evaporation residue cross sections of $^{132}\text{Sn}+^{64}\text{Ni}$ measured near the Coulomb barrier", *Bull. Am. Phys. Soc.* **48**, 212 (2003).

J. Bierman and E. Kincanon, "Reconsidering Archimedes Principle.", *The Physics Teacher* Vol 41, Sep. 2003, Pg 49.

J.F.Liang, D. Shapira, C.J. Gross, J.R. Beene, J.D. Bierman, A. Galindo-Uriabbarri, J. Gomez del Campo, P.A. Hausladen, Y. Larochelle, W. Loveland, P.E. Mueller, D. Peterson, D.C. Radford, D.W. Stracener, and R.L. Varner, "Enhanced Fusion-Evaporation Cross Sections in Neutron Rich ^{132}Sn on ^{64}Ni ", *Physical Review Letters*, **91**, 152701, 2003.

J.F. Liang, D. Shapira, C.J. Gross, R.L. Varner, H. Amro, J.R. Beene, J.D. Bierman, A.L. Caraley, A. Galindo-Uriabbarri, J. Gomez del Campo, P.A. Hausladen, K. Jones, J.J. Kolata, Y. Larochelle, W. Loveland, P.E. Mueller, D. Peterson, D.C. Radford and D.W. Stracener, "Sub-barrier fusion induced by neutron-rich radioactive ^{132}Sn ", *Proceedings of The 4th International Conference on Exotic Nuclei and Atomic Masses*, Sep 12-16th, 2004, Pine Mountain GA, USA.

D. Shapira, F. Liang, C.J. Gross, R.L. Varner, J.R. Beene, A. Galindo-Uriabbarri, J. Gomez del Campo, P. Mueller, D. Stracener, P.A. Hausladen, C. Harlin, J.J. Kolata, H. Amro, W. Loveland, K.L. Jones, J.D. Bierman and A.L. Caraley, "Measurement of evaporation residue cross sections from reactions with radioactive neutron rich beams.", *Proceedings of The 4th International Conference on Exotic Nuclei and Atomic Masses*, Sep 12-16th, 2004, Pine Mountain GA, USA.

A. Greer and J. Bierman, "Challenge Labs.", *The Physics Teacher* Vol 43, Oct. 2005, Pg 7.

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PUBLICATIONS SINCE ARRIVING AT GONZAGA (CONTINUED):

J.F.Liang, D. Shapira, C.J. Gross, J.R. Beene, J.D. Bierman, A. Galindo-Uribarri, J. Gomez del Campo, P.A. Hausladen, Y. Larochelle, W. Loveland, P.E. Mueller, D. Peterson, D.C. Radford, D.W. Stracener, and R.L. Varner, "Erratum: Enhanced Fusion-Evaporation Cross Sections in Neutron Rich ^{132}Sn on ^{64}Ni ", Physical Review Letters, **96**, 029903, 2006.

J.F. Liang, D. Shapira, J.R. Beene, C.J. Gross, R.L. Varner, A. Galindo-Uribarri, J. Gomez del Campo, P.A. Hausladen, P.E. Mueller, D.W. Stracener, J. Amro, J.J. Kolata, J.D. Bierman, A.L. Caraley, K.L. Jones, Y. Larochelle, W. Loveland and D. Peterson, "Fusion of radioactive ^{132}Sn with ^{64}Ni ", Physical Review **C75** 054607, 2007.

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PRESENTATIONS:

R. Gibbons, M. Watkins, J. Bierman, "The fusion fission reaction channel for $^{19}\text{F} + ^{181}\text{Ta}$. How much is complete?", Fall 97 Murdock Trust meeting, Oct 97. Student Poster Presentation.

M. Watkins, R. Gibbons, J. Bierman, "The fusion fission reaction channel for $^{19}\text{F} + ^{181}\text{Ta}$. How much is complete?", Fall 97 Washington State AAPT Section meeting, Oct 97. Student Presentation.

J.D. Bierman, "Using the VCR as a stroboscope", Fall 1998 Washington State AAPT section meeting, October 10, 1998, at Seattle Pacific University, Faculty Presentation.

S. McNeil, T. Harding, and J. Bierman, "The importance of Proton Transfer Regarding Fusion Enhancement in the Barrier Region", Fall 98 Murdock Trust meeting, Nov 5th, 1998, Northwest Nazarene College, Student Poster Presentation.

T. Harding, S. McNeil and J. Bierman, "The importance of Proton Transfer Regarding Fusion Enhancement in the Barrier Region", Fall 98 Murdock Trust meeting, Nov 5th, 1998, Northwest Nazarene College, Student Presentation.

J.D. Bierman, "Simple Harmonic Motion Disks", Fall Washington State AAPT section meeting, October 9, 1999, at University of Puget Sound, Faculty Presentation.

J.D. Bierman and A.J. Greer, "Challenge Labs.", Fall Washington State AAPT section meeting, October 7th, 2000, at Central Washington University, Faculty Presentation.

E. Kincanon and J.D. Bierman, "The Odd Motion of a Pendulum on a Cart.", 38th Conference of the Pacific Northwest Association of College Physics, March 30th, 2001, at the University of Washington, Faculty Presentation.

E. Kincanon and J.D. Bierman, "Reconsidering Archimedes Principle.", Fall Washington State AAPT section meeting, October 13th, 2001, at Western Washington University, Faculty Presentation.

J.D. Bierman, "Simple Harmonic Motion Disks", Winter AAPT National Meeting, Jan 15, 2003, at Austin TX, Faculty Presentation.

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PRESENTATIONS (continued) :

J.D. Bierman, "Sometimes the More Math we do, the less Physics we see.", 40th Conference of the Pacific Northwest Association of College Physics, March 29th, 2003, at the Museum of Flight, Seattle WA. , Faculty Presentation.

J.F. Liang, D. Shapira, C.J. Gross, J.R. Beene, J.D. Bierman, A. Galindo-Uribarri, J. Gomez del Campo, P.A. Hausladen, Y. Larochelle, W. Loveland, P.E. Mueller, D. Peterson, D.W. Stracener, R.L. Varner, "Enhanced evaporation residue cross sections in neutron-rich radioactive ^{132}Sn on ^{64}Ni ", SIXTH INTERNATIONAL CONFERENCE ON RADIOACTIVE NUCLEAR BEAMS (RNB6) 22-26 September 2003, Argonne, Illinois, USA, Results presentation.

J.F. Liang, D. Shapira, C.J. Gross, J.R. Beene, J.D. Bierman, A. Galindo-Uribarri, J. Gomez del Campo, P.A. Hausladen, Y. Larochelle, W. Loveland, P.E. Mueller, D. Peterson, D.W. Stracener, R.L. Varner, "Subbarrier fusion enhancement in neutron-rich radioactive ^{132}Sn on ^{64}Ni ", ION03: From a Tunneling Nuclear Microscope to Nuclear Processes in Matter Matsushima, Miyagi, Japan November 12-15, 2003, Results presentation.

J.D. Bierman, "Angular Momentum, Torque and the Balancing Bird.", 42nd Conference of the Pacific Northwest Association of College Physics, April, 2005, Portland OR, Faculty Presentation.

J.D. Bierman, Participant in a panel discussion on undergraduate research at small colleges and universities, 44th Conference of the Pacific Northwest Association of College Physics, April 13-14th, 2007, Vancouver Washington.

J.D. Bierman, Presentor, "So you are the legislative representative. Now what?", 2012 Washington State School Directors Association State Conference, Nov 14-16, 2012, Spokane WA.

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CONFERENCES and WORKSHOPS:

Doing Physics: Research-Based Development of Optics Instruction (AAPT Summer Meeting 1995).

Building Student Confidence in Physics Learning (AAPT Summer Meeting 1995).

Washington Section Meeting of the American Association of Physics Teachers (AAPT), Oct. 19th 1996, Central Washington University, Ellensburg WA.

Fifth Regional Conference on Undergraduate Research of the Murdock College Science Research Program, Nov 15-16th 1996, Pacific Lutheran University, Seattle WA.

34th conference of the Pacific Northwest Association for College Physics (PNACP), April 4-5th 1997, Clark College, Vancouver WA.

Earthquakes (Chautauqua short course), Caltech, Pasadena CA, June 1997).

Washington Section Meeting of the American Association of Physics Teachers (AAPT), October 11th 1997, Gonzaga University, Spokane WA.

Writing Grants for the National Science Foundation (NSF workshop, October 1997)

35th Conference of the Pacific Northwest Association for College Physics (PNACP), March 27-28th 1998, North Seattle Community College, Seattle WA.

Washington Section Meeting of the American Association of Physics Teachers (AAPT), October 10th 1998, Seattle Pacific University, Seattle WA.

Seventh Regional Conference on Undergraduate Research of the Murdock College Science Research Program, Nov 6-7th 1998, Northwest Nazarene College, Nampa ID.

36th Conference of the Pacific Northwest Association for College Physics (PNACP), April 9-10th 1999, Whitworth College, Spokane WA.

Washington Section Meeting of the American Association of Physics Teachers (AAPT), October 9th, 1999, University of Puget Sound, Tacoma WA.

Eighth Regional conference on Undergraduate Research of the Murdock College Science Research Program, Oct 29-30th 1999, Linfield College, McMinnville OR.

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CONFERENCES and WORKSHOPS CONTINUED:

Washington Section Meeting of the American Association of Physics Teachers (AAPT), October 7th, 2000, Central Washington University, Ellensburg WA.

Ninth Regional conference on Undergraduate Research of the Murdock College Science Research Program, Nov. 3-4th 2000, Univ. of Puget Sound, Tacoma WA.

38th Conference of the Pacific Northwest Association for College Physics (PNACP), March 30-31st 2001, University of Washington, Seattle WA.

Washington Section Meeting of the American Association of Physics Teachers (AAPT), October 13th, 2001, Western Washington University, Bellingham WA.

Teaching Dendrochronology (Tree Ring Analysis) in College-Level courses, (Chautauqua short course), University of Arizona, Tuscon AZ May 17-19th 2001.

Tenth Regional conference on Undergraduate Research of the Murdock College Science Research Program, Nov. 2-3rd 2001, Gonzaga University, Spokane WA.

Winter 2002 American Association of Physics Teachers (AAPT) National Meeting, Jan 19th-23rd 2002, Philadelphia Marriott Hotel, Philadelphia PA.

39th Conference of the Pacific Northwest Association for College Physics (PNACP), April 5th-6th 2002, Pacific University, Forest Grove, OR.

Summer 2002 American Association of Physics Teachers (AAPT) National Meeting, Aug 3rd-7th 2002, Boise St. Univ. , Boise ID.

Washington Section Meeting of the American Association of Physics Teachers (AAPT), October 13th, 2002, Eastern Washington University, Cheney WA.

Eleventh Regional conference on Undergraduate Research of the Murdock College Science Research Program, Nov. 15-16th 2002, Whitman College, Walla Walla, WA.

Winter 2003 American Association of Physics Teachers (AAPT) National Meeting, Jan 11th-15th 2003, Austin Renaissance Hotel, Austin TX.

40th Conference of the Pacific Northwest Association for College Physics (PNACP), Mar. 28th-29th 2003, Museum of Flight, Seattle WA.

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CONFERENCES and WORKSHOPS CONTINUED:

Washington Section Meeting of the American Association of Physics Teachers (AAPT), October 25th, 2003, Edmonds Woodway High School, Edmonds WA.

Winter 2004 American Association of Physics Teachers (AAPT) National Meeting, Jan 24-28th 2004, Radisson Deuville Resort, Miami FL.

41st Conference of the Pacific Northwest Association for College Physics (PNACP), Apr. 16-17th 2004, Columbia Basin Community College, Richland WA.

Washington Section Meeting of the American Association of Physics Teachers (AAPT), October, 2004, Green River Community College, Auburn WA.

Winter 2005 American Association of Physics Teachers (AAPT) National Meeting, Jan 8-12th 2005, Albuquerque Convention Center, Albuquerque NM.

42nd Conference of the Pacific Northwest Association for College Physics (PNACP), Apr 15-16th, 2005, University of Portland, Portland OR.

Summer 2005 American Association of Physics Teachers (AAPT) National Meeting, Aug 6-10th, 2005, University of Utah, Salt Lake City UT.

Washington Section Meeting of the American Association of Physics Teachers (AAPT), October 14th, 2005, Clark College, Vancouver WA.

43rd Conference of the Pacific Northwest Association for College Physics (PNACP), Mar. 24-25th 2006, Pacific Lutheran University, Tacoma WA.

Washington Section Meeting of the American Association of Physics Teachers (AAPT), November 4th, 2006, Seattle Pacific University, Seattle WA.

44th Conference of the Pacific Northwest Association for College Physics (PNACP), Apr. 13-14th 2007, Clark College, Vancouver WA.

Washington Section Meeting of the American Association of Physics Teachers (AAPT), October 27th, 2007, Pacific Northwest National Lab, Richland WA.

45th Conference of the Pacific Northwest Association for College Physics (PNACP), Apr. 11-12th 2008, Big Bend Community College, Moses Lake WA.

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CONFERENCES and WORKSHOPS CONTINUED:

Washington State School Directors Association (WSSDA) State Conference, November 19-22nd 2008, Spokane WA.

WSSDA State Legislative Conference, Feb 8-9th 2009, Olympia WA.

National School Board Association (NSBA) National Conference, Apr 4-7th 2009, San Diego CA.

WSSDA State Legislative Assembly Meeting, Sep 25-26th 2009, Vancouver WA.

Washington Section Meeting of the American Association of Physics Teachers (AAPT), October 10th, 2009, Wild Horse Wind Farm, Vantage WA.

Washington State School Directors Association (WSSDA) State Conference, November 18-22nd 2009, Seattle WA.

WSSDA State Legislative Conference, Feb 7-8th 2010, Olympia WA.

National School Board Association (NSBA) National Conference, Apr 4-7th 2010, Chicago IL.

WSSDA State Legislative Assembly Meeting, Sep 24-25th 2010, Vancouver WA.

Washington State School Directors Association (WSSDA) State Conference, November 17-20th 2010, Spokane WA.

WSSDA State Legislative Assembly Meeting, Sep 23-24th 2011, Pasco WA.

Washington Section Meeting of the American Association of Physics Teachers (AAPT), October 8th, 2011, Central Washington Univ., Ellensburg WA.

WSSDA State Legislative Conference, Jan 29-30th 2012, Olympia WA.

Federal Relations Network Conference, Feb 5-7th 2012, Washington D.C.

National School board Association (NSBA) National Conference, Apr 21-23rd 2011, Boston MA.

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CONFERENCES and WORKSHOPS CONTINUED:

Washington State Legislative Assembly Meeting, Sep 21-22nd 2012, Seattle WA

WSSDA Regional Director Area 9 Meeting, Sep 25th, 2012, Riverside WA

Washington State School Directors Association (WSSDA) State Conference, November 14-17th 2012, Spokane WA.

WSSDA State Legislative Conference, Mar 10-11th 2013, Olympia WA.

50th Conference of the Pacific Northwest Association for College Physics (PNACP), Apr. 5-6th 2013, Univ. of Oregon, Eugene OR.

National School Board Association (NSBA) National Conference, Apr 13-16th 2013, San Francisco CA.

WSSDA Regional Director Area 9 Meeting, May 9th, 2013, Spokane WA

Washington State Legislative Assembly Meeting, Sep 20-21st 2013, SeaTac WA

WSSDA Regional Director Area 9 Meeting, Oct 7th, 2013, East Valley WA

WSSDA State Legislative Conference, Jan 26-27th 2014, Olympia WA.

WSSDA Regional Director Area 9 Meeting, Mar. 4th 2014, Deer Park WA

51st Conference of the Pacific Northwest Association for College Physics (PNACP), Mar. 28-29th 2014, Spokane Falls Community College, Spokane WA.

National School Board Association (NSBA) National Conference, Apr 5-7th 2014, New Orleans LA.

Washington State Legislative Assembly Meeting, Sep 19-20th 2014, Seattle WA

Washington State School Directors Association (WSSDA) State Conference, November 19-22nd 2014, Spokane WA.

WSSDA State Legislative Conference, Mar 1-2nd 2014, Olympia WA.

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CONFERENCES and WORKSHOPS CONTINUED:

National School Board Association (NSBA) National Conference, Mar 21-23rd 2015, Nashville TN.

52nd Conference of the Pacific Northwest Association for College Physics (PNACP), Apr. 10-11th 2015, Western Washington University, Bellingham WA.

Washington State Legislative Assembly Meeting, Sep 18-19th 2015, Yakima WA

53rd Conference of the Pacific Northwest Association for College Physics (PNACP), Apr. 1-2nd 2016, Portlan Community College - Sylvania Campus, Portland OR.

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OTHER PROFESSIONAL ACTIVITIES :

Member of PNACP, Pacific Northwest Association for College Physics (Oct 1995-Present).

Member of Washington Section American Association of Physics Teachers (Jan 1996-Present).

Member of American Association of Physics Teachers (Jan 1994-Jan 2016).

February 1997, Washington state Science Olympiad, Event Supervisor for one Physics event.

October 1997, Paid textbook reviewer for John Wiley and Sons. Comparative review of Introductory, Algebra-based textbooks; Cutnell and Johnson's *Physics, 4th ed* against Hecht's *Physics*.

March 1999, Washington state regional Science Olympiad, Event Supervisor for two Physics events.

May 1999, Science fair judge for Sunrise Elementary School Science Fair.

Book Reviewer for Choice Reviews.

March 2000, Science Fair Judge, Dynamic Christian Academy.

Spring 2000, Regional Science Olympiad event supervisor and judge.

Jan 2001 - Jan 2004, Named to the American Association of Physics Teachers National Committee on Apparatus.

Sep 2001 - Present, Manuscript referee for The Physical Review C.

September 2001, Participated in the Nuclear Science Advisory Committee (NSAC) review of all Department of Energy (DOE) Low Energy Nuclear Science Physics Programs. I represented outside Undergraduate University Users at the site review for the Holifield Radioactive Ion Beam Facility at Oak Ridge National Lab.

Fall 2002 - Fall 2005, Elected to 3 year term as Washington State AAPT Section Representative to the national organization.

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OTHER PROFESSIONAL ACTIVITIES : (CONTINUED):

January 2003 - January 2006, Served term on the Executive Council for the National American Association of Physics Teachers (AAPT).

Jan 2004 - May 2007, Co-site coordinator for Physics Teaching Resource Agents (PTRA) Workshops for Rural Physics Teachers. 3 year program operated under a grant from NSF, Summer 2004-Spring 2007, Gonzaga University, Spokane WA.

Nov, 2007 - Appointed member of Washington State Board of Education Science Standards Advisory Panel.

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GONZAGA UNIVERSITY SERVICE:

June 2014 - Present, Chair, Physics Department.

2010 - Present, Member and or Chair of many, many Physics Department Faculty Search Committees.

June 2014 - Present, Chair of Physics Department RPT Committee for Tenured/Tenure-Track Faculty.

June 2014 - Present, Chair of Physics Department RP Committee for Fixed Term Faculty.

June 200? - Present, Physics Department RPT Committee for Tenured/Tenure-Track Faculty.

June 200? - Present, Physics department RP Committee for Fixed Term Faculty.

March 2016 - Aug 2016, College of Arts and Sciences Budget Committee.

Apr 2015 - Present, Scientific Inquiry Core Committee.

May 2009 - Present, Physics Representative, Professional Educators Committee (GU School of Ed).

June 2012 - June 2014, Physics Department Representative on the Gonzaga Faculty Senate.

June 2012 - Present, Elected member of Academic Freedom and Tenure Committee.

June 2009 - May 2011, Chair, Physics Department.

June 2009 - 2012, Gonzaga University Grievance Committee, Elected Faculty Representative. Served as chair for the 10-11 academic year.

May 2003 - May 2006, Physics Department Representative on the Gonzaga Faculty Senate.

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GONZAGA UNIVERSITY SERVICE (CONTINUED) :

Sep 2003 - May 2006, Gonzaga University Faculty Senate Standing Committee on Finance

June 2000 - May 2003, Gonzaga University Budget Committee, Elected Faculty Representative.

June 2000 - May 2002, Academic Council, Elected Representative from School of Arts and Sciences.

June 2003 - June 2009, Elected member of Academic Freedom and Tenure Committee. (Chair for 07-08 academic year)

June 1999 - May 2003, Chair, Physics Department.

June 2001 - May 2002, Faculty Speakers Series Committee, Elected Faculty Representative.

June 2000 - May 2006, Patent Committee, Elected Faculty Representative.

June 1999 - May 2003, School of Arts and Sciences Executive Council.

June 2000 - May 2001, Honors Committee, Elected Faculty Representative.

June 1999 - May 2000, Faculty Assembly Executive Council.

June 1999 - May 2000, Secretary, Faculty Assembly.

June 2002 - Present, Member Gonzaga University Professional Education Council.

Fall 2002 - May 2003, Chair of Physics Dept. Sabbatical Replacement Search Comm.

Spring 2002, Member Dept. of Exercise Science Search Committee.

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GONZAGA UNIVERSITY SERVICE (CONTINUED) :

Spring 2002 - Faculty Election Committee for full Spring Election, Chair.

Spring 2001 - Faculty Election Committee for full Spring election, Chair.

Fall 2000 - Faculty Election Committee for special Fall election.

Spring 2000 - Faculty Election Committee for full Spring election, Chair.

Fall 1999 - Faculty Election Committee for special Fall election.

Aug. 1997 - July 2001, Gonzaga University Faculty Representative, Barry M. Goldwater Scholarship and Excellence in Education Foundation Program.¹

Jan 1999 - May 2000, Member, Gonzaga University Fiscal Program Review Committee.

Sept. 1996 - Nov 2001, Physics Department Library Liaison.

Jan 1997 - Aug 2003, Physics Representative, Murdock Research Fund Allocation Committee.

Spring 2002, Faculty Presenter for GEL Weekend Activities.

Fall 2001, Faculty Showcase Lecture for Fall Family Weekend.

Spring 2001, Faculty telethon participant for Admissions.

Spring 2001, Faculty Presenter for GEL Weekend Activities.

Fall 2000, Faculty Showcase Lecture for Fall Family Weekend.

Spring 2000, Faculty Presenter for GEL Weekend Activities.

Fall 1999, Faculty Showcase Lecture for Fall Family Weekend.

¹In April 1999, Randall Teel was named Gonzaga University's first Goldwater Scholar in the 10 year history of the program.

Jeffrey D. Bierman

SPOKANE COMMUNITY SERVICE:

Nov 2013 - Nov 2015, Served as President of Spokane District 81 School Board of Directors.

Nov 2010 - Nov 2012, Served as Vice President of Spokane District 81 School Board of Directors.

Nov 2010 - Nov 2015, Spokane District 81 School Board Legislative Representative.

Nov 2009 - Nov 2015, Elected to serve a six-year term on the Spokane District 81 School Board of Directors.

Dec 2009-Dec 2010, Member of the Friends of Seven (KSPS) Board of Directors.

Sep 2008, Appointed to a vacant position on the Spokane District 81 School Board of Directors.

Oct. 2001 - Feb 2004; June 2004 - Sep 2006, Appointed member of the Spokane City Plan Commission, Appointed by Mayor John Powers and then Mayor Jim West and the Spokane City Council.

Sep. 2005 - Sep. 2007, Alternate Franklin Elementary Representative to the Citizens Advisory Committee (CAC).

June 2000 - May 2003, Appointed member of the Spokane Design Review Committee, Appointed by Mayor John Talbott and the Spokane City Council.

June 2000 - June 2001, Appointed member of the Spokane Regional Transportation Committee (SRTC) Citizen's Advisory Committee on Transportation (CACT).

Aug. 1997 - Aug. 1999, Appointed member of the Spokane Housing Advisory and Appeals Board, Appointed by Mayor Jack Geraghty and the Spokane City Council.

Nov. 1997 - 1999, Member of Spokane East Central Neighborhood Council.

Aug 2007 - Present, Member United States Golf Association (USGA).

Jeffrey D. Bierman

SPOKANE COMMUNITY SERVICE (CONTINUED) :

Dec. 2000 - 2002, Member of Lincoln Heights Neighborhood Council.

Sep. 2001 - 2004, Volunteer at Franklin Elementary School.

Aug. 2001 - Present, Member of Franklin Elementary School Parent Teacher Group (PTG).

Aug. 2001 - June 2002, Member of Franklin Elementary School Advisory Council.

Sep. 2001 - Present, Member of Spokane Preservation Advocates (SPA).

Mar. 2001 - Present, Member of Bloomsday Road Runners Club (BRRC).

June 2002 - Present, Member of Spirit Lake Landowners Organization.

Spring 2003 - Member of Spokane City Concurrency Management Ordinance work group.

2002 - Member of Holy Family Neighborhood Stakeholder Planning Group.

Spring 2002 - Lincoln Heights free trash dump project volunteer.

Mar - May 2001 - Research and Preparation for opening our home on the 2001 12th annual 2001 Mother's Day Historic neighborhood tour, presented by the Historic Preservation Committee of the Eastern Washington State Historical Society.

Spring 2001 - Lincoln Heights free trash dump project volunteer.

Feb. 2001, Presenter, Sunrise Elementary School Science Presenter night.

April 2000, Broomweek 2000 - "Rootie Kazootie II" litter cleanup team organizer.

Sept. 1998, Panel participant for KSPS citizen panel forming questions for local televised US Representative candidates debate.

April 1999, Broomweek 1999 - "Rootie Kazootie" litter cleanup team organizer

Jeffrey D. Bierman

SPOKANE COMMUNITY SERVICE:

March 30 1999, Presenter, Sunrise Elementary School Science presenter night.

Feb 4th, 1999, Presenter, Science Presenters' Night, East Farms Elementary.

Summer 1998, Science Presenter, Summer Math Camp at Gonzaga University, (Gail Nord of Math Department Organizer).

March 24 1998, Presenter, Sunrise Elementary School Science presenter night.

March 1998, Presenter, Girl Scout Camp, Spokane.

Jeffrey D. Bierman

GONZAZGA UNIVERSITY COURSES TAUGHT:

Phys 101 - General Physics I
Phys 101L - General Physics I Lab
Phys 102 - General Physics II
Phys 102L - General Physics II Lab
Phys 103 - Scientific Physics I
Phys 103L - Scientific Physics I Lab
Phys 104 - Scientific Inquiry Conceptual Physics
Phys 104L - Scientific Inquiry Lab
Phys 125 - Physics of Sound and Music
Phys 125L - Physics of Sound and Music Lab
Phys 150 - Applying the Scientific Method
Phys 204 - Scientific Physics II
Phys 204L - Scientific Physics II Lab
Phys 205 - Twentieth Century Physics
Phys 301 - Intermediate Mechanics
Phys 307 - Physical Optics
Phys 310 - Intermediate Laboratory
Phys 402 - Advanced Mechanics
Phys 409 - Nuclear and Particle
Phys 464 - Introduction to Quantum Physics
Phys 465 - Advanced Topics