List of Presentation Abstracts of Pei-Chun Ho

(In reverse chronological order, updated on 5/31/2019)

Invited Talks

(Presenting author underlined)

1. Pei-Chun Ho, John Singleton, Marcelo Jaime, M. Brian Maple, Kalyan Sasmal, and Tatsuya Yanagisawa, Kathrin Gotze, Paul Goddard, Matthew Pearce, "Intriguing High-Temperature High-Magnetic-Field Phase Boundary due to Valence Transition in $CeOs_4Sb_{12}$," oral presentation 3:40 pm at Emergent Phenomena in Strongly Correlated Electron Systems: A Symposium Recognizing Professor M. Brian Maple and his 50-year Career at UC San Diego, Natural Sciences Building, University of California San Diego, May 31, 2019.
2. Pei-Chun Ho, "Research in the Strongly Correlated Electron Laboratory," introduction-to-research presentation at Fresno State SACNAS Chapter (Society for the Advancement of Chicano and Native Americans in Science), Peters Business Room 101, California State University, Fresno, California, March 22, 2017.
3. Pei-Chun Ho, "Investigation of Unconventional Superconductivity via Neodymium Substitution on $PrOs_4Sb_{12}$," colloquium presentation at Department of Physics and Astronomy of California State University, Los Angeles, California, April 17, 2014.
4. Pei-Chun Ho, "Investigation of Unconventional Superconductivity via Neodymium Substitution on $PrOs_4Sb_{12}$," colloquium presentation at Department of Physics of California State University, Dominguez Hills, California, April 9, 2013.
5. Pei-Chun Ho, "Unconventional Superconductivity in the Filled Skutterudite Compound $PrOs_4Sb_{12}$ and the Related Doping Study in $Pr_{1-x}Nd_xOs_4Sb_{12}$ System," colloquium presentation at Department of Physics of California Polytechnic State University, San Luis Obispo, California, November 10, 2011.
6. Pei-Chun Ho, "Unconventional Superconductivity in the Filled Skutterudite Compound $PrOs_4Sb_{12}$ and the Related Doping Study in $Pr_{1-x}Nd_xOs_4Sb_{12}$ System," colloquium presentation at Department of Physics, California State Polytechnic University, Pomona, California, September 29, 2011.
7. Pei-Chun Ho, "Study of unconventional superconductivity in $PrOs_4Sb_{12}$ via substitution of Nd," colloquium presentation at Sonoma State University, Rohnert Park, California, Nov. 15, 2010.
8. Pei-Chun Ho, "Application of inverse micelle technique in synthesis of rare earth nanoclusters," colloquium presentation at Fresno City College, Fresno, California, November 13, 2009.
9. Pei-Chun Ho, T. Yanagisawa, M. B. Maple, W.M. Yuhasz, A. A. Dooraghi, C. C. Robinson, and N. P. Butch, "Effect of ferromagnetism on unconventional superconductivity in the $Pr_{1-x}Nd_xOs_4Sb_{12}$ system," **International Symposium for Young Scientists on Physics of Strongly Correlated Electrons**, Hokkaido University, Sapporo, Japan, Aug. 26, 2009.
10. Pei-Chun Ho, "Investigation of Strongly Correlated Electron behavior in rare earth materials," colloquium presentation at California State University, Fresno, California, March 6, 2009.
11. Pei-Chun Ho, "Study of unconventional superconductivity in $PrOs_4Sb_{12}$ via chemical substitution," colloquium presentation at California State University, Humboldt, California, Sept. 8, 2008.
12. Pei-Chun Ho, "Study of unconventional superconductivity in $PrOs_4Sb_{12}$ via chemical substitution," colloquium presentation at Fresno City College, Fresno, California, Apr. 4, 2008.
13. Pei-Chun Ho, W. M. Yuhasz, N. A. Frederick, T. Yanagisawa, N. P. Butch, T. A. Sayles, J. R. Jeffries, M. B. Maple, "Physical properties of $NdOs_4Sb_{12}$ and the effects of Nd substitution on the superconductivity of $PrOs_4Sb_{12}$," Joint workshop on evolution of new quantum phenomena realized in the filled skutterudite structure and new phases of matter under multiple extreme

conditions (**Joint Workshop on NQP-skutterudites and New phases of Matter-MEC**), November 21-24, 2005, Tokyo University Metropolitan University, Hachioji, Tokyo.

14. Pei-Chun Ho, W. M. Yuhasz, N. A. Frederick, N. P. Butch, T. A. Sayles, J. R. Jeffries, M. B. Maple, J. B. Betts, and A. H. Lacerda, "Heavy fermion and ferromagnetic behavior in filled skutterudite compounds $NdOs_4Sb_{12}$ and $SmOs_4Sb_{12}$," **the 16th American Conference on Crystal Growth and Epitaxy (ACCGE-16)**, July 10-15, 2005, Big Sky, Montana, ACCGE-16 Abstract Book, page 161 (2005).
15. Pei-Chun Ho, "Strongly-correlated-electron behaviors in the filled skutterudite f-electron compounds," Special Condensed Matter Seminar, Florida State University, Tallahassee, April 6, 2004.

Contributed Talks and Posters

(Presenting author underlined)

1. A. Capa Salinas, J. Velasquez, P.-C. Ho, "Probe Design for Thermopower Measurements Using a Differential Thermocouple," contributed talk n at **National Conference on Undergraduate Research 2019**, Kennesaw State University, Kennesaw, Georgia, April 10-13 (2019). [Student Presentation from PCH Lab]
2. Yeh-Chia Chang, Shoji Hishida, Taylor McCullough-Hunter, Pei-Chun Ho, Brian Maple, and Tatsuya Yanagisawa, "Thermal analysis of the specific heat of $Pr_{1-x}Nd_xOs_4Sb_{12}$," contributed talk at **National Conference on Undergraduate Research 2019**, Kennesaw State University, Kennesaw, Georgia, April. 10-13 (2019). [Student Presentation from PCH Lab]
3. Pei-Chun Ho, Doug E. MacLaughlin, M. Brian Maple, Lei Shu, Arian Hillier, Oscar Bernal, Tatsuya Yanagisawa, P. K. Biswas, Jian Zhang, Cheng Tan, Shoji D. Hishida, Taylor McCulough-Hunter, "Investigation of broken time reversal symmetry in the Pr-rich side of $Pr_{1-x}Nd_xOs_4Sb_{12}$," oral presentation at **2019 APS March Meeting**, Mar. 4-8, Boston, Massachusetts, Abstract # C07.00014 (2019).
4. Andrea Capa Salinas, Jesus Velasquez, Pei-Chun Ho, "Seebeck Coefficient Measurement Probe by Using a Differential Thermocouple," oral presentation at **2019 APS March Meeting**, Mar. 4-8, Boston, Massachusetts, Abstract # E67.00015 (2019). [Student Presentation from PCH Lab]
5. Yeh-Chia Chang, Shoji Hishida, Taylor McCullough-Hunter, Pei-Chun Ho, Brian Maple, and Tatsuya Yanagisawa, "Specific Heat of $Pr_{1-x}Nd_xOs_4Sb_{12}$," oral presentation at **2019 APS March Meeting**, Mar. 4-8, Boston, Massachusetts, Abstract # L06.00015 (2019). [Student Presentation from PCH Lab]
6. Patrick Talbot and Pei-Chun Ho, "Method for the growth and stabilization of rare earth nano-particles," poster presentation at **2019 APS March Meeting**, Mar. 4-8, Boston, Massachusetts, Abstract # L70.00385 (2019). [Student Presentation from PCH Lab]
7. Jian Zhang, Doug E. MacLaughlin, Zhaofeng Ding, Cheng Tan, Oscar Bernal, Pei-Chun Ho, Gerald D. Morris, Akihiro Koda, Adrian Hillier, Stephen P. Cottrell, Peter J. Baker, P. K. Biswas, Yanxing Yang, Zihao Zhu, Jun Qian, Yan Wan, Xin Yao, Lei Shu, "Slow magnetic fluctuations in the pseudogap phase $YBa_2Cu_3O_7$," oral presentation at **2019 APS March Meeting**, Mar. 4-8, Boston, Massachusetts, Abstract # B06.00010 (2019).
8. Kathrin Goetze, Mathew J. Pearce, Paul Goddard, Alix McCollan, Thomas Khouri, Marcelo Jaime, M. Brian Maple, Kalyan Sasmal, Tatsuya Yanagisawa, John Singleton, and Pei-Chun Ho, "Unusual phase boundary and altered Fermi surface in $CeOs_4Sb_{12}$ at high magnetic fields," oral presentation at **2019 APS March Meeting**, Mar. 4-8, Boston, Massachusetts, Abstract # P07.00011 (2019).

9. P.-C. Ho, J. Singleton, M. Jaime, M. B. Maple, K. Sasmal, and T. Yanagisawa, "Exploring the valence transition in $CeOs_4Sb_{12}$ in high magnetic fields," poster presentation at **21st International Conference on Magnetism** (**ICM 2018**), July 15-20, San Francisco, California, Abstract # Q10-07 (2018).
10. P.-C. Ho, D. E. MacLaughlin, M. B. Maple, L. Shu, A. Hillier, O. Bernal, T. Yanagisawa, P. Biswas, J. Zhang, C. Tan, S. Hishida, and T. McCulough-Hunter, "Investigation of Broken Time Reversal Symmetry in the Pr-rich Side of $Pr_{1-x}Nd_xOs_4Sb_{12}$," poster presentation at **21st International Conference on Magnetism** (**ICM 2018**), July 15-20, San Francisco, California, Abstract # H13-09 (2018).
11. S. Hishida, J. Velasquez, T. McCullough-Hunter, P.-C. Ho, M. B. Maple, and T. Yanagisawa, "Thermal Analysis of the Specific Heat of $Pr_{1-x}Nd_xOs_4Sb_{12}$," poster presentation at **21st International Conference on Magnetism** (**ICM 2018**), July 15-20, San Francisco, California, Abstract # H13-08 (2018). [Student Presentation from PCH Lab]
12. P.-C. Ho, M. Jaime, J. Singleton, M. B. Maple, and T. Yanagisawa, "Magnetostriction measurements to clarify high-temperature phase boundary in $CeOs_4Sb_{12}$," poster presentation at **2018 APS March Meeting**, Mar. 5-9, Los Angeles, California, Abstract # T60.00150 (2018).
13. Shoji Hishida, Jesus Velasquez, Taylor McCullough-Hunter, Pei-Chun Ho, Brian Maple, and Tatsuya Yanagisawa, "Analysis of the molar specific heat of $Pr_{1-x}Nd_xOs_4Sb_{12}$," oral presentation at **2018 APS March Meeting**, Mar. 5-9, Los Angeles, California, Abstract # B06.00015 (2018). [Student Presentation from PCH Lab]
14. Jesus Velasquez, Pei-Chun Ho, "Device for Measuring the Seebeck Coefficient," poster presentation at **2018 APS March Meeting**, Mar. 5-9, Los Angeles, California, Abstract # G60.00067 (2018). [Student Presentation from PCH Lab]
15. Patrick Talbot, Patrick Kelly, and Pei-Chun Ho, "Method for the growth and stabilization of rare earth nano-particles," poster presentation at **2018 APS March Meeting**, Mar. 5-9, Los Angeles, California, Abstract # L60.00331 (2018). [Student Presentation from PCH Lab]
16. Pei-Chun Ho, Daqing Zhang, Raymond Hall, Gerardo Munoz, Mihai Gherase, Karl Runde, "Implantation and Assessment of High Impact Practices In Calculus-based Introductory Physics," poster presentation at **2018 AAPT Winter Meeting**, Jan. 6-9, San Diego, California, Abstract # PST1D09 (2018).
17. Shoji Hishida, Jesus Velasquez, Taylor McCullough-Hunter, Pei-Chun Ho, Tatsuya Yanagisawa, Brian Maple, "Analysis of thermal properties of Nd-doped $PrOs_4Sb_{12}$ via measurements of specific heat," oral presentation at **38th Annual Central California Research Symposium**, Session E, 10:30 a.m.- 10:45 p.m., April 18, California State University, Fresno (2017). [Student Presentation from PCH Lab]
18. P.-C. Ho, J. Singleton, P. A. Goddard, F. F. Balakirev, Shalinee Chikara, M. B. Maple, and T. Yanagisawa, "Unusual phase boundary and altered Fermi surface in $CeOs_4Sb_{12}$ at high magnetic fields," oral presentation at **2017 APS March Meeting**, Mar. 13-17, New Orleans, Louisianan, Abstract # C20.00010 (2017).
19. P.-C. Ho, D. E. MacLaughlin, M. B. Maple, L. Shu, O.O. Bernal, A. D. Hillier, T. Yanagisawa, "Investigation of broken time reversal symmetry in Pr-concentrated side of $Pr_{1-x}Nd_xOs_4Sb_{12}$," poster presentation at **2017 APS March Meeting**, Mar. 13-17, New Orleans, Louisianan, Abstract # T1.00077 (2017).
20. Shoji Hishida, Taylor McCullough-Hunter, Pei-Chun Ho, Brian Maple, and Tatsuya Yanagisawa, "Analysis of thermal properties of $Pr_{1-x}Nd_xOs_4Sb_{12}$ in the range 10 – 300 K," oral presentation at **2017 APS March Meeting**, Mar. 13-17, New Orleans, Louisianan, Abstract # B12.00006 (2017).

[Student Presentation from PCH Lab; Shoji won "SPS Outstanding Presentation Award ," sponsored by Society of Physics Students (SPS)]

21. Patrick Talbot and Pei-Chun Ho, "Method for the growth and stabilization of rare earth nano-particles," poster presentation at **2017 APS March Meeting**, Mar. 13-17, New Orleans, Louisianan, Abstract # M1.00369 (2017). [Student Presentation from PCH Lab]
22. I. Jeon, A. J. Breindel, B. Luong, M. B. Maple, P.-C. Ho, R. B. Adhikari, C. C. Almasan, "Crossover and coexistence of superconductivity and antiferromagnetism in the filled-skutterudite system $Pr_{1-x}Eu_xPt_4Ge_{12}$," oral presentation at **2017 APS March Meeting**, Mar. 13-17, New Orleans, Louisianan, Abstract # H39.00013 (2017).
23. Lei Shu, J. Zhang, Z. F. Ding, C. Tan, K. Huang, D. E. MacLaughlin, C. M.. Varma, A. D. Hillier, P. Biswas, O. O. Bernal, P.-C. Ho, H. Xiang, and X. sYao, "Discovery of slowly fluctuating magnetic fields by muSR in cuprates," oral presentation at **2017 APS March Meeting**, Mar. 13-17, New Orleans, Louisianan, Abstract # K39.00007 (2017).
24. Kevin Huang, Cheng Tan, Jian Zhang, Douglas MacLaughlin, Oscar Bernal, Pei-Chun Ho, L. Wu, Meigan Aronson, Lei Shu, "Quantum criticality and 2-D dissipative quantum XY ferromagnetism in single crystalline YFe_2Al_{10} from muSR investigations," oral presentation at **2017 APS March Meeting**, Mar. 13-17, New Orleans, Louisianan, Abstract # P37b.00002 (2017).
25. Yuankan Fang, C. T. Wolowiec, A. J. Breindel, D. Yazici, M. B. Maple, P.-C. Ho, "Upper critical field of $LnO_{0.5}F_{0.5}BiS_2$ (Ln = La, Nd) superconductors at extreme conditions," oral presentation at **2017 APS March Meeting**, Mar. 13-17, New Orleans, Louisianan, Abstract # V38.00010 (2017).
26. Shoji Hishida, Taylor McCullough-Hunter, Pei-Chun Ho, Brian Maple, and Tatsuya Yanagisawa, "Analysis of thermal properties of $Pr_{1-x}Nd_xOs_4Sb_{12}$ in the range 10 – 300 K," poster presentation at **2016 Quadrennial Physics Congress,** Poster Session I, November 14, abstract # SI-113, Hyatt Regency-San Francisco Airport, Hosted by Sigma Pi Sigma, the Physics Honor Society, (2016). [Student Presentation from PCH Lab; Shoji won "the OSA Poster Award for General Physics," sponsored by Optical Society of America (OSA)]
27. Shoji Hishida, Pei-Chun Ho, "Apparatus for the measurement of thermoelectric power," oral presentation at **37th Annual Central California Research Symposium**, Session D, 10:30 a.m.- 10:45 p.m., April 22, California State University, Fresno (2016). [Student Presentation from PCH Lab; Shoji won the award of "Outstanding Oral Undergraduate Presentation," sponsored by University of California, San Francisco-Fresno]
28. Taylor McCullough-Hunter, Shoji Hishida, Pei-Chun Ho, Tatsuya Yanagisawa, and Brian Maple, "Thermal properties extract from specific heat of Nd-doped $PrOs_4Sb_{12}$," oral presentation at **37th Annual Central California Research Symposium**, Session D, 11:30 a.m.- 10:45 p.m., April 22, California State University, Fresno (2016). [Student Presentation from PCH Lab]
29. Adan Prado, Alexandre Ly, and Partrick Talbot, "Synthesis of gadolinium nanoparticles using the inverse micelle method," Poster Session III: 1:00 p.m.-2:30 p.m., Poster Space 16, April 20, California State University, Fresno (2016). [Student Presentation from PCH Lab]
30. Shoji Hishida, Pei-Chun Ho, "Aparatus for the measurement of thermoelectric power," poster presentation at **2016 APS March Meeting**, Mar. 14-18, Baltimore, Maryland, Abstract # G1.00120 (2016). [Student Presentation from PCH Lab]
31. Taylor McCullough-Hunter, Shoji Hishida, Pei-Chun Ho, Brian Maple, Tatsuya Yanagisawa, "Thermal properties of Nd-doped $PrOs_4Sb_{12}$ extract from measurement of specific heat," contributed talk at **2016 APS March Meeting**, Mar. 14-18, Baltimore, Maryland, Abstract # A7.00003 (2016). [Student Presentation from PCH Lab]

32. P.-C. Ho, J. Singleton, F. F. Balakirev, M. B. Maple, and T. Yanagisawa, "Shubnikov-de Haas Oscillations of filled skutterudite compounds $CeOs_4Sb_{12}$ and $NdOs_4Sb_{12}$," poster presentation at **2016 APS March Meeting**, Mar. 14-18, Baltimore, Maryland, Abstract # T1.00185 (2016).
33. L. Shu, Z. F. Ding, J. Zhang, C. Tan, K. Huang, L. Liu, S. Cheung, Y. J. Uemura, D. E. MacLaughlin, O. O. Bernal, P.-C. Ho, D. Hu, P. C. Dai, "Quantum fluctuations in iron-pnictide superconductor $BaFe_2(As_{1-x}P_x)_2$," contributed talk at **2016 APS March Meeting**, Mar. 14-18, Baltimore, Maryland, Abstract # K11.00007 (2016).
34. Kevin Huang, Cheng Tan, Jia Zhang, Zhaofeng Ding, Douglous MacLaughlin, Oscar Bernal, Pei-Chun Ho, Liusuo Wu, Meigan Aronson, Lei Shu, "Quantum criticality in single crystalline YFe2Al10 determined from zero-field and longitudinal-field muon spin relaxation," contributed talk at **2016 APS March Meeting**, Mar. 14-18, Baltimore, Maryland, Abstract # F19.00013 (2016).
35. Inho Jeon, Kevin Huang, Duygu Yazici, Noravee Kanchanavatee, Benjamin D. White, Sooyoung Jang, Naveen Pouse, M. Brian Maple, Pei-Chun Ho, "Investigation of the superconducting and normal state properties of the filled skutterudite system $PrPt_4Ge_{12}$ via chemical substitution," contributed talk at **2016 APS March Meeting**, Mar. 14-18, Baltimore, Maryland, Abstract # C22.00009 (2016).
36. Shoji Hishida, Pei-Chun Ho, "Apparatus for the measurement of thermoelectric power," poster presentation at **2016 SPS Zone 18 Meeting**, Mar. 11-13, California State University, Fresno (2016). [Student Presentation from PCH Lab]
37. Taylor McCullough-Hunter, Shoji Hishida, Pei-Chun Ho, Brian Maple, Tatsuya Yanagisawa, "Investigation into doped filled skutterudite $Pr_{1-x}Nd_xOs_4Sb_{12}$ using finite heat-pulse relaxation calorimetry," oral presentation at **36th Annual Central California Research Symposium**, Session I, 2:15 p.m.- 2:30 p.m., April 22, California State University, Fresno (2015). [Student Presentation from PCH Lab]
38. E. I. Paredes Aulestia, R. H. Fukuda, M. M. Castro De La Torre, P.-C. Ho, S. Attar, M. Golden, D. Margosan, "Synthesis and Characterization of rare earth nanoparticles in a non-aqueous environment," oral presentation at **36th Annual Central California Research Symposium**, Session I, 1:45 p.m.- 2:00 p.m., April 22, California State University, Fresno (2015). [Student Presentation from PCH Lab]
39. Shoji Hishida, Taylor McCullough-Hunter, Pei-Chun Ho, Brian Maple, Tatsuya Yanagisawa, "Specific heat measurements of the filled skutterudite $Pr_{1-x}Nd_xOs_4Sb_{12}$ using relaxation calorimetry," poster presentation at **36th Annual Central California Research Symposium**, Poster Session III: 1:00 p.m.-2:30 p.m., Poster Space 15, April 22, California State University, Fresno (2015). [Student Presentation from PCH Lab]
40. Arnold Muradyan, Taylor McCullough-Hunter, Pei-Chun Ho, "Development of a thermopower probe," poster presentation at **36th Annual Central California Research Symposium**, Poster Session I: 9:00 a.m.-10:30 a.m., Poster Space 18, April 22, California State University, Fresno (2015). [Student Presentation from PCH Lab]
41. Benjamin White, Duygu Yazici, Pei-Chun Ho, Noravee Kanchanavatee, Naveen Pouse, Aaron Friedman, and M. Brian Maple, "Weak hybridization and isolated localized magnetic moments in the compounds CeT_2Cd_{20} (T = Ni, Pd)," contributed talk at **2015 APS March Meeting**, Mar. 2-6, San Antonio, Texas, Abstract # S29.00008 (2015).
42. Duygu Yazici, B. D. White, P.-C. Ho, N. Kanchanavatee, K. Huang, N. R. Dilley, and M. B. Maple, "Investigation of magnetic order in $SmTr_2Zn_{20}$ (*Tr* = Fe, Co, Ru) and $SmTr_2Cd_{20}$ (*Tr* = Ni, Pd)," contributed talk at **2015 APS March Meeting**, Mar. 2-6, San Antonio, Texas, Abstract # Q29.00001 (2015).

43. P.-C. Ho, J. Singleton, F. F. Balakirev, M. B. Maple, and T. Yanagisawa, "Shubnikov-de Haas Oscillations of filled skutterudite compounds $CeOs_4Sb_{12}$ and $NdOs_4Sb_{12}$," contributed talk at **2015 APS March Meeting**, Mar. 2-6, San Antonio, Texas, Abstract # Q22.00010 (2015).
44. Lei Shu, D.E. MacLaughlin, C.M. Varma, O.O. Bernal, P.-C. Ho, R.H. Fukuda, X.P. Shen, M.B. Maple, "Landau renormalization of superfluid density in the heavy-fermion superconductor CeCoIn5," contributed talk at **2015 APS March Meeting**, Mar. 2-6, San Antonio, Texas, Abstract # M22.00002(2015). [Undergraduate student Ryan Fukuda from PCH Lab coauthored this presentation]
45. Taylor McCullough-Hunter, Shoji Hishida, Pei-Chun Ho, Brian Maple, Tatsuya Yanagisawa, "Measurement of specific heat of $Pr_{1-x}Nd_xOs_4Sb_{12}$ from 11K-300K," contributed talk at **2015 APS March Meeting**, Mar. 2-6, San Antonio, Texas, Abstract # D4.00014 (2015). [Student Presentation from PCH Lab]
46. E. I. Paredes Aulestia, R. H. Fukuda, M. M. Castro De La Torre, P.-C. Ho, S. Attar, M. Golden, D. Margosan, "Synthesis and Characterization of rare earth nanoparticles in a non-aqueous environment," contributed talk at **2015 APS March Meeting**, Mar. 2-6, San Antonio, Texas, Abstract # D4.00008 (2015). [Student Presentation from PCH Lab]
47. A. F. Vargas, R. Fukuda, N. Soliz, and P.-C. Ho, "Thermopower Puck for Measurements of Thermodynamic Properties," poster presentation at **Graduate Research & Creative Activities Symposium**, Session I, 1:15 p.m., May 1, California State University, Fresno (2014). [Student Presentation from PCH Lab]
48. A. F. Vargas, R. Fukuda, N. Soliz, and P.-C. Ho, "Thermopower Puck for Measurements of Thermodynamic Properties," poster presentation at **35th Annual Central California Research Symposium**, Session II, 11:00 a.m., April 24, California State University, Fresno (2014). [Student Presentation from PCH Lab]
49. M. Castro De La Torre, R. Fukuda, and P.-C. Ho, "Synthesis and Characterization of Neodymium Nanoparticles," contributed talk at **35th Annual Central California Research Symposium**, Session C, 9:30 a.m., April 24, California State University, Fresno (2014). [Student Presentation from PCH Lab]
50. R. H. Fukuda, M. Castro, P.-C. Ho, S. Attar, M. Golden, and D. Margosan, "Nonaqueous Synthesis of Gadolinium and Neodymium Nanoparticles," poster presentation at **35th Annual Central California Research Symposium**, Poster Session II, Poster (9), April 24, California State University, Fresno (2014). [Student Presentation from PCH Lab]
51. T. McCullough-Hunter, P.-C. Ho, M. B. Maple, T. Yanagisawa, "Specific Heat of $Pr_{1-x}Nd_xOs_4Sb_{12}$ from 10 K to ~300 K", poster presentation at **35th Annual Central California Research Symposium,** Poster Session 2, 11:00 am-12:30 pm, April 24, California State University, Fresno (2014). [Student Presentation from PCH Lab]
52. M. Castro De La Torre, R. Fukuda, and Advisor P.-C. Ho, "Synthesis and Characterization of Neodymium Nanoparticles," contributed talk at **National Conferences on Undergraduate Research 2014**, University of Kentucky, Lexington, Kentucky, April 3-5 (2014). [Student Presentation from PCH Lab]

    https://ncurdb.cur.org/ncur2014/search/display_ncur.aspx?id=83681
53. K. Huang, L. Shu, I. Lum, B. b. White, M. Janoschek, D. Yazici, J. J. Hamlin, D. A. Zocco, P.-C. Ho, R. E. Baumbach, and M. B. Maple, "Probing the unconventional superconductivity of PrPt4Ge12 through Ce substitution," contributed talk at **2014 APS March Meeting**, March 3-7, Denver, Colorado, Abstract# Q48.00013 (2014).

54. R. Fukuda, M. Castro De La Torre, P.-C. Ho, S. Attar, M. Golden, and D. Margosan, "Nonaqueous synthesis of gadolinium and neodymium," poster presentation at **2014 APS March Meeting**, March 3-7, Denver, Colorado, Abstract# H1.00037 (2014). [Student Presentation from PCH Lab]
55. A. Vargas, R. Fukuda, N. Soliz, and P.-C. Ho, "Thermopower puck for measurement of thermodynamic properties", poster presentation at **2014 APS March Meeting**, March 3-7, Denver, Colorado, Abstract# H1.00031 (2014). [Student Presentation from PCH Lab]
56. T. McCullough-Hunter, T. Nichols, H. Anderson, P.-C. Ho, M. B. Maple, and T. Yanagisawa, "Specific Heat of $Pr_{1-x}Nd_xOs_4Sb_{12}$ near 300K," poster presentation at **2014 APS March Meeting**, March 3-7, Denver, Colorado, Abstract# H1.00030 (2014). [Student Presentation from PCH Lab]
57. P.-C. Ho, J. Singleton, F. F. Balakirev, M. B. Maple, and T. Yanagisawa, "Angle dependence of Shubnikov-de Haas effect of $CeOs_4Sb_{12}$ and $NdOs_4Sb_{12}$," poster presentation at **2014 APS March Meeting**, March 3-7, Denver, Colorado, Abstract# C1.00078 (2014).
58. Maya Castro De La Torre, Ryan Fukuda, Pei-Chun Ho, Saeed Attar, Melissa Golden, and Dennis Margosan, "Synthesis and characterization of Gadolinium nanoparticles," poster presentation at **the College of Science and Mathematics Celebration of Student Research and Achievement,** Student Poster Session, May 7, California State University, Fresno (2013). [Student Presentation from PCH Lab]
59. Taylor McCullough-Hunter, Andres Felipe Vargas Quintana, and Pei-Chun Ho, "Design of a torque magnetometer," poster presentation at **the College of Science and Mathematics Celebration of Student Research and Achievement**, Student Poster Session, May 7, California State University, Fresno (2013). [Student Presentation from PCH Lab]
60. Hank Anderson, Ulises I. Urbina, Pei-Chun Ho, M. Brian Maple, Tatsuya Yanagisawa, "Relaxation calorimetry to measure heat capacities of $Pr_{1-x}Nd_xOs_4Sb_{12}$ samples," oral presentation at **5th Annual Central California Graduate Research Symposium**, Oral Presentation Session I, 2:00 – 2:15 p.m., May 2, Henry Madden Library Room 2206, California State University, Fresno (2013). [Student Presentation from PCH Lab]
61. Ryan Fukuda, Maya Castro De La Torre, Pei-Chun Ho, Melissa Golden, Saeed Attar, and Dennis Margosan, "Gadolinium nanoparticle synthesis using AOT-Methanol-Haxane Reverse Micelles," oral presentation at **5th Annual Central California Graduate Research & Creative Activities Symposium**, Oral Presentation Session I, 1:30 – 1:45 p.m., May 2, Henry Madden Library Room 2206, California State University, Fresno (2013). [Student Presentation from PCH Lab]
62. A. Felipe Vargas Quintana, Ryan Fukuda, Smitha Sunny, and Pei-Chun Ho, "Redesigning an AC magnetic susceptometer for the measurements of smaller samples," oral presentation at **5th Annual Central California Graduate Research Symposium**, Oral Presentation Session I, 1:15 – 1:30 p.m., May 2, Henry Madden Library Room 2206, California State University, Fresno (2013). [Student Presentation from PCH Lab]
63. Taylor McCullough-Hunter, Andres Felipe Vargas Quintana, and Pei-Chun Ho, "Design of a torque magnetometer," poster presentation at **5th Annual Central California Graduate Research Symposium**, Poster Presentation Session I, 1:15 – 2:15 p.m., May 2, Henry Madden Library 2nd Floor, California State University, Fresno (2013). [Student Presentation from PCH Lab]
64. Maya Castro De La Torre, Ryan Fukuda, Pei-Chun Ho, Saeed Attar, Melissa Golden, and Dennis Margosan, "Synthesis and characterization of Gadolinium nanoparticles," poster presentation at **5th Annual Central California Graduate Research Symposium**, Poster Presentation Session I, 1:15 – 2:15 p.m., May 2, Henry Madden Library 2nd Floor, California State University, Fresno (2013). [Student Presentation from PCH Lab]

65. Ryan Fukuda, Maya Castro, Pei-Chun Ho, Melissa Golden, Saeed Attar, and Dennis Margosan, "Gadolinium nanoparticle synthesis using AOT-Methanol-Haxane Reverse Micelles," contributed talk at **34th Annual Central California Research Symposium**, Session A, 12:00 p.m., April 25, California State University, Fresno (2013). [Student Presentation from PCH Lab]
66. A. Felipe Vargas Quintana, Ryan Fukuda, Smitha Sunny, and Pei-Chun Ho, "Redesigning an AC magnetic susceptometer for the measurements of smaller samples," contributed talk at **34th Annual Central California Research Symposium**, Session B, 12:00 p.m., April 25, California State University, Fresno (2013). [Student Presentation from PCH Lab]
67. Hank Anderson, Ulises I. Urbina, Pei-Chun Ho, M. Brian Maple, Tatsuya Yanagisawa, "Relaxation calorimetry to measure heat capacities of $Pr_{1-x}Nd_xOs4Sb_{12}$ samples," contributed talk at **34th Annual Central California Research Symposium**, Session B, 12:00 p.m., April 25, California State University, Fresno (2013). [Student Presentation from PCH Lab]
68. Taylor McCullough-Hunter, Andres Felipe Vargas Quintana, and Pei-Chun Ho, "Design of a torque magnetometer," poster presentation at **34th Annual Central California Research Symposium**, Poster Session II 12:30 p.m. – 2:30 p.m., poster # (21), April 25, California State University, Fresno (2013). [Student Presentation from PCH Lab]
69. Maya Castro De La Torre, Ryan Fukuda, Pei-Chun Ho, Saeed Attar, Melissa Golden, and Dennis Margosan, "Synthesis and characterization of Gadolinium nanoparticles," poster presentation at **34th Annual Central California Research Symposium**, Poster Session II 12:30 p.m. – 2:30 p.m., poster # (22), April 25, California State University, Fresno (2013). [Student Presentation from PCH Lab; Maya Castro won Outstanding Science Presentation Award from American Chemical Society]
70. Hank Anderson, B. Somsanuk, Ulises I. Urbina, Advisor Pei-Chun Ho, "Constructing a Relaxation Calorimeter," contributed talk at **National Conference on Undergraduate Research 2013,** University of Wisconsin, La Crosse, Wisconsin, April 11-13 (2013). [Student Presentation from PCH Lab]

    https://ncurdb.cur.org/ncur2014/archive/Display_NCUR.aspx?id=72982
71. R. H. Fukuda, M. M. Castro, P.-C. Ho, S. Attar, M. Golden, and D. Margosan, "Reverse Micelle Synthesis of Gadolinium Nanoparticles," contributed talk at **2013 APS March Meeting**, Mar. 18-22, Baltimore, Maryland, Abstract # G46.00001 (2013). [Student Presentation from PCH Lab; Ryan Fukuda won an award in recognition of an outstanding presentation of undergraduate research]
72. A. F. Vargas, R. Fukuda, S. Sunny, and P.-C. Ho, "Redesign of an AC Magnetic Susceptometer for Measurements in Smaller Samples," contributed talk at **2013 APS March Meeting**, Mar. 18-22, Baltimore, Maryland, Abstract # B46.00001 (2013). [Student Presentation from PCH Lab]
73. P.-C. Ho, D. E. MacLaughlin, M. B. Maple, L. Shu, O.O. Bernal, T. Yanagisawa, "Effect of Nd substitution on $PrOs_4Sb_{12}$ investigated by μSR Experiments," contributed talk at **2013 APS March Meeting**, Mar. 18-22, Baltimore, Maryland, Abstract # J19.00014 (2013).
74. Ryan Fukuda, Maya Castro De La Torre, Pei-Chun Ho, Melissa Golden, Saeed Attar, and Dennis Margosan, "Synthesis of Gadolinium and Neodymium Nanoparticles through the Reverse Micelle Method," oral presentation at **2012 Annual Meeting of the California-Nevada Section of the American Physics Society**, November 2-3, 2012, California Polytechnic State University, San Luis Obispo, California (2012). [Student Presentation from PCH Lab]
75. Felipe Vargas, Ryan Fukuda, Smitha Sunny, and Pei-Chun Ho, "Redesign of an AC Magnetic Susceptometer for Smaller Samples," oral presentation at **2012 Annual Meeting of the California-Nevada Section of the American Physics Society**, November 2-3, 2012, California

Polytechnic State University, San Luis Obispo, California (2012). [Student Presentation from PCH Lab]

76. Banchong Somsanuk, Hank Anderson, Pei-Chun Ho, M. Brian Maple, and Tatsuya Yanagisawa, "Specific Heat of $Pr_{1-x}Nd_xOs_4Sb_{12}$," oral presentation at **2012 Annual Meeting of the California-Nevada Section of the American Physics Society**, November 2-3, 2012, California Polytechnic State University, San Luis Obispo, California (2012). [Student Presentation from PCH Lab]
77. B. Somsanuk, U. I. Urbina, P.-C. Ho, M. B. Maple, and T. Yanagisawa, "Finite pulse relaxation calorimetry and specific heat of $NdOs_4Sb_{12}$," poster presentation at **CSM Celebration of Research Poster Exhibition**, May 9, hosted by the College of Science and Mathematics, California State University, Fresno (2012). [Student Presentation from PCH Lab]
78. A. Felipe Vargas, Ryan Fukuda, Smitha Sunny, and Pei-Chun Ho, "Construction and testing of an AC Magnetic Susceptometer," poster presentation at **CSM Celebration of Research Poster Exhibition**, May 9, hosted by the College of Science and Mathematics, California State University, Fresno (2012). [Student Presentation from PCH Lab]
79. B. Somsanuk, U. I. Urbina, P.-C. Ho, M. B. Maple, and T. Yanagisawa, "Finite pulse relaxation calorimetry and specific heat of $NdOs_4Sb_{12}$," poster presentation at **Graduate Research and Creative Activities Symposium**, May 3, Henry Madden Library, California State University, Fresno (2012). [Student Presentation from PCH Lab]
80. B. Somsanuk, U. I. Urbina, P.-C. Ho, M. B. Maple, and T. Yanagisawa, "Finite pulse relaxation calorimetry and specific heat of $NdOs_4Sb_{12}$," poster presentation at **2012 SPS** (Society of Physics Students) **Zone 18 Meeting**, California State University, Fresno, Apr. 27 - 28 (2012). [Student Presentation from PCH Lab; Banchong won the 1st prize in the poster session]
81. A. Felipe Vargas, Ryan Fukuda, Smitha Sunny, and Pei-Chun Ho, "Construction and testing of an AC Magnetic Susceptometer," poster presentation at **2012 SPS** (Society of Physics Students) **Zone 18 Meeting**, California State University, Fresno, Apr. 27 - 28 (2012). [Student Presentation from PCH Lab; Felipe won the 2nd prize in the poster session]
82. Ryan Fukuda, A. Felipe Vargas, Smitha Sunny, and Pei-Chun Ho, "Construction of an AC magnetic susceptometer," contributed talk at **33rd Annual Central California Research Symposium**, Session C, 9:45 a.m., April 13, California State University, Fresno (2012). [Student Presentation from PCH Lab]
83. Felipe Vargas, Ryan Fukuda, Smitha Sunny, and Pei-Chun Ho, "Construction of an AC Magnetic Susceptometer," poster presentation at **33rd Annual Central California Research Symposium**, Poster Session II, poster(9), Apr. 13, California State University, Fresno (2012). [Student Presentation from PCH Lab]
84. B. Somsanuk, U. I. Urbina, P.-C. Ho, M. B. Maple, and T. Yanagisawa, "Finite pulse relaxation calorimetry and specific heat of $NdOs_4Sb_{12}$," poster presentation at t**he 33rd Annual Central California Research Symposium**, Poster Session II, poster (10), Apr. 13, California State University, Fresno (2012). [Student Presentation from PCH Lab]
85. Nicholas Soliz, and Ulises Urbina, faculty advisor Pei-Chun Ho, "Experimental Probe for Measurement of Thermodynamic Properties," contributed talk at **National Conference on Undergraduate Research 2012,** Weber State University, Ogden, Utah, March 29-31 (2012).
    https://ncur.weber.edu/ncur/search/Display_NCUR.aspx?id=62570
    [Student Presentation from PCH Lab]
86. Ryan Fukuda, Smitha Sunny, and faculty advisor Pei-Chun Ho, "Testing of a First Order AC Magnetic Susceptometer," contributed talk at **National Conference on Undergraduate Research 2012,** Weber State University, Ogden, Utah, March 29-31 (2012).

https://ncur.weber.edu/ncur/search/Display_NCUR.aspx?id=62035

[Student Presentation from PCH Lab]

87. P.-C. Ho, R. B. Baumbach, L. Shu, M. B. Maple, S. Zhao, D. E. MacLaughlin, and T. Yanagisawa, "Evolution of the phase diagrams in the pseudoternary system $Pr_{1-x}Nd_xOs_4Sb_{12}$," contributed talk at **2012 APS March Meeting**, Feb. 27-Mar. 2, Boston, Massachusetts, Abstract # P54.00003 (2012).
88. B. Somsanuk, U. I. Urbina, P.-C. Ho, M. B. Maple, and T. Yanagisawa, "Finite pulse relaxation calorimetry and specific heat of $NdOs_4Sb_{12}$," poster presentation at **2012 APS March Meeting**, Feb. 27-Mar. 2, Boston, Massachusetts, Abstract # S1.00303 (2012). [Student Presentation from PCH Lab]
89. Ryan Fukuda, Smitha Sunny, and Pei-Chun Ho, "Testing of a First Order AC Magnetic Susceptometer," contributed talk at **2011 Annual Meeting of the California-Nevada Section of the APS**, November 11-12, SLAC National Accelerator Laboratory, Menlo Park, California, Abstract # B3.00009 (2011). [Student Presentation from PCH Lab]
90. Nicholas Soliz, Ulises Urbina, and Pei-Chun Ho, "Experimental Probe for Measurement of Thermodynamic Properties," contributed talk at **2011 Annual Meeting of the California-Nevada Section of the APS**, November 11-12, SLAC National Accelerator Laboratory, Menlo Park, California, Abstract # F3.00007 (2011). [Student Presentation from PCH Lab]
91. Max Bright, Michael Duncan, William Dunn, Brian Emerson, Jeraldo Matinez, Jussi Amaral, Simon Gonzalez, Academic Advisors: Dr. Pei-Chun Ho, Dr. Doug Singleton, Mr. Don Williams, "Fresno State Physics Outreach," poster presentation at **2011 SPS** (Society of Physics Students) **Zone 18 Meeting**, May 6-7, California State Polytechnic University, Pomona, California (2011). [Student Presentation]
92. Jose Amaral, Dulce Romero, Pei-Chun Ho, Saeed Attar, Melissa Golden, and Dennis Margosan, "Synthesis and analysis of rare-earth gadolinium nanoparticles," oral presentation at **the 3rd Annual Graduate Research and Creative Activities Symposium**, May 5, Henry Madden Library, California State University, Fresno, California (2011). [Student Presentation from PCH Lab]
93. Jose Amaral, Dulce Romero, Pei-Chun Ho, Saeed Attar, Melissa Golden, and Dennis Margosan, "Synthesis and analysis of rare-earth gadolinium nanoparticles," contributed talk at **the 32th Annual Central California Research Symposium**, Session J, April 6, California State University, Fresno (2011). [Student Presentation from PCH Lab; Jose Amaral won "Best Science Presentation" award, sponsored by the San Joaquin Valley Section of the American Chemical Society, for the graduate student oral presentation.]
94. Carmin Liang, Dulce Romero, Jussi Amaral, Faculty Advisor: Pei-Chun Ho, "Synthesis and characterization of rare-earth gadolinium nanoparticles," **the 25th National Conference on Undergraduate Research**, Oral Session, Ithaca College, Ithaca, New York, March 31 – April 2, 2011. [Student Presentation from PCH Lab]
95. P.-C. Ho, R. E. Baumbach, A. A. Dooraghi, M. B. Maple, and T. Yanagisawa, "Shubnikov-de Haas effect measured on single crystals of $CeOs_4Sb_{12}$ and $NdOs_4Sb_{12}$ along the high symmetry directions," poster presentation at **2011 APS March Meeting**, March 21-25, Dallas, Texas, Abstract #H22.00004 (2011).
96. P.-C. Ho, R. E. Baumbach, A. A. Dooraghi, M. B. Maple, and T. Yanagisawa, "Evolution of Power-Law Behavior of Temperature Dependence of Electrical Resistivity in $Pr_{1-x}Nd_xOs_4Sb_{12}$," poster presentation at at **2011 APS March Meeting**, March 21-25, Dallas, Texas, Abstract #K1.00288 (2011).

97. Jose Amaral, Carmin Liang, Ducle Romero, P.-C. Ho, Saeed Attar, Dennis Margosan, "Synthesis and Analysis of Rare-Earth Nanoparticles Gd and Nd," poster presentation at **2011 APS March Meeting**, March 21-25, Dallas, Texas, Abstract #K1.00183 (2011). [Student Presentation from PCH Lab]

    http://www.spsnational.org/meetings/reports/2011/aps_march_amaral.htm

98. R. E. Baumbach, L. Shu, M. Janoschek, E. Gonzales, K Huang, T. A. Sayles, J. J. Hamlin, D. A. Zocco, C. A. McElroy, M. B. Maple, J. Paglione, P.-C. Ho, and J. R. O'Brien, "Cooperative intermediate valence and anomalous stability of the Kondo lattice in $Ce_{1-x}Yb_xCoIn_5$," poster presentation at **2011 APS March Meeting**, March 21-25, Dallas, Texas, Abstract #B22.00010 (2011).

99. Jose Amaral, Ducle Romero, Carmin Liang, P.-C. Ho, Saeed Attar, Dennis Margosan, "Synthesis and Analysis of Rare-Earth Nanoparticles Gd and Nd," contributed talk at **2010 Annual Meeting of the California-Nevada Section of the APS**, October 29-30, California Institute of Technology, Pasadena, CA, Abstract # H1.00012 (2010). [Student Presentation from PCH Lab; Jose Amaral won "Margaret Burbidge Award - 2nd Place" for Experimental Research by a Graduate Student]

100. P.-C. Ho, M. B. Maple, R. E. Baumbach, and T. Yanagisawa, "Non Fermi liquid behavior in the $Pr_{1-x}Nd_xOs_4Sb_{12}$ system" changed to "Evolution of Power-Law Behavior of Temperature Dependence of Electrical Resistivity in $Pr_{1-x}Nd_xOs_4Sb_{12}$," poster presentation at **SCES 2010 – International Conference on Strongly Correlated Electron Systems**, June 27 – July 2, Santa Fe, New Mexico; Abstract # Th012 (2010).

101. R. E. Baumbach, J. J. Hamlin, L. Shu, D. A. Zocco, M. B. Maple, J. M. O'Brien, and P.-C Ho, "Unconventional magnetic field tuned quantum ground states in the noncentrosymmetric compound $Yb_2Fe_{12}P_7$," poster presentation at **SCES 2010 – International Conference on Strongly Correlated Electron Systems**, June 27 – July 2, Santa Fe, New Mexico; Abstract # Th037 (2010).

102. R. Movshovich, N. Kurita, H.-O. Lee, P.-C. Ho, M. B. Maple, Y. Tokiwa, C. F. Miclea, E. D. Bauer, F. Ronnin, P. Sengupta, I. Vekhter, Z. Fisk, and J. D. Thompson, "Thermal and magnetic properties of low-temperature antiferromagnet $Ce_4Pt_{12}Sn_{25}$," poster presentation at **SCES 2010 – International Conference on Strongly Correlated Electron Systems**, June 27 – July 2, Santa Fe, New Mexico; Abstract # TU066 (2010).

103. D. Romero, C. Liang, P.-C. Ho, S. Attar, and D. Margosan**,** "Preparation and Analysis of Rare-Earth Nanoparticles (Gd and Nd)," poster presentation at **the 3rd Annual CSM Student Poster Symposium**, May 7, hosted by the College of Science and Mathematics, California State University, Fresno (2010). [Student Presentation from PCH Lab]

104. U. I. Urbina and P.-C. Ho, "Instrumentation for measuring specific heat of rare-earth materials," poster presentation at **the 3rd Annual CSM Student Poster Symposium**, May 7, hosted by the College of Science and Mathematics, California State University, Fresno (2010). [Student Presentation from PCH Lab]

105. J. J. Thompson and P.-C. Ho, "Constructing a multiplexer (scanner)," poster presentation at **the 3rd Annual CSM Student Poster Symposium**, May 7, hosted by the College of Science and Mathematics, California State University, Fresno (2010). [Student Presentation from PCH Lab]

106. Dulce Romero, Pei-Chun Ho, Saeed Attar, and Dennis Margosan, "Preparation of Gd and Nd Nanoparticles using Inverse Micelle Technique," oral presentation at **Graduate Research and Creative Activities Symposium**, May 6, Henry Madden Library, California State University, Fresno (2010). [Student Presentation from PCH Lab]

107. U. I. Urbina and P.-C. Ho, "Instrumentation for measuring specific heat of rare-earth materials," poster presentation at **Graduate Research and Creative Activities Symposium**, May 6, Henry Madden Library, California State University, Fresno (2010). [Student Presentation from PCH Lab]

108. Johnathon J. Thompson and Pei-Chun Ho, "Constructing a multiplexer (scanner)," **the 24th Annual California State University Student Research Competition**, April 30 -May 1, California State University, San Jose (2010). [Student Presentation from PCH Lab]

109. U. I. Urbina and P.-C. Ho, "Instrumentation for measuring specific heat of rare-earth materials," poster presentation at **the 24th Annual California State University Student Research Competition**, April 30 -May 1, California State University, San Jose (2010). [Student Presentation from PCH Lab]

110. Dulce Romero, Pei-Chun Ho, Saeed Attar, and Dennis Margosan, " Synthesis and characterization of Gd and Nd nanoparticles," contributed talk at **the 31th Annual Central California Research Symposium**, Session E, April 23, California State University, Fresno (2010). [Student Presentation from PCH Lab]

111. Johnathon J. Thompson and Pei-Chun Ho, "Constructing a multiplexer (scanner)," contributed talk at **the 31th Annual Central California Research Symposium**, Session C, April 23, California State University, Fresno (2010). [Student Presentation from PCH Lab]

112. Ulises Urbina and Pei-Chun Ho, "Instrumentation for measuring specific heat of strongly correlated electron materials,"contributed talk at **the 31th Annual Central California Research Symposium**, Session C, April 23, California State University, Fresno (2010). [Student Presentation from PCH Lab, Ulises Urbina won "Honorable Mention" recognition for an Outstanding Oral Presentation]

113. Johnathon J. Thompson, Ulises Urbina, Advisor: Pei-Chun Ho, "Constructing a multiplexer (scanner)," **the 24th National Conference on Undergraduate Research**, Oral Session 7, Missoula, Montana, 4/15-4/17 (2010). [Student Presentation from PCH Lab]

114. D. G. Romero, P.-C. Ho, S. Attar, and D. Margosan, "Progress toward synthesis and characterization of rare-earth nanoparticles," contributed talk at **2010 APS March Meeting**, March 15-19, Portland, Oregon; Abstract # Z37.00001 (2010). [Student Presentation from PCH Lab]

115. U. I. Urbina, J. Thompson, and Pei-Chun Ho, "Instrumentation for measuring thermodynamic properties of rare-earth compounds," poster presentation at **2010 APS March Meeting**, March 15-19, Portland, Oregon; Abstract #K1.00059 (2010). [Student Presentation from PCH Lab]

116. L. Shu, E. Gonzales, K. Huang, T. A. Sayles, R. E. Baumbach, J. J. Hamlin, D. A. Zocco, C. A. McElroy, M. B. Maple, J. Paglione, J. O'Brien, and P.-C. Ho, "Superconducitivity and non-Fermi-liquid behavior in $Ce_{1-x}Yb_xCoIn_5$," contributed talk at **2010 APS March Meeting**, March 15-19, Portland, Oregon; Abstract # J38.00003 (2010).

117. R. Movshovich, N. Kurita, H.-O. Lee, Y. Tokiwa, C. F. Miclea, E. D. Bauer, F. Ronning, J. D. Thompson, P.-C. Ho, M. B. Maple, P. Sengupta, I. Vekhter, and Z. Fisk, "Thermal and magnetic properties of a low-temperature antiferromagnetic $Ce_4Pt_{12}Sn_{25}$," contributed talk at **2010 APS March Meeting**, March 15-19, Portland, Oregon; Abstract # J34.00010 (2010).

118. R. E. Baumbach, J. J. Hamlin, L. Shu, D. A. Zocco, M. B. Maple, J. O'Brien, and P.-C. Ho, "Unconventional magnetic field tuned quantum ground states in the noncentrosymmetric compound $Yb_2Fe_{12}P_7$," contributed talk at **2010 APS March Meeting**, March 15-19, Portland, Oregon; Abstract # J34.00001 (2010).

119. P.-C. Ho, D. E. MacLaughlin, L. Shu, S. Zhao, J. M. Mackie, M. B. Maple, T. Yanagisawa, "Anomalous magnetic moment suppression in the superconducting and ferromagnetic coexistence region in $Pr_{1-x}Nd_xOs_4Sb_{12}$," contributed talk at **2010 APS March Meeting**, March 15-19, Portland, Oregon; Abstract # A38.00005 (2010).

120. Ulises Urbina and Pei-Chun Ho, "Instrumentation for measuring heat capacity of strongly correlated materials," invited colloquium presentation at Fresno City College, Fresno, CA, February 19 (2010). [Student Presentation from PCH Lab]

121. Ulises Urbina and Pei-Chun Ho, "Instrumentation for calorimetric measurements of strongly correlated electron materials," contributed talk, at **2009 Annual Meeting of the California Section of the APS**, Nov. 13-14, Naval Postgraduate School, Monterey, CA (2009). [Student Presentation from PCH Lab]

    http://meetings.aps.org/Meeting/CAL09/Event/114664

122. T. Yanagisawa, H. Saito, T. Mayama, Y. Ikeda, H. Hidaka, H. Amitsuka, Y. Nemoto, T. Goto, N. Takeda, P.-C. Ho, M. B. Maple, "Physical Acoustics of Magnetism and Superconductivity in Filled-Skutterudites Which Possesses Rattling," **International Symposium for Young Scientists on Physics of Strongly Correlated Electrons**, Hokkaido University, Sapporo, Japan, Aug. 26 (2009).

123. J. Thompson and P.-C. Ho, "Multiple Specimen Property Measurement Apparatus: 5-Channel Multiplexer," poster presentation, **Symposium "Celebration of Research Excellence,"** May 8, hosted by the College of Science and Mathematics, California State University, Fresno (2009). [Student Presentation from PCH Lab]

124. U. I. Urbina and P.-C. Ho, "Instrumentation for Measuring Thermal and Electronic Properties of Strongly Correlated Electron Materials," poster presentation, **Symposium "Celebration of Research Excellence,"** May 8, hosted by the College of Science and Mathematics, California State University, Fresno (2009). [Student Presentation from PCH Lab]

125. D. G. Romero, A. Tretyakov, P.-C. Ho, S. Attar, D. Margosan, "Synthesis and Characterization of Gd and Nd nanoparticles," poster presentation, **Symposium "Celebration of Research Excellence,"** May 8, hosted by the College of Science and Mathematics, California State University, Fresno (2009). [Student Presentation from PCH Lab]

126. U. I. Urbina and P.-C. Ho, "Instrumentation for Measuring Thermal and Electronic Properties of Strongly Correlated Electron Materials," poster presentation, **Graduate Research and Creative Activities Symposium**, May 7, Henry Madden Library, California State University, Fresno (2009). [Student Presentation from PCH Lab]

127. D. G. Romero, A. Tretyakov, P.-C. Ho, S. Attar, D. Margosan, "Synthesis and Characterization of Gd and Nd nanoparticles," poster presentations, **Graduate Research and Creative Activities Symposium**, May 7, Henry Madden Library, California State University, Fresno (2009). [Student Presentation from PCH Lab]

128. D. Romero, P.-C. Ho, S. Attar, "Synthesis and Characterization of Gd and Nd nanoparticles," contributed talk at **the 30th Annual Central California Research Symposium,** April 23, California State University, Fresno (2009). [Student Presentation from PCH Lab]

129. A. Tretyakov, D. Romero, P.-C. Ho, "Rare earth metal nanoparticles grown by inverse micelle method," poster presentation at **the 30th Annual Central California Research Symposium**," April 23, California State University, Fresno (2009). [Student Presentation from PCH Lab; Dulce Romerno won "Best Presentation for an Outstanding Poster"]

130. P.-C. Ho, M. B. Maple, T. Yanagisawa, W. M. Yuhasz, N. P. Butch, A. A. Dooraghi, C. C. Robinson, "Effect of ferromagnetism on unconventional superconductivity in the $Pr_{1-x}Nd_xOs_4Sb_{12}$

system," contributed talk at **2009 APS March Meeting** , March 16-20, Pittsburgh, Pennsylvania; Abstract # A41.00005 (2009)

131. D. Coffey, M. DeMarco, P.-C. Ho, T. Sayles, M. B. Maple, J. W. Lynn, and Q. Huang, "Collapse of the hyperfine magnetic field at the Ru site in $GdRu_2$ and $HoRu_2$," contributed talk at **2009 APS March Meeting** , March 16-20, Pittsburgh, Pennsylvania; Abstract # B32.00007 (2009).
132. Ducle G. Romero, Pei-Chun Ho, Saeed Attar, "Synthesis and characterization of Gd and Nd nanoparticles," poster presentation at **2009 APS March Meeting** , March 16-20, Pittsburgh, Pennsylvania; Abstract # K1.00066 (2009). [Student Presentation from PCH Lab]
133. Ulises Urbina, Pei-Chun Ho, Daqing Zhang, "I-V curve of Randomly Oriented ZnO Nanowires," contributed talk, at **2008 Annual Meeting of the California Section of the APS**, October 17-18, California State University, Dominguez Hills, Carson, CA (2008). [Student Presentation from PCH Lab]

    http://aps-ca.lbl.gov/abstracts-2008.html
134. Dulce G. Romero, Pei-Chun Ho, Saeed Attar "Synthesis and Characterization of Gd Nanoparticles," contributed talk at **2008 Annual Meeting of the California Section of the APS**, October 17-18, California State University, Dominguez Hills, Carson, CA (2008). [Student Presentation from PCH Lab]

    http://aps-ca.lbl.gov/abstracts-2008.html
135. D. G. Romero and P.-C. Ho, "Progress towards Growth and Characterization of Rare-Earth Nanoparticles using the Inverse Micelle Method," contributed talk at **the 2008 SPS Zone 18 Meeting**, May 3, University of California, Santa Cruz (2008). [Student Presentation from PCH Lab]

    http://sirius.ucsc.edu/sps/?page_id=111
136. D. G. Romero and P.-C. Ho, "Progress towards growth and characterization of rare-earth nanoparticles using the inverse micelle method," Poster presentation at **2008 APS March Meeting**, March 10-14, New Orleans, Louisiana; Abstract # K1.00092 (2008). [Student Presentation from PCH Lab]
137. M. M. Qazilbash, G. O. Andreev, D. N. Basov, P.-C. Ho, M. B. Maple, M. Brehm, F. Keilmann, A. V. Balatsky, B.-G. Chae, B. J. Kim, S. J. Yun, and H.-T. Kim, "Mott transition in vanadium dioxide (VO_2) observed by infrared spectroscopy and nano-imaging," contributed talk at **2008 APS March Meeting**, March 10-14, New Orleans, Louisiana; Abstract # V12.00004 (2008).
138. N. Kurita, H.-O. Lee, Y. Tokiwa, E. D. Bauer, J. Thompson, Z. Fisk, P.-C. Ho, M. B. Maple, and R. Movshovich, "Low-temperature thermal and transport properties of single-crystalline $Ce_4Pt_{12}Sn_{25}$," contributed talk at **2008 APS March Meeting**, March 10-14, New Orleans, Louisiana; Abstract # P12.00007 (2008).
139. R. Baumbach, P.-C. Ho, T. Sayles, M. B. Maple, R. Wawryk, T. Circhorek, A. Pietraszko, and Z. Heinkie, "Non-Fermi liquid behavior in the filled skutterudite compound $CeRu_4As_{12}$," contributed talk at **2008 APS March Meeting**, March 10-14, New Orleans, Louisiana; Abstract # P12.00006 (2008).
140. P.-C. Ho, J. Singleton, M. B. Maple, P. Goddard, and T. Yanagisawa "High-field de Haas-van Alphen investigation of the filled skutterudite compound $NdOs_4Sb_{12}$," contributed talk at **2008 APS March Meeting**, March 10-14, New Orleans, Louisiana; Abstract # P12.00005 (2008).
141. J. Singleton, P.-C. Ho, W. M. Yuhasz, T. Yanagisawa, T. A. Sayles, N. P. Butch, M. B. Maple, P. Goddard, A. Pietraszko, R. Wawryk, Z. Henkie, and H. Harima, "Fermi-surface topology and field-dependent effective masses in the filled skutterudite $PrOs_4As_{12}$," invited talk at **SCES'07** (**the**

International Conference on Strongly Correlated Electron Systems), May 13-18, Houston, Texas; Program and Abstracts, p. 139, Heavy fermion II-3 (2007).

142. T. Yanagisawa, W. M. Yuhasz, P.-C. Ho, M. B. Maple, H. Watanabe, Y. Yasumoto, Y. Nemoto, T. Goto, Z. Henkie, and A. Pietraszko, "Ultrasound study of the filled skutterudite compound $NdOs_4Sb_{12}$," invited talk at **SCES'07** (**the International Conference on Strongly Correlated Electron Systems**), May 13-18, Houston, Texas; Program and Abstracts, p. 138, Heavy fermion II-1 (2007).

143. P.-C. Ho, T. Yanagisawa, N. P. Butch, W. M. Yuhasz, C. C. Robinson, A. A. Dooraghi, and M. B. Maple, "A comparison of the normal and superconducting state properties of $Pr(Os_{1-x}Ru_x)_4Sb_{12}$ and $Pr_{1-x}Nd_xOs_4Sb_{12}$," poster at **SCES'07** (**the International Conference on Strongly Correlated Electron Systems**), May 13-18, Houston, Texas; Program and Abstracts, p. 39, Poster Session I-76-Superconductivity-Unconventional non-High T_c (2007).

144. N. P. Butch, J. R. Jeffries, B. T. Yukich, T. A. Sayles, J. P. Paglione, P.-C. Ho, and M. B. Maple, "The search for quantum criticality in the $URu_{2-x}Re_xSi_2$ phase diagram," contributed talk at **2007 APS March Meeting**, March 5-9, Denver, Colorado; Abstract # P10.00007 (2007).

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