

RESEARCH

Dr. Lopez has performed research on nuclear physics, gravity waves, astrophysics, physics education, pre-K science teaching, materials science, and applications of scientific methods to social sciences including political science, anthropology and cultural heritage. Has had collaborations with researchers in Berkeley, CA, Buenos Aires and several institutions in Mexico. Has edited and written books and journal articles on research topics, has obtained funds for research activities, and organized regional, national and international meetings. In particular, he played a key role initiating the Latin American Symposium on Nuclear Physics and Applications, and in founding the Division of Radiation Physics of the Mexican Society of Physics.

SYNERGISTIC ACTIVITIES

- Reconstruction of the materials characterization laboratory. Project funded by The Department of Defense to refurbish surface physics research equipment such as Auger/XPS/SIMS spectroscopy PHI 560 ESCA/SAM Perkin Elmers; to date seven MS students have graduated with research based on such equipment.
- Latin American Symposium on Nuclear Physics and Applications. Invited by Dr. Laszlo Sajo Bohus (Universidad Simon Bolivar, Caracas, Venezuela) in 1995, Dr. Lopez participated in the creation and strengthening of the Symposium. Now in its 9th edition, the Symposium has been held in Venezuela, Colombia, Mexico, Brazil, Argentina, Peru, Chile and – in 2011— in Ecuador.
- Division of Radiation Physics of the Mexican Society of Physics. Invited by Drs. Efrain Chavez and Guillermo Espinosa (Universidad Nacional Autonoma de Mexico) in 2003, Dr. Lopez participated in the creation and strengthening of the Division. Now in its 8th year, the Division has organized meetings in Mexico City (twice), Chihuahua, Villa Hermosa, Zacatecas, and –in 2011— in Cuernavaca.
- Donation of research equipment. Thanks to direct intervention of Dr. Lopez, 1) valuable pieces of an accelerator were donated by Oak Ridge National Lab to Mexico's Instituto Nacional de Investigaciones Nucleares, 2) an electron accelerator was donated by Texas Christian University to New Mexico State University, and 3) a proton accelerator was donated by Sandia National Lab to New Mexico State University.

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63. A. Barrañón, J.A. López, C. Dorso and A. Chernomoretz, "Excitation Temperature and Projectile Energy Dependence of Liquid-Gas Phase Transition in He+Ag HIC", program of the International Materials Research Congress, Cancun'2000, Ago 27-31, 2000, http://cuca.mda.cinvestav.mx/cancun/abs_barra2.html.
64. Armando Barranon-Cedillo, Jorge A. López, R. Cardenas, Claudio Dorso, Ariel, Ni+Ni IMF Invariant rapidity cross sections analysis, program of the APS Boston meeting, November 1, 2000.
65. Armando Barranon-Cedillo, Jorge A. López, R. Cardenas, Claudio Dorso, Ariel Chernomoretz, Moment and Parallel velocity fragment distribution reconstructions in a Participant-Spectator scenario, program of the APS Boston meeting, October 29, 2000.
66. Jorge A. López, Claudio Dorso, and Ariel Chernomoretz, "Caloric Curve in Collisions", program of the APS meeting, April, 2000. <http://www.eps.org/aps/meet/APR00/baps/abs/S5430.html#SP14.011>.
67. Armando Barranon-Cedillo, Jorge A. López, Claudio Dorso, Ariel Chernomoretz, "Evidence of a Phase Transition for He+Ag IMF Collision", program of the APS meeting, April, 2000. <http://www.eps.org/aps/meet/APR00/baps/abs/S5430.html#SP14.007>.
68. Jorge A. López and Ricardo Correa, "Modern physics simulations", program of the meeting of the Texas Section of the American Physical Society, Rice U., Houston, Texas. Oct. 28-29, 2000.
69. Martha Navarro, A. Chernomoretz, C. O. Dorso, and Jorge A. López, "Semi classical model to study nuclear fragmentation", program of the meeting of the Texas Section of the American Physical Society, Rice U., Houston, Texas. Oct. 28-29, 2000.
70. Jorge A. López, A. Chernomoretz and C. O. Dorso, "The caloric curve in collisions", program of the meeting of the Texas Section of the American Physical Society, Rice U., Houston, Texas. Oct. 28-29, 2000.
71. J. A. López, A. Barrañón Cedillo, C.O. Dorso, "Searching for criticality in nuclear fragmentation", Conference Handbook of XXV Symposium on Nuclear Physics, Ed. A. Menchaca Rocha. p. 10, January 3-6, 2000.
72. A. Barrañón Cedillo, J. A. López, R. Cardenas, C. Dorso, A. Chernomoretz, "Moment and Parallel velocity fragment distribution reconstructions in a Participant-Spectator scenario", Program of the 2000 Fall Meeting of The Texas Section of the American Physical Society, p. , 2000.
73. A. Barrañón Cedillo, J. A. López, and M. Navarro, "Testing Campi statistics in HIC", Bulletin of the American Physical Society, 45, 117, 2000.

74. A. Barrañón Cedillo, J. A. López, C. O. Dorso, and A. Chernomóretz, "Evidence of a phase transition for He+Ag IMF collisions", Bulletin of the American Physical Society, 45, 116, 2000.
75. J. A. López, C. O. Dorso, and A. Chernomóretz, "The caloric curve in collisions", Bulletin of the American Physical Society, 45, 117, 2000.
76. A. Barrañón Cedillo, J. A. López, M. Navarro, and C. O. Dorso, "Asymptotic Behavior of the He-Ag IMF Collision", Conference Handbook of XXIII Symposium on Nuclear Physics, Ed. R. Bijker, January 10-13, 2000.
77. A. Chernomoretz, C. O. Dorso, and J. A. López, "The Caloric Curve in Nuclear Fragmentation", Conference Handbook of III Latin American Workshop on Nuclear Physics, Ed. F. Cristancho, Sep., 1999.
78. A. Barrañón and J. A. López, "Parameter Dependence of Schroedinger Equation Energy Surfaces", published in the Proceedings of the XXXI Congreso Nacional de la Sociedad Matematica Mexicana. Aportaciones Matematicas, Serie Comunicaciones 25, 191-197, 1999.
79. A. Barrañón, A. Chernomoretz, C. O. Dorso, J. A. López, J. Morales, "A Semi-Classical Model to Study Nuclear Fragmentation", Conference Handbook of XXII Symposium on Nuclear Physics, Ed. R. Bijker, Jan., 1999.
80. J.A. Lopez, X. Wang, and C.O. Dorso, "Fragmentation Landscapes", Bulletin of the Meeting of the American Physical Society, Columbus, Ohio, April 18-21, 1998.
81. J. Morales, J. A. Lopez, and J. Gardea-Torresdey, "Using AIXE to Search for Heavy Metals in Vegetation", Bulletin of the Meeting of the American Physical Society, Columbus, Ohio, April 18-21, 1998.
82. C.O. Dorso, J.A. Lopez, and J. Morales, "Excitation Energy in 3He on 107Ag at 4.8 GeV/A", Bulletin of the Meeting of the American Physical Society, Columbus, Ohio, April 18-21, 1998.
83. J.A. Lopez, "Breaking Nuclei", Bulletin of the Meeting of the American Physical Society, Columbus, Ohio, April 18-21, 1998.
84. M. Suskavcevic, J. López and C. Velasco, "Modern Physics Simulations", Program of the 1998 Meeting of The Texas Section of the American Physical Society, p. 17, 1998.
85. M. Castro-Colín, J. López and R. Osegueda, "Identification of Laser-Induced Lamb Waves in Al Plates", Program of the 1998 Meeting of the Texas Section of The American Physical Society, p. 15, 1998.
86. C.O. Dorso, J.A. Lopez, X. Wang, and M. Castro Colin, "Selected Decays in Fragmentation", Conference Handbook of XXI Symposium on Nuclear Physics, Ed. J. Besprosvany, held in Oaxtepec, Mexico, Jan. 5-8, 1998.
87. J.A. Lopez, and J. Morales, "Computer Simulations of 3He on 107Ag at 4.8 GeV/A", Conference Handbook of XXI Symposium on Nuclear Physics, Ed. J. Besprosvany, held in Oaxtepec, Mexico, Jan. 5-8, 1998.
88. R. Coronado and J.A. Lopez, "Search of Gravity Waves", Bulletin of the NCUR-97 Conference, to be held in Austin, Texas, April 24-26, 1997.
89. J.A. Lopez and J. Morales, "Hadron Gas", Bulletin of the NCUR-97 Conference, Austin, Texas, April 24-26, 1997.
90. J.A. Lopez and R. Medellin, "Criticality in Nuclear Fragmentation", Bulletin of the NCUR-97 Conference, Austin, Texas, April 24-26, 1997.
91. A. Aranda, J.A. Lopez and Z. Wu, "Preferred Decays in Nuclear Fragmentation", Bulletin of the Meeting of the Canadian-American-Mexican Physics Societies, Washington, D.C., April 18-21, 1997.
92. J.A. Lopez "Mapping the Phase Diagram of Nuclear Matter", Bulletin of the Meeting of the Canadian-American-Mexican Physics Societies, Washington, D.C., April 18-21, 1997.
93. J.A. Lopez, A. Aranda, C.O. Dorso, V. Furci, "Mapping the Phase Diagram of Nuclear Matter", Bulletin of the Meet. of the Canadian-American-Mexican Physics Societies, Washington, D.C., April 18-21, 1997.
94. J. A. Lopez, "Potentials for the Hadron Gas", Second Latin-American Workshop on Nuclear and Heavy Ion Physics, Eds. L. Sajo Bohus, Jacinto Liendo, and Rafael Martin, Universidad Simon Bolivar, Caracas, Venezuela, Sept. 1997.
95. M. Castro Colin, J.A. López, and R. Osegueda, "Characterization of Laser-Based Ultrasonic Modes Induced in an Aluminum Plate", Bull. of the Texas Section of the American Physical Society, Oct. 1997.
96. R. Coronado and J.A. Lopez, "Signal Analysis Techniques for Gravity Wave Detection in Spacecraft Tracking Data", Bull. Texas Section of the Am. Phys. Soc., Mar. 1996.
97. R. Armendariz and J.A. Lopez, "Searching Spacecraft Tracking Data for Gravity Wave Signatures", Bull. Texas Section of the Am. Phys. Soc., March 1996.
98. T. Robinson and J.A. Lopez, "Features of the Collision of Heavy Ions at Low Energies", Bull. Texas Section of the Am. Phys. Soc., March 1996.
99. A. Aranda and J.A. Lopez, "Phase Space Correlations in Nuclear Fragmentation", Bulletin of the Texas Section of the American Physical Society, March 1996.
100. J.D. Anderson, R. Armendariz, R. Coronado, J.A. Lopez and J. Morales, "Signal Analysis Techniques for Gravity Wave Detection and Verification in Spacecraft Tracking Data", Bulletin of the Texas Section of the American Physical Society, Oct. 1996.
101. J. A. Lopez and C. Velasco, "Computer Simulations for Modern Physics", Bulletin of the Texas Section of the American Physical Society, Oct. 1996.

102. A. Aranda, J.A. Lopez and Z. Wu, "Preferred Decays in Nuclear Fragmentation", Bulletin of the Texas Section of the American Physical Society, Oct. 1996.
103. J.A. Lopez and R. Medellin, "Boiling Drops of Argon", Bulletin of the Texas Section of the American Physical Society, Oct. 1996.
104. J.D. Anderson, R. Armendariz, R. Coronado, J.A. Lopez and J. Morales, "The Search for Gravity Waves in Spacecraft Tracking Data", Bulletin of the Texas Section of the American Physical Society, Oct. 1996.
105. R. Coronado and J.A. Lopez, "Gravity Wave Signatures in Satellite Tracking Data", in Abstracts of 3rd Annual NSF AMP Research Conference. July 30-Aug. 1, 1995, UC Irvine, California.
106. R. Coronado, J.A. Lopez, and J.D. Anderson, "Missing Data in Spacecraft Signals, Detection of a Gravity Wave?", Bull. Texas Section of the Am. Phys. Soc., Oct. 1995.
107. R. Coronado and J.A. Lopez, and J.D. Anderson, "Gravitational Wave Detection and Verification in Spacecraft Tracking Data", Bull. Texas Section of the Am. Phys. Soc., Oct. 1995.
108. A. Aranda, J.A. Lopez, C.O. Dorso, and V. Furci, "A Study of Fluctuations in Nuclear Fragmentation", Bulletin of the Texas Section of the American Physical Society, Oct. 1995.
109. J. Morales, J.A. Lopez and J.D. Anderson, "Gravitational Wave Detection in Spacecraft Tracking Data", Bulletin of the Texas Section of the American Physical Society, Oct. 1995.
110. A. Aranda, C. Dorso, and J.A. Lopez, "The Onset of Nuclear Fragmentation", Abstract published in the Bulletin of the American Physical Society, Mar. 11, 1994.
111. G. Rivas, J. Anderson, and J.A. Lopez, "Search of Gravity Waves by Autocorrelation Techniques", Bulletin of the Texas Section of the American Physical Society, Mar. 11, 1994.
112. M. Borunda, and J.A. Lopez, "On the Formation of Hollow Configurations", Abstract published in the Bulletin of the American Physical Society, Mar. 11, 1994.
113. J.A. Lopez, "Nuclear Fragmentation", Abstract published in the Bulletin of the American Physical Society, 38, p. 955, 1993.
114. J.A. López, "Breakup of Excited ^{16}O Into Four at Intermediate Energies", Bulletin of the American Physical Society, 37, p. 1274, 1992.
115. J.A. López and J. Randrup, "Transition State Treatment of Nuclear Fragmentation", Bulletin of the American Physical Society, 35, 1990.
116. B.A. Harmon, J. Pouliot, J.A. López, J. Suro, R. Knop, Y. Chan, D.E. DiGregorio, and R.G. Stokstad, "Kinematical Signatures of the Projectile Breakup Process at 32.5 MeV/Nucleon", Bulletin of the American Physical Society, 35, 1990.
117. J.A. López and P. Siemens, "Phase Transitions in Nuclear Matter", Bulletin of the American Chemical Society, 1985.

PRESENTATIONS IN CONFERENCES

National and International Meetings

1. "Métodos matemáticos para análisis de elecciones", Congreso de matemáticas aplicadas a las ciencias sociales, Centro Universitario de Ciencias Sociales y Humanidades, Universidad de Guadalajara, Guadalajara, México, Mar. 12-13, 2011. <http://www.cucsh.udg.mx/Eventos/2011/pdfs/cmate11.pdf>
2. "Recruitment and retention of Hispanics in physics: a multifaceted approach", SPIN UP Workshop, AAPT, CalPoly State University, San Luis Obispo, CA, Jun. 27, 2010. www.aapt.org/Programs/projects/spinup/upload/SLO-Recruiting-and-Retaining-Hispanics.pdf.
3. "Origin of isoscaling: confinement and expansion", invited talk, VI Symposium on Radiation Physics, Latin American Workshop on Particle Accelerators, Zacatecas, Mexico D.F., 3/7-10/2010, www.smf.mx/~fr-smf/.
4. "Classical studies of nuclear isoscaling", contributed talk, Joint Meeting of APS Division of Nuclear Physics and Physical Society of Japan, Kona, Hawaii, 10/14/2009. <http://meetings.aps.org/Meeting/HAW09/Event/107850>.
5. "A study of nuclear isoscaling", invited talk, V Symposium on Radiation Physics, Latin American Workshop on Particle Accelerators, and Latin American Workshop on Nuclear Track Detectors, UNAM, Mexico D.F., Mar. 8-11, 2009, <http://www.smf.mx/~fr-smf/>.
6. "Nuclear Isoscaling", invited talk, delivered at the II Symposium of the Division of Radiations of The Mexican Physics Society, Chihuahua, Feb 26-Mar 2, 2006.
7. "A Classical Mechanics Study of Isoscaling", invited talk, delivered at the VI Latin American Symposium on Nuclear Physics, Iguazú, Argentina, Oct. 3-7, 2005. http://www.tandar.cnea.gov.ar/misc/SLAFNAP6.php?action=show_section§ion=Main.

8. Mentoring minorities in physics, invited talk delivered at the 2005 APS April Meeting, Session H2: Mentoring in Physics education, 4/17/2005, Tampa, FL, <http://meetings.aps.org/Meeting/APR05/Event/29001>.
9. Evolution of isoscaling, contributed talk delivered at the 2005 APS April Meeting, Session R12: Nuclear Reactions, 4/17/2005, Tampa, FL, <http://meetings.aps.org/Meeting/APR05/Event/29881>.
10. Reacciones de Iones Pesados, series of lectures presented at the IV Escuela Mexicana de Física Nuclear held at The Univ. Nacional Autónoma de México, 6/27-7/8/2005, <http://www.teorica.fisica.unam.mx/escuela-2005/>.
11. Analytical facilities at The University of Texas at El Paso, invited talk delivered at the "I International Symposium on Radiation Physics", held in ININ/UNAM Mexico City, Dec. 1-3, 2003.
12. "Entropy and Size in the Nuclear Caloric Curve", invited talk, delivered at the V Latin American Symposium on Nuclear Physics, Santos, Brazil, 9/1-5, 2003, <http://www.sbf1.if.usp.br/eventos/rtfmb/xxvii/>.
13. Alpha Particle Induced X-Ray Emission in the Classroom, contributed talk delivered at the 17th International Conference on the Application of Accelerators in research and Industry, CAARI 2002, Denton, TX, USA, Nov. 12-16, 2002.
14. "La nueva termodinámica", plenary talk delivered at the XLIV National Meeting of the Mexican Society of Physics, Morelia, Michoacan, Mexico, Oct. 2001.
15. "Development of pre-service teachers constructive pedagogical thinking", plenary talk presented by Arturo Pacheco, Mourat Tchoshanov, Sally Blake and Jorge Lopez at the International Conference on Intellectual Potential of a Society and Development of Students, Kazan, Russia, May 16-18, 2001.
16. "Teaching science using a field-based prospective", invited talk presented by Jorge Lopez at the Tatar State Institute for Professional Development of Educator (Leon Tolstoi's House) in the International Conference on Intellectual Potential of a Society and Development of Students, Kazan, Russia, May 16-18, 2001.
17. "Searching for criticality in nuclear fragmentation", invited talk, delivered at the XXIV Symposium on Nuclear Physics, Taxco, Mexico, Jan. 3-6, 2001.
18. "The caloric curve in collision", contributed talk, National Meeting of the American Physical Society, Long Beach, California, April 29 - May 2, 2000.
19. "Boiling Nuclei", invited Talk to be delivered at the meeting of the National Society of Hispanic Physicists, Portland, Oregon Oct. 1999.
20. "Preliminary Results of Latino", invited Talk to be delivered at the Third Latin-American Workshop on Nuclear and Heavy Ion Physics, San Andres, Colombia. Sept. 1999.
21. "Transition State Treatment of Nuclear Fragmentation", Invited Talk, Third Latin-American Workshop on Nuclear Physics, Ed. L. Sajo Bohus, San Andres, Colombia, Sept. 1999.
22. "Latino: a semi-classical model to study heavy ion reactions", XXII Symposium on Nuclear Physics, Oaxtepec, Mexico, January 4-9, 1999.
23. "Breaking Nuclei", invited talk, American Physical Society, Columbus, Ohio, during April 18-21, 1998.
24. "Fragmentation Landscapes", contributed talk, Meeting of the American Physical Society, Columbus, Ohio during April 18-21, 1998.
25. "Mapping the Nuclear Phase Diagram", invited talk, Symposium on the Nuclear Equation of State in the Meeting of the Canadian-American-Mexican Physics Societies, Washington, D.C. April 1997.
26. "Phase Diagram of Nuclear Matter", invited Talk, Second Latin-American Workshop on Nuclear and Heavy Ion Physics, Caracas, Venezuela. Sept. 1997.
27. "Potentials for the Hadron Gas", invited Talk, Second Latin-American Workshop on Nuclear and Heavy Ion Physics, Caracas, Venezuela. Sept. 1997.
28. "Busqueda de Ondas Gravitacionales", invited talk, Semana de Matemáticas y Astronomía, Univ. Autónoma de Ciudad Juárez, 4/7/97.
29. "Search for Gravity Waves using the Pioneer 1993 Tracking Data", invited talk, Pioneer Users Meeting, University of Chicago, Chicago, IL, July 24-25, 1996.
30. "Transition State Treatment of Nuclear Fragmentation", invited talk, First Latin-American Workshop on Nuclear Physics, Ed. L. Sajo Bohus, Universidad Simon Bolivar, Caracas, Venezuela. Sept. 1995.
31. "Fragmentation Volume", XVIII Symposium on Nuclear Physics, Oaxtepec, Mexico, January 4-7, 1995.
32. "Nuclear Fragmentation", invited talk, Meeting of the Assoc. of Black Physics Students, 2/94, Atlanta, GA.
33. "Hispanics in Physics", invited talk presented at the Forum on Education "Diversity at the Classroom", at the Joint Meeting of the American Physical Society and the American Association of Physics Teachers, April Meeting of APS, Crystal City VA, 4/94.
34. "Nuclear Fragmentation", invited talk, Joint Meeting of the American Physical Society and the American Association of Physics Teachers, 4/1993, Wash., DC.
35. "Physics Circus", presented at the 1993 SACNAS Conference, January 1993, Albuquerque, New Mexico.

36. "Breakup of Excited ^{16}O into Four at Intermediate Energies", contributed talk, Meeting of the Division of Nuclear Physics of the American Physical Society, October 14-16, 1992, Santa Fe, New Mexico.
37. "Breakup of Small Projectiles", invited talk, Argentinean Workshop on Nuclear Physics, September 14-18, 1992, Buenos Aires, Argentina.
38. "Nuclear Spinodal Decomposition", invited talk, XV Symposium on Nuclear Physics, 1/1992, Oaxtepec, Mexico.
39. "Cumulos Galacticos y la Materia Faltante", 4th. Annual Astronomy Week of the "Sociedad Astronomica Juarensis", May 28, 1991, Juarez, Mexico.
40. "Transition State Treatment of Nuclear Fragmentation", invited talk, XIV Symposium on Nuclear Physics, January 7-10, 1991, Cuernavaca, Mexico.
41. "Sequential Breakup of Small Nuclear Projectiles", invited talk, 6th Winter Meeting Workshop on Nuclear Dynamics, February 17-24, 1990, Jackson, Wyoming.
42. "From Fission to Multifragmentation", invited talk, Nuclear Chemistry Symposium of the 197th National Meeting of The American Chemical Society April 10-14, 1989, Dallas, Texas.
43. "Fission Versus Multifragmentation", Gordon Conference on Nuclear Structure, 7/1988, Tilton, New Hampshire.
44. "A Complete (?) Model for Heavy Ion Reactions", invited talk, Meeting of the CHIC Collaboration, April 1987, Bergen, Norway.
45. "Pions and Fragmentation", invited talk, Workshop on Nuclear Physics at Intermediate and High Energies, May 1986, Budapest, Hungary.
46. "Phase Transitions in Nuclear Matter", invited talk, 189th Meeting of the American Chemical Society, May 1985, Miami, Florida.
47. "The Quark Gluon Plasma", invited talk, VII Symposium on Nuclear Physics, January 1985, Oaxtepec, Mexico.
48. "Screening in the QCD Plasma", Gordon Conference on Nuclear Structure, August, 1984, Tilton, New Hampshire.
49. "Nuclear Fragmentation", invited talk, VI Symposium on Nuclear Physics, January, 1984, Oaxtepec, Mexico.

Regional Meetings

50. "Nuclear isoscaling and fair sampling", invited talk, 2008 Joint Fall Meeting of the Texas and Four Corners Sections of APS, AAPT, and Zones 13 and 16 of SPS, NSHP and SNBP, El Paso, Oct. 17, 2008, <http://meetings.aps.org/Meeting/TS4CF08/Event/92524>.
51. "Nuclear isoscaling", in II Jornada de Física y Matemáticas, Univ. Autónoma de Ciudad Juárez, Apr. 25, 2008.
52. "La enseñanza de la física en pre-escolar", talk presented at the "V Encuentro Estatal de Educación", organized by Dirección de Educación Elemental del Gobierno del Estado de Chihuahua, Ciudad Juarez, Mexico, 4/12/2003.
53. "Nuclear Reactions", talk presented at the Annual Meeting of the Zone 16 of the Society of Physics Students, University of Texas at El Paso, El Paso, Texas. Oct. 25-26, 2002.
54. Workshop "Computer Simulated Experiments for Modern Physics", Conference for the Advancement of Science teaching: CAST 2002, UTEP, Saturday, 9/11/2002.
55. Workshop "Computer Simulated Experiments for Modern Physics", Conference for the Advancement of Science teaching: CAST 2002, UTEP, Saturday, 9/11/2.
56. "Nuclear liquid-gas transformation", Plenary Talk. Meeting of the Texas Section of the American Physical Society, Rice University, Houston, Texas. Oct. 28-29, 2000.
57. "The caloric curve in collision", contributed talk, Meeting of the Texas Section of the American Physical Society, Rice University, Houston, Texas. Oct. 28-29, 2000.
58. "Computer Simulations for Modern Physics", Neat Networks '99 conference, held at the University of Texas at El Paso, El Paso, Texas, Apr. 29 to May 1, 1999.
59. "Nuclear Caloric Curve", contributed talk, Meeting of the Texas Section of the American Physical Society, in Austin, Texas. Oct. 28, 1999.
60. "Separable Potentials for the Hadronic Phase", contributed talk, Meeting of the Texas Section of the American Physical Society, in Denton, Texas. Oct. 10, 1997.
61. "Computer Simulations for Modern Physics", contributed talk, Meeting of the Texas Section of the American Physical Society, in Arlington, Texas. Oct. 11, 1996.
62. "Preferred Decays in Nuclear Fragmentation", contributed talk, Meeting of the Texas Section of the American Physical Society, in Arlington, Texas. Oct. 11, 1996.

COLLOQUIA AND SEMINARS

63. "The new nuclear physics: nuclei with excess neutrons", Univ. California Riverside, 5/12/2011.

64. "Recruitment and retention of Hispanics in physics", California State University Fresno, Mar. 18, 2011.
65. "Métodos matemáticos para datos electorales", Centro Universitario de Ciencias Exactas e Ingenierías, Universidad de Guadalajara, Guadalajara, México, Mar. 13, 2011.
66. "Métodos matemáticos para datos electorales", Centro Universitario de Ciencias Económico Administrativas, Universidad de Guadalajara, Guadalajara, México, Mar. 12, 2011.
67. "Physics and art", California State University San Marcos, San Marcos, CA, 9/30/2010. www.csusm.edu/news/articles/nr_FrontSciFall2010.html.
68. "Origin of Nuclear isoscaling", Univ. Autónoma de Colima, Colima, Colima, México, May 7, 2010.
69. "The new nuclear physics", Univ. North Carolina Wilmington, 4/9/2010. <http://appserv02.uncw.edu/news/atuncw/annview.aspx?id=5927>.
70. "Physics and art", Univ. North Carolina Wilmington, 4/9/2010, <http://appserv02.uncw.edu/news/atuncw/annview.aspx?id=5927>.
71. "Fraude Electoral", Physics Department, Universidad Autónoma de Zacatecas, Zacatecas, México, Mar 7, 2010.
72. "2006, Electoral Fraud?", University of Texas at Brownsville, Brownsville, TX, Feb. 19, 2010.
73. "The new nuclear physics and isoscaling", University of Texas at Brownsville, Brownsville, TX, Feb. 19, 2010. <http://www.phys.utb.edu/seminars/schedule.shtml>.
74. Lopez, J. A., Book Presentation in Chile, "Scientific studies of electoral data," Facultas de Ciencias Jurídicas y Sociales, Universidad de Concepción, Concepción, Chile. (December 17, 2009).
75. "2006, Electoral Fraud?", University of Texas at El Paso, El Paso, TX, Oct. 29, 2009.
76. Lopez, J. A., Book Presentation in Aguascalientes, México, "Scientific studies of electoral data", Facultad de Ciencias Políticas, Universidad Autónoma de Aguascalientes, Aguascalientes. México. (August 20, 2009).
77. Lopez, J. A., Colloquium at Valparaiso, Chile, "The use of Peer Leaders in science teaching", Universidad de Playa Ancha, Valparaiso, Chile. (August 20, 2009).
78. Lopez, J. A., Book Presentation in Cd. Juárez, México, "Scientific studies of electoral data", Facultad de Ciencias Políticas, Universidad Autónoma de Cd. Juárez, Cd. Juárez, México. (June 17, 2009).
79. Lopez, J. A., Colloquium at Texas Tech, "Physics and Art," Texas Tech, Lubbock, Texas. (May 2009).
80. "Física Electoral", delivered at the "Semana de Ingeniería", Universidad Autónoma de Ciudad Juárez, 9/25/2008.
81. "Nuclear isoscaling", Universidad Autónoma de Colima, Colima, Colima, México, May 7, 2008.
82. "Origin of isoscaling ", Michigan State University, Jan. 30, 2008.
83. " Origin of isoscaling ", Argonne National Lab., Argonne, Illinois, Jan. 28, 2008.
84. "Physics at UTEP", Bradley University, Peoria, Il, Nov. 17, 2007.
85. "Physics and Art", Bradley University, Peoria, Il, Nov. 16, 2007.
86. "Physics and Art", Southern Illinois University, Nov. 14, 2007.
87. "Physics at UTEP", Universidad Autónoma de Sinaloa, Culiacán, Sinaloa, Mexico, May 29, 2007.
88. "Física Nuclear ", delivered at the "Semana de Ingeniería", Universidad Autónoma de Ciudad Juárez, 9/19/2006.
89. "Nuclear Isoscaling", Universidad Autónoma de Colima, Colima, México, 5/3/2006.
90. "Physics at UTEP", Universidad Autónoma de Baja California, Ensenada, Mexico, 21/Nov/2005.
91. "Los Errores de Einstein", Universidad Autonoma de Colima, Colima, Mexico, 3/May/2005.
92. "Physics at UTEP", Universidad Autónoma de Sonora, Hermosillo, Sonora, Mexico, 23/Nov/2004.
93. "A classical MS model of heavy ion reactions ", Arkansas State University, Jonesboro, AR, Oct. 7, 2004.
94. "UTEP's Radio telescope ", Universidad Autonoma de Colima, Colima, Mexico, 4/15/2004.
95. "A model for nuclear matter ", Universidad Autonoma de Colima, Colima, Mexico, 7/10/2003.
96. "Termodinámica de Microsistemas", delivered at the "7a Semana de Ingeniería", Univ. Aut. Cd. Juárez, 9/17/2002.
97. "Critical exponents of nuclear fragmentation", Instituto de Fisica, Univ. Nac. Aut. Mexico, Mexico, 6/30/2002.
98. "Critical exponents of nuclear fragmentation", Inst. Nacional de Investigaciones Nucleares, Mexico 7/2/2002.
99. "Criticality in nuclear fragmentation ", Universidad de La República, Montevideo, Uruguay, Mar. 8, 2001.
100. "Nuclear liquid-gas transformation", Department of Physics, Western Kentucky University, Nov. 21, 2000.
101. "Search of gravity waves", Physics Dept., St. Edwards University, Austin, Texas, 10/5/2000.
102. "Aztec astronomy", School of Natural Sciences., St. Edwards University, Austin, Texas, 10/5/2000.
103. "Background radiation", delivered at the 6ta Semana de Ingeniería, Univ. Autónoma de Ciudad Juárez, 9/21/2000.
104. "Criticality in nuclear fragmentation", Instituto Nacional de Investigaciones Nucleares, Salazar, Mexico 8/24/2000.
105. " Criticality in nuclear fragmentation", Instituto de Fisica, Univ. Nac. Aut. Mexico, Mexico, 8/23/2000.
106. "Physics Education", Physics Dept., Southern Illinois University, Carbondale, Illinois, October 1, 1999.
107. "Ultrasound diagnostics for airplane fuselages", Univ. Aut. de Cd. Juarez, Cd. Juarez, Mexico, 9/24/1999.
108. "Computer simulations", to be delivered at Univ. Aut. Metropolitana, Mexico, November 23, 1999.
109. "Search of Gravity Waves", Physics Dept., University of Texas at Brownsville, Brownsville, Texas, 4/8/99.

110. "Caloric Curve in Nuclear Fragmentation", Universidad de Buenos Aires, Buenos Aires, Argentina, July, 1999.
111. "Gravity Waves", Physics Dept., Texas Tech University, Lubbock, Texas, Nov. 1998.
112. "Simulaciones de Fisica Moderna", 50th Anniversary, Inst. Tecnológico de Durango, 5/14/1998, Durango, Mexico.
113. "Nuclear Fragmentation", Physics Dept., Texas Christian University, Forth Worth, Texas, 4/16/97.
114. "Probability Landscapes in Nuclear Fragmentation", Tandem Accelerator, Buenos Aires, Argentina, 6/18/ 1997.
115. "Phase Changes in Nuclear Fragmentation", Universidad Nacional de Buenos Aires, Bogota, Colombia, 9/12/1997.
116. "Phase Diagram of Nuclear Matter", Physics Dept., University of Maryland, College Park, Maryland, 3/10/1996.
117. "Math Phys", Club Zero, Math. Department, Univ. Texas at El Paso, April 5, 1996.
118. "Computer simulations", delivered at Universidad Autónoma Metropolitana, Mexico City, Mexico, 11/23/1999.
119. "Exploding stars", Physics Department, Moorehead State University, Moorehead, Minnesota, Mar. 27-29, 1995.
120. "Mapping the nuclear phase diagram", Physics Dept., Hampton University, Hampton, Virginia, December 12, 1995.
121. "Nuclear fragmentation", Physics Dept., Sam Houston State University, 10/94, Huntsville, TX.
122. "Pre-transition particle emission in nuclear fragmentation", National Superconducting Cyclotron Lab., Michigan State University, East Lansing, Michigan, 6/1994.
123. "TST treatment of nuclear fragmentation", Physics Dept., Vanderbilt University, 2/94, Nashville, Tennessee.
124. "TST treatment of nuclear fragmentation", Physics Dept., Tennessee Tech., 2/94, Cookeville, Tennessee.
125. "Nuclear fragmentation", Physics Dept., Sam Houston State University, Huntsville, Texas, October, 1994.
126. "Self-similar expansion of nuclei", Nuclear Theory Group, Lawrence Berkeley Laboratory, 7/1993, Berkeley, CA.
127. "Nuclear fragmentation", Universidad Autonoma de Nuevo Leon, 5/1993, Monterrey, Mexico.
128. "Breakup of small nuclear projectiles", Physics Department, New Mexico State Univ., 4/1993, Las Cruces, NM.
129. "Breakup of small nuclei", Instituto de Fisica, Universidad Autonoma de Mexico, May 26, 1992, Mexico City.
130. "Hot zone formation in heavy ion collisions", Cyclotron Inst., Texas A&M Univ., 11/1991, College Station, TX.
131. "Transition state treatment of nuclear fragmentation", New Mexico State Univ., Feb. 14, 1991, Las Cruces, NM.
132. "Nuclear fragmentation", Physics Department, University of Texas at El Paso, March, 1990, El Paso, Texas.
133. "Nuclear multifragmentation", California State University - Hayward, February, 1989, Hayward, California.
134. "Nuclear multifragmentation", California Polytechnic State Univ., February, 1989, San Luis Obispo, California.
135. "Nuclear multifragmentation", Physics Department, California State University - San Jose, 3/1989, San Jose, CA.
136. "Recent developments in nuclear multifragmentation", Texas A&M University, April 1989, College Station, Texas.
137. "Nuclear Molecular Calculation for Disassembly of Nuclear Matter", Zentralinstitut für Kernforschung, October, 1986, Rossendorf, Former East Germany.
138. "Quark Gluon Plasma in Linear Response Theory", Technische Universität München, May 1986, Munich, Germany.
139. "Relativistic Heavy Ion Collisions", Università degli Studi di Milano, November 1985, Milano, Italy.
140. "The Quark Gluon Plasma", Physics Department, University of Texas at El Paso, February 1985, El Paso, Texas.

ORGANIZATION OF MEETINGS

Meetings organized

1. The IV Latin-American Symposium on Nuclear Physics, with Efraín Chávez and Marcos Moshinsky, held at El Colegio Nacional, Mexico City, Sept. 24-28, 2001. 112 attendants from 20 countries. Funded by NSF, Trieste (Italy), Conacyt (Mexico), Soc. Mex. Fis. (Mexico).
2. "From K-16 Partnership to the Classroom: Workshop on Planning and Implementing Field-Base Courses in Math and Science", with Arturo Pacheco, Tom Brady, Sally Blake, Mourat Tchoshanov, Art Duval, Steve Sanchez, Connie Kubo Della-Piana, Erandi Perez, UTEP, El Paso, Aug. 2001.
3. Meeting of the National Society of Hispanic Physicists, Portland, Oregon, October 7-10, 1999.
4. Member of Organizing Committee of the Texas Leadership Institute (TexLI) for K-8 Science Education, a program of the Teacher-Scientist Alliance Institute of the American Physical Society, Austin, Texas, 4/ 30 to 5/5, 1999.
5. Joint Meeting of the Texas Sections of the American Physical Society, The American Association of Physics Teachers, and The Society of Physics Students. Held at UTEP from Oct. 15-17, 1998. Attendance 204 plus many unregistered local high school teachers.
6. I Semana de Ciencia Y Tecnología, by Sociedad Mexicana para el Progreso de la Ciencia y la Tecnología., at the Universidad Autónoma de Ciudad Juárez, Apr. 20-24, 1998, Juárez, México.
7. Corporate Scholars Workshop, Committee on Minorities of the American Physical Society, 10/1-3/1993, Hampton, VA.

Chairmanship

1. Chair, Session [H5 High Energy Physics: Experimental](#), 2008 Joint Fall Meeting of the Texas and Four Corners Sections of APS, AAPT, and Zones 13 and 16 of SPS, and the Societies of Hispanic & Black Physicists, held at The University of Texas at El Paso, Oct. 18, 2008.
2. Chair, Session "Nuclear Thermodynamics and Dynamics", VI Latin American Symposium on Nuclear Physics, Iguazú, Argentina, 10/6/2005. http://www.tandar.cnea.gov.ar/misc/SLAFNAP6.php?action=show_section§ion=Main.
3. Chair, Friday Morning session, V Latin American Symposium on Nuclear Physics, Santos, Brazil, Sept. 5, 2003, <http://www.sbf1.if.usp.br/eventos/rtfnb/xxvii/>.
4. Chair, session A3, meeting of the Texas Section of the American Physical Society, held at University of Texas at Brownsville, Brownsville, Texas, Oct. 10-12, 2002.
5. Chair, High Energy Physics Session, meeting of the Texas Section of the American Physical Society, held at Stephen F. Austin State University, Nacogdoches, Texas, Mar. 7-9, 2002.
6. Chair, plenary session, meeting of the Texas Section of the American Physical Society, held at Texas Christian University, Forth Worth, Texas, Oct., 2001.
7. Chair of Session 3, XXIV Symposium on Nuclear Physics", Taxco, Mexico, Jan. 3-6, 2001.
8. Chair, nuclear physics II session, XLIV Annual Meeting of the Mexican Soc. Physics, Morelia, Mexico, 10/ 2000.
9. Chair, "Session 2: Nuclear Structure", Third Latin-American Workshop on Nuclear and Heavy Ion Physics, Universidad Nacional de Colombia, San Andrés, Colombia, Sept. 13, 1999.
10. Chair, "IV LWNHIP and Beyond", Third Latin-American Workshop on Nuclear and Heavy Ion Physics, Universidad Nacional de Colombia, San Andrés, Colombia, Sept. 17, 1999.
11. Chair, session "Physics in Mexico", Meeting of the Texas Section of the American Physical Society, to be held at UTEP, October 15-17, 1998.
12. Chair, Session CC on High Energy/Particle Physics II, Meeting of the Texas Section of the American Physical Society, Denton, Texas, Oct. 10, 1997.
13. Chair, Invited Symposium on Nuclear Physics, Joint Meeting of the Canadian-American and Mexican Physics Societies, Washington, D.C., in April, 18-21, 1997.
14. Chair, Invited Symposium on "Physics of Reduced Dimensionality", Meeting of The American Physical Society, San Jose, CA, Mar. 21, 1995.
15. Chair of Symposium, Meeting of the American Physical Society, Crystal City, VA, 4/94.
16. Chair, Invited Symposium "Researchers at the Leading Edge", Meeting of the American Physical Society, Crystal City, VA, 4/94.
17. Chair of Symposium, Meeting of the American Physical Society, Pittsburgh, PA, 3/94.

Advisory Boards

1. Member, International Advisory Committee, Symposium on Nuclear Physics, Cocoyoc, Mexico, 1995 and from 2001 to date. <http://www.smf.mx/~dfn-smf/Cocoyoc2011/announcements.php.html>
2. Member, External Advisory Board, Center for Gravitational Wave Astronomy, University of Texas at Brownsville, Mar. 1, 2011.
3. Member, Int. Advisory Committee, Symposium on Radiation Physics, 2003 to date, www.smf.mx/~fr-smf/.
4. Member, International Advisory Committee, Pan-American Advanced Study Institute on Rare Nuclear Isotopes, held in Joao Pessoa, Brazil, October 2010. <http://meetings.nscl.msu.edu/pasi2010/>
5. Member, Advisory Board, San Diego Science Festival, San Diego, 2009.
6. Member, International Advisory Committee, Latin-American Symposium on Nuclear Physics, 1997, 1999, 2003, 2005, 2009. <http://servicios3.ing.uchile.cl/slafna/index.php>.
7. Member, Advisory Board of book "Early Childhood Education and Socialization: Developmental Applications and Methodologies", Eds. S. Blake and S. Taylor, IGI Global Publishing, Hershey PA, 2009.
8. Member, Advisory Board, Scientific Partnership for International Research on Inquiry Thinking (SPIRIT),
9. 008-2010, <http://inquirythinking.googlepages.com/>.
10. Member, Cuerpo Consultivo Internacional, Revista de Orientación Educacional, Universidad de Playa Ancha, Valparaíso, Chile, from 2008 to date, <http://educacion.upla.cl/orientacion/revistaorientacion.htm>.
11. Member, International Advisory Committee, Varenna Conference on Nuclear Reaction Mechanisms, 6/ 9-13/2003.
12. Member of The International Scientific Advisory Committee, Pan-American Advanced Studies Institute on Computational Materials Science, Pontificia Universidad Católica de Chile, Santiago, Chile, 1/8-19/2001 www.iitap.iastate.edu/iitap/pasi.html.

13. Member, Board of Advisors, Project ASTRO "El universo en sus manos", Astronomical Soc. Pacific, 4/2001 – 4/2002
14. Member, Organizing Committee of the Texas Leadership Institute (TexLI) for K-8 Science Education, a program of the Teacher-Scientist Alliance Institute of the American Physical Society, Austin, Texas, Apr. 30 to May 5, 1999.
15. Member, Texas Leadership Institute (TexLI) for K-8 Science Education, 1998 (Austin), 1999 (Austin).
16. Member, Educational Task Force, NASA's Office of Space Science, 1995 (Washington, D.C.), 1996 (Annapolis, VA), 1996 (Las Cruces).

DEVELOPMENT OF RESEARCH FACILITIES

1. Acquisition of portable XRF, Fall 2008.
2. Acquisition of 150 MeV electron accelerator, Fall 2007, from Texas Christian, with Miguel Castro-Colin.
3. Reconstruction of the Physics Computer Laboratory, acquisition of twelve new computers, with R. Ravelo, Spring 2006
4. Reconstruction of the Advanced Laboratory, with M. Castro Colin, Fall 2005 – date
5. Radio Astronomy. Construction of a radio telescope for PHYS 3243, with Luis Basurto, spring 2005 to date.
6. Reconstruction of a Laboratory For Surface Studies, with W. Durrer, 2002-2003, funded with \$119,000 from DOD grant.
7. PIXE with Alpha from Americium, development of experimental setup with UG students Mario Borunda and Manuel Antonio Ramos, Fall 2001 and Fall 2003.
8. X-ray detector, a multichannel analyzer and power supply, 1997.
9. Computational Physics. Equipment used in research in computational physics acquired with funding from many sources and donations. Equipment includes:
 - IBM workstation RS\600 model 370, obtained with funding from UTEP's College of Science. 1995.
 - IBM Donation composed of an IBM workstation RS\600 model 320 and four X-terminals, 1995.
 - Four X-Terminals, added to IBM RS/6000 system, from the Jet Propulsion Laboratory, 1994.
 - Power Macintosh 7600/132, obtained with funding from UTEP's MIE. Fall 1996.
 - Six Sun workstations (model LC II), NASA Network Resource and Training Sites grant, 1996.
 - IBM F50 workstation, (cost over \$24,000), NSF funding, 5/1997.
 - Sparc Sun workstations (model Ultra 5), with funding from the NASA Network Resource and Training grant, 1997.
 - 3 IBM P43 workstations, transferred from UTEP UGLC's UNIX lab to physics, 9/99.