

Curriculum Vitae

Carlos E. M. Wagner

January, 2013

1 Current Position

Head of the Theory Group,
High Energy Physics Division,
Argonne National Laboratory.

Professor, Physics Department,
Enrico Fermi Institute and
Kavli Institute for Cosmological Physics,
University of Chicago.

2 Biographical Data

Name: Carlos E. M. Wagner

Sex: Male

Marital Status: Married

Citizenship: Argentine and German

Permanent Residence: U.S.A. (Green Card).

Address:

High Energy Physics Division,
Argonne National Laboratory,
9700 South Cass Ave, Argonne, IL 60439-4803;

Enrico Fermi Institute,
University of Chicago,
5640 Ellis, Chicago, IL 60637.

Tel: (630) 252 - 3759 (Argonne)

(773) 702 - 0767 (Univ. of Chicago)

Fax: (630) 252 - 5047

E-mail: cwagner@hep.anl.gov,

cwagner@theory.uchicago.edu

3 Education

Licenciatura en Fisica (Diploma in Physics): **Dec. 1985**, Instituto Balseiro, Universidad Nacional de Cuyo, S. C. de Bariloche, Argentina.

Graduate Studies (High Energy Physics): **Feb. 1986 - Sep. 1987**, Centro Atomico Bariloche, S.C. de Bariloche, Argentina and **Oct. 1987 - July 1989**, DESY, Hamburg, Fed. Rep. Germany.

Ph. D. (High Energy Physics): **July 1989**, University of Hamburg, Hamburg, Fed. Rep. of Germany.

Language Skill: English, French, German and Spanish.

4 Awards

2008: Fellow of the American Physical Society

1995 - 1996: European Community Fellowship - CERN, Geneva, Switzerland.

1993 - 1995: John Stewart Bell Fellowship - CERN, Geneva, Switzerland.

1986 - 1987: Graduate Scholarship - Consejo Nacional de Investigacion, Argentina.

1982 - 1985: Undergraduate Scholarship - Centro Atomico Bariloche, Argentina.

5 Research Activities

Jan. 1986 - Sept. 1987: Research Assistant in Particle Theory, advisor Prof. Luis Masperi, at the Centro Atomico Bariloche, S.C. de Bariloche, Argentina.

Oct. 1987 - July 1989: Research Assistant in Particle Theory, advisor Prof. Istvan Montvay, at the DESY Theory Group, Fed. Rep. of Germany.

Sep. 1989 - Aug. 1991: Postdoctoral Research Associate at the Physics Department, Purdue University, West Lafayette IN, U. S. A. (J1 Visa).

Sep. 1991 - Sep. 1993: Postdoctoral Research Associate at the Max Planck Institut für Physik - Werner Heisenberg Institut, München, Fed. Rep. of Germany.

Oct. 1993 - Mar. 1996: Postdoctoral Research Associate at CERN, Geneva, Switzerland.

Mar. 1996 - May 1999: Staff Member at CERN, Geneva, Switzerland.

May 1999 - Present: Physicist at Argonne National Laboratory, Argonne, IL, U.S.A.

May 1999 - March 2005: Part-time Associate Professor of Physics at the Enrico Fermi Institute, University of Chicago, Chicago, IL, U.S.A.

March 2005 - Present: Professor of Physics at the Enrico Fermi Institute, University of Chicago, Chicago, IL, U.S.A.

August 2006 - Present: Senior Member, Kavli Institute for Cosmological Physics, University of Chicago, Chicago, IL, U.S.A.

6 Teaching Activities

Fall 1981- Spring 1982: Teaching Assistantship at Instituto Tecnológico Buenos Aires, Buenos Aires, Argentina.

Fall 1986 - Fall 1987: Lecturer for courses on Quantum Mechanics and Electrodynamics at University of Comahue, Bariloche, Argentina.

October 1993: Lecturer at the Karlsruhe Autumn School, Sand, Fed. Rep. of Germany, for a course on Introduction to Supersymmetry

Mar. 1996 Lecturer on the International School on Fundamental Physics, Gandia, Spain, for a course on Supersymmetric Phenomenology.

June 1998 Lecturer at the Advanced School on Cosmology and Particle Physics, Peñíscola, Spain, for lectures on Baryogenesis and Phase Transitions.

August 1998 Lecturer at the CERN Summer School, CERN, Switzerland, for lectures on Physics Beyond the Standard Model (to take place on August 7,10 and 11).

January–March 2000 Lecturer at the University of Chicago, for a graduate course on Supersymmetry.

January–March 2001 Lecturer at the University of Chicago, for a graduate course on Supersymmetry.

March–May 2002 Lecturer at the University of Chicago, for a graduate course on Advanced Classical Electrodynamics.

June 2002 Lecturer at TASI 2002, for a course on the Introduction to Supersymmetry.

April 2003–June 2003 Lecturer at the University of Chicago, for a graduate course on Advanced Classical Electrodynamics.

April 2004–June 2004 Lecturer at the University of Chicago, for a graduate course on Introduction to Cosmology.

July 2004 Lecturer at the VI Giambiagi School on Particle Physics at the University of Buenos Aires, Buenos Aires, on Introduction to Supersymmetry.

March 2005–June 2005 Lecturer at the University of Chicago, for a graduate course on Advanced Classical Electrodynamics.

July 2005 Lecturer at the Les Houches School on Particle Physics, Les Houches, France, on Introduction to Supersymmetry.

March 2006–June 2006 Lecturer at the University of Chicago, for a graduate course on Advanced Quantum Field Theory.

September 2006–December 2006 Lecturer at the University of Chicago, for a graduate course on Supersymmetry

October 2006 Lecturer at the PASI 2006 School in Puerto Vallarta, Mexico, on Introduction to Supersymmetry.

February 2007 Lecturer at the CERN Latinamerican School on Particle Physics, in Renaca, Chile, on Beyond the Standard Model Physics

March 2008–June 2008 Lecturer at the University of Chicago, for a graduate course on Introduction to Cosmology

March 2009–June 2009 Lecturer at the University of Chicago. Graduate course on Particle Physics.

September 2009 Lecturer at the Parma School for Theoretical Physics, for a graduate course on Supersymmetry.

March 2010–June 2010 Lecturer at the University of Chicago, for a graduate course on Physics at the LHC.

August 2010 Lecturer at the Pre-SUSY 2010 school, on Electroweak Baryogenesis.

September 2010–October 2010 Lecturer at the University of Buenos Aires, for a graduate course on Physics Beyond the Standard Model.

March 2011–June 2011 Lecturer at the University of Chicago, for a graduate course on Advanced Quantum Field Theory.

March 2012–June 2012 Lecturer at the University of Chicago, for a graduate course on Introduction to Particle Physics.

7 Supervision of Graduate Students

Advisor of **David E. Morrissey**, a graduate student at the University of Chicago and an Argonne National Laboratory graduate student fellow.

Graduation date: August 2005.

Present position: Faculty position, Triumph Laboratory, Canada.

Advisor of **Arjun Menon**, a graduate student at the University of Chicago.

Graduation date: June 2007.

Present position: Postdoctoral Research Associate, Oregon University.

Advisor of **Anibal Medina**, a graduate student at the University of Chicago and an Argonne National Laboratory graduate student fellow.

Graduation date: June 2008.

Present position: Postdoctoral Research Associate, University of Melbourne.

Advisor of **Jing Shu**, a graduate student at the University of Chicago.

Graduation date: June 2008.

Current Position: Associate Professor, ITEP, Beijing, China.

Advisor of **Nausheen Shah**, a graduate student at the University of Chicago.

Graduation date: June 2009.

Current Position: Postdoctoral Research Associate, University of Michigan

Advisor of **Patrick Draper**, a graduate student at the University of Chicago.

Graduation date: April 2011

Current Position: Postdoctoral Research Associate, University of California, Santa Cruz.

Advisor of **Ran Huo**, a graduate student at the University of Chicago.

Expected Graduation date: May 2013

Future Position: Postdoctoral Research Associate, IPMU, Tokyo, Japan.

8 Participation in Schools and Workshops

July 1986 - 3rd Argentine Symposium of Particles and Field Theory, Centro Atomico Bariloche, S.C. de Bariloche, Argentina.

Aug. 1986 - French Latin-American Colloquium of Theoretical Physics, Buenos Aires, Argentina.

Oct. 1986 - Argentine Physical Society Meeting, La Cumbre, Cordoba, Argentina.

Feb. 1987 - Jorge Andres Swieca Summer School of Particles and Field Theory, Sao Paulo, Brazil.

July. 1987 - Latin-American School of Physics, La Plata, Argentina.

Oct. 1987 - DESY Theory Workshop, DESY, Hamburg, Fed. Rep. of Germany.

Oct. 1988 - DESY Theory Workshop, DESY, Hamburg, Fed. Rep. of Germany.

Oct. 1990 - "Beyond the Standard Model II", University of Oklahoma, U.S.A.

March 1991 - PASCOS 91, Northeastern Univ., Boston MA, U.S.A.

July 1991 - Aspen Summer Programm, Aspen CO, U.S.A.

Aug. 1991 - Santa Fe Workshop, "Physics of the Standard Model and Beyond", Santa Fe NM, U.S.A.

Aug. 1991 - The Vancouver Meeting: Particles and Fields'91, Vancouver, B.C., Canada.

Jan 1992 - V Argentine Symposium of Particles and Field Theory, Centro Atomico Bariloche, S.C. de Bariloche, Argentina.

July 1992 - Aspen Summer Program: "Workshop on Neutrino Physics", Aspen CO, U.S.A.

Sep.-Oct. 1992 - INFN ELOISATRON Project 23rd Workshop: "Properties of SUSY Particles", Erice, Italy.

March 1993 - Rencontres de Moriond on "Electroweak Interactions and Unified Theories", Les Arcs, France.

May 1993 - XVI Kazimierz Meeting on Particle Physics: "New Physics with New Experiments", Kazimierz, Poland.

July 1993 - Institut d'Ete de Physique des Particules, Orsay and Saclay, France.

July 1993 - International Europhysics Conference on High Energy Physics, Marseille, France.

February 1994 - Workshop on Yukawa Couplings and the Origin of Mass, University of Florida, Gainesville, U.S.A.

May 1994 - SUSY 94 Workshop, Ann Arbor, MI, U.S.A.

August 1994 - Aspen Summer Program: "Workshop on Supersymmetry from the TeV to the Planck scale", Aspen CO, U.S.A.

November-December 1994 - LEP2 Worskhop, "Higgs Working Group", CERN, Geneva, Switzerland.

February 1995 - 3rd Metting of the LEP2 Higgs Working Group, Munich, Germany.

March 1995 -XXXth Rencontres de Moriond on "Electroweak Interactions and Unified Theories", Les Arcs, France.

April 1995 - European Community Network Meeting on Electroweak Interactions, Warsaw, Poland.

May 1995 - 4th Meeting of the Higgs Working Group of the LEP2 Workshop, CERN,

Geneva, Switzerland **and** SUSY-95: International Workshop on Supersymmetry and Unification of Fundamental Interactions, Palaiseau, France.

June 1995 - 5th Meeting of the Higgs Working Group of the LEP2 Workshop, **and** - 2nd General Meeting of the LEP2 Workshop, CERN, Geneva, Switzerland.

July 1995 - 6th Meeting of the Higgs Working Group of the LEP2 Workshop, Orsay, France

July–Aug. 1995 International Europhysics Conference on High Energy Physics, Brussels, Belgium.

Sept. 1995 Summer Institute on “Signals of Unified Theories”, Laboratori Nazionali del Gran Sasso, Italy **and** - 7th Meeting of the Higgs Working Group of the LEP2 Workshop, CERN, Geneva, Switzerland.

Sept. 1995 5th Meeting of the New Particles Working Group of the LEP2 Workshop, CERN, Geneva.

Nov. 1995 6th Meeting of the New Particles Working Group of the LEP2 Workshop, CERN, Geneva.

May 1996 SUSY 96, College Park, Maryland, U.S.A.

July 1996 Workshop on Supersymmetry Phenomenology, Aspen, Colorado, U.S.A.

October 1996 LHC Workshop, CERN, Geneva, Switzerland

March 1997 Phenomenology Workshop, Madison, Wisconsin, U.S.A.

April 1997 Third Warsaw Conference “Physics from the Planck scale to the weak scale”, Warsaw, Poland

May 1997 International Conference on Supersymmetry, SUSY97, Philadelphia, Pennsylvania, U.S.A.

August 1997 Aspen Workshop, “New Physics at LEP and the Tevatron”, Aspen, Colorado, U.S.A.

November 1997 Workshop on Physics at muon colliders, Fermilab, Batavia, U.S.A.

November 1997 Triangle Meeting on Particle Physics, Viena, Austria.

March 1998 First Organizational Meeting of the Higgs Working Group for the SUSY/HIGGS Tevatron Run II Workshop, Fermilab, Batavia, IL, U.S.A.

May 1998 First General Meeting of the SUSY/HIGGS Tevatron Run II Workshop, Fermilab, Batavia, IL, U.S.A.

May 1998 First European Meeting “From the Weak Scale to the Planck Scale”, Kazimierz, Poland.

June 1998 Meeting of the LEP Higgs Working Group, CERN, Geneva, Switzerland.

July 1998 SUSY 98, Oxford Univ., Oxford, England.

October 1998 DESY Theory Workshop, DESY, Hamburg, Germany.

November 1998 Final General Meeting of the SUSY/HIGGS Tevatron Run II Workshop,

Fermilab, Batavia, IL, U.S.A.

March 1999. IFT Workshop on Higgs and Supersymmetry: Search and Discovery, Gainesville, Florida, U.S.A.

March 1999 Recontres de Moriond, Electroweak Session, Les Arcs, France.

March 1999 Meeting on Supersymmetry Phenomenology, Lyon, France.

April 1999 *Second European Meeting From the Planck Scale to the Electroweak Scale*, Bad Honnef, Germany.

June 1999 SUSY99, Fermilab, Batavia, IL. U.S.A.

July 1999 Workshop on Phenomenology of Supersymmetry and Superbranes, Aspen, CO, U.S.A.

October 1999 Workshop on New Theoretical Developments for Higgs Searches at LEP, CERN, Geneva, Switzerland.

December 1999 Pascos Conference, Lake Tahoe, CA, U.S.A.

January 2000 Aspen Winter Conference, Aspen, CO, U.S.A.

March 2000 Recontres de Moriond, QCD session, Les Arcs, France.

May 2000 Theory Institute on Supersymmetry and Higgs Physics, Argonne National Laboratory, Argonne, IL, U.S.A.

July 2000 SUSY 2000, CERN, Geneva, Switzerland

August 2000 DPF Meeting, Columbus, OH, U.S.A.

August 2000 Escuela de Fisica de Particulas y Campos, Metepec, Mexico.

August 2000 Aspen Workshop on New Physics at the Weak Scale and Beyond, Aspen, CO, U.S.A.

September 2000 RadCor Conference, Carmel, CA, U.S.A.

February 2001 Workshop on Physics in Extra Dimensions, Warsaw, Poland, February 14–17, 2001.

March 2001 Workshop on Physics at Photon Colliders, Fermilab, Batavia, IL, March 14–17, 2001.

March 2001 Higgs and Supersymmetry, Orsay, France, March 19–23, 2001.

April 2001 Workshop on Cosmology in Supersymmetry and String Theory, Heidelberg, Germany, April 4–7, 2001.

May 2001 Pheno 2001 Conference, Madison, Wisconsin, U.S.A.

May 2001 Workshop on Recent Developments on Higgs Physics, Fermilab, IL, U.S.A.

June 2001 Theory Institute on Supersymmetry and Extra Dimensions, Argonne National Laboratory, June 18–30, 2001.

January 2002 Workshop on Physics at Linear Colliders, Chicago, January 2002.

January 2002 WIN02 Conference, Chirstchurch, New Zealand, January 21–27, 2002.

February 2002 Aspen Winter Conference, Aspen, CO, February 3–9, 2002.

May 2002 Miniworkshop on Physics at the Tevatron, Fermilab, May 16, 2002.

TASI 2002 TASI Lecture Series, Boulder, CO, June 4–10, 2002.

June 2002 SUSY 2002 Conference, DESY, Hamburg, June 17–23, 2002.

July 2002 Aspen Summer Conference, Aspen, CO, July 15–August 8, 2002.

September 2002 Theory Institute on Higgs Physics, Supersymmetry and Extra Dimensions, Argonne National Laboratory, September 9–13, 2002.

September 2002 Cosmo02 Conference, Chicago, IL, September 18–22, 2002.

October 2002 Neutrino Physics Workshop, Fermilab, Batavia, IL, October 17–20, 2002.

December 2002 Workshop on physics at the LHC and at linear colliders, Fermilab, Batavia, IL, December 12–13, 2002.

January 2003 Aspen Winter Conference, Aspen, CO, January 19–25, 2003.

March 2003 LDRD Symposium, Argonne National Laboratory, March 14, 2003.

March 2003 Conference on the 20 years of Supergravity, March 17–20, 2003.

April 2003 Theory Meeting, Argonne National Laboratory, April 14, 2003.

June 2003 Supersymmetry 2003, Tucson, Arizona, June 5–9, 2003.

June 2003 Workshop on Baryogenesis, Michigan, Ann Arbor, June 10–27, 2003.

July 2003 Aspen Summer Conference, Aspen, CO, July 5–20, 2003.

August 2003 Lepton Photon Conference, Fermilab, Batavia, IL, August 11–16, 2003.

October 2003 Workshop on Brane Dynamics, Argonne National Laboratory, October 12–17, 2003.

February 2004 Aspen Winter Conference, Aspen, CO, February 1–7 2004.

March 2004 EFI Mini-Symposium on Tevatron Physics, Chicago, IL, March 5, 2004

March 2004 Moriond Winter Conference, La Thuile, Italy, March 21–28, 2004

May 2004 APS April 2004 Meeting, Denver, CO, May 1–4, 2004

May 2004 Argonne Theory Workshop on Higgs, Supersymmetry and Extra Dimensions, Argonne National Laboratory, May 24–28, 2004

June 2004 International Workshop on Supersymmetry 2004, Tsukuba, Japan, June 17–23, 2004.

July 2004 Fifth Latinamerican Symposium on High Energy Physics, Lima, Peru, July 12–16, 2004.

July 2004 VI Giambiagi School on Particle Physics, University of Buenos Aires, Buenos Aires, July 2004.

August 2004 SLAC Summer Institute, SLAC, CA, August 2004.

August 2004 Pascos 2004 Conference, Northeastern University, Boston, August 16–22, 2004.

November 2004 Workshop on Z' physics, Northwestern University, Evanston, IL, November 16, 2004.

December 2004 Miami 2004 Conference on Particle Physics, Key Biscane and Coral Gables, Florida, December 15–19, 2004.

February 2005 Aspen Winter Conference, Aspen, CO, February 13–19, 2005.

March 2005 Linear Collider Workshop, Stanford, March 18–22, 2005.

March 2005 Workshop on Non-Standard Higgs Bosons and CP-Violation, SLAC, March 24–25, 2005.

April 2005 Top Quark Symposium, Michigan, Ann Arbor, April 6–8, 2005.

May 2005 Argonne Theory Institute on Supersymmetry, Higgs Physics and Extra Dimensions, Argonne, IL, May 9–13, 2005.

June 2005 Kaon 2005 Conference, Northwestern University, Evanston, IL, June 13–17, 2005.

July 2005 Pre-SUSY2005 Meeting and SUSY2005 Conference, Durham, England, July 10–July 22, 2005.

August 2005 Aspen Workshop on Particle Physics, Aspen, CO, August 8–27, 2005.

August 2005 Snowmass ILC Workshop, Snowmass, CO, August 14–27, 2005.

September 2005 Bardeen Symposium, Fermilab, Batavia, IL, September 23–24, 2005.

October 2005 International Conference on Flavor Physics, National Central University, Taiwan, October 4–10, 2005.

October 2005 TeV4LHC Workshop, Fermilab, Batavia, IL, October 20–22, 2005.

March 2006 Monte Carlo Tools for Beyond the Standard Model Physics, Fermilab, March 20–21, 2006.

May 2006 CIPANP 2006, Rio Mar Beach, Puerto Rico, May 31–June 3, 2006.

June 2006 SUSY 06, 14th International Conference on Supersymmetry, Irvine, California, June 12–17, 2006.

July 2006 Santa Fe Workshop on “Particle Theory and the LHC”, July 23–29, 2006.

August 2006 Aspen Workshop on “Particle Theory in Anticipation of the LHC”, Aspen, CO, August 1–28, 2006.

September 2006 Pascos 2006, Columbus, OH, September 10–15, 2006.

October 2006 PASI 2006 School on Cosmology and Particle Physics, Puerto Vallarta, Mexico, October 23–November 1, 2006.

January 2007 Aspen Winter Conference, Aspen, CO, January 8–12, 2007.

January 2007 Gordy Kane Fest, Univ. of Michigan, Ann Arbor, January 19, 2007.

February 2007 CERN School on Particle Physics, Renaca, Chile, February 26–March 1, 2007.

March 2007 Moriond Conference, Electroweak Session, La Thuile, Italy, March 12–16, 2007.

April 2007 Workshop on the “Early Phase of the LHC and the ILC”, Fermilab, April 12–14, 2007

May 2007 Workshop on the “Hunt for Dark Matter”, Fermilab, May 10–12, 2007

June 2007 Argonne/University of Chicago Joint Collier Institute, Argonne, IL, June 4–5, 2007.

June 2007 Planck 2007 Conference, Warsaw, Poland, June 9–13, 2007

June 2007 ICTP School on Particle Physics, Trieste, Italy, June 20, 2007

June 2007 Beyond the Standard Model at the Dawn of the LHC era, Budapest, Hungary, June 25–29, 2007.

July 2007 Workshop on the LHC Cosmology Interplay, CERN, Switzerland, July 1–21, 2007.

October 2007 American Linear Collider Group Workshop. Fermilab, Illinois, October 22–26, 2007

November 2007 Workshop on Baryogenesis, University of Chicago, IL, November 7–9, 2008

December 2007 Workshop on the interplay of Flavor and Collider physics, CERN, Geneva, December 2–5, 2007

March 2008 Recontres de Moriond, Electroweak Session, La Thuile, Italy, March 1–8, 2008

March 2008 Recontres de Moriond, QCD Session, La Thuile, Italy, March 9–12, 2008.

March 2008 Workshop on LHC physics, KITP, Santa Barbara, March 23–30, 2008.

July 2008 KITPC Workshop on LHC physics, KITPC, Beijing, July 1–8 and 14–21, 2008.

July 2008 Weihai Forum on HEP–LHC physics, Weihai, July 9–14, 2008.

August 2008 ICHEP08, Philadelphia, August 1–6, 2008.

August 2008 Workshop on LHC Physics, Aspen, Colorado, July 23–August 16, 2008.

August 2008 SEWM08 Conference, Amsterdam, Netherlands, August 25–29, 2008

September 2008 Ayres Fest, HEP Division, Argonne, September 3, 2008.

September 2008 FNAL Workshop on Hadron Collider Physics, Fermilab, September 17–19, 2008.

October 2008 INT Workshop on LHC Physics, Seattle, Washington, October 1–3, 2008

November 2008 American Linear Collider Group Workshop, UIC, November 18–20, 2009.

February 2009 Workshop on Higgs Physics, Seattle, Washington, February 3–5, 2009.

February 2009 Aspen Winter Conference, Aspen, CO, February 8–12, 2009.

April 2009 JTI Workshop on Dynamical Symmetry Breaking, Argonne, IL, April 13–17, 2009.

May 2009 CIPANP Conference, San Diego, CA, May 25–31, 2009. **June 2009** SUSY09 Conference, Northeastern University, Boston, MA, June 5–10, 2009. **July–August 2009** Aspen Summer Conference on Physics at the LHC, Aspen, CO, July 5–August 8, 2009. **September 2009** Parma School on Theoretical High Energy Physics, Parma, Italy, September 1–4, 2009. **September 2009** Galileo Galilei Workshop, Florence, Italy, September 5–12, 2009. **September 2009** Higgs Days 09, Santander, Spain, September 12–15, 2009. **September 2009** Workshop on Lepton and Number Violation, Wisconsin, Madison, September 22, 2009. **December 2009** Workshop on the Interplay of Flavor and Collider Physics, CERN, December 14–16, 2009. **January 2010** Aspen Winter Conference, Aspen, CO, January 17–22, 2010. **May 2010** MCTP Higgs Symposium, Univ. of Michigan, Ann Arbor, May 12–15, 2010. **June 2010** Fermilab Users Meeting, Fermilab, June 3, 2010. **June–July 2010** Aspen Summer Workshop on Dark Matter, Aspen, CO, June 21–July 11, 2010. **July 2010** Recontres de Blois, Blois, France, July 15–20, 2010. **August 2010** PreSUSY school and SUSY 2010 Conference, University of Bonn, August 19–26, 2010. **September 2010** Meeting of the Argentine Physics Association, September 30–October 1, 2010, Malargue Argentina. **October 2010** String@ar meeting at IFAE, Universidad de Buenos Aires, October 7, 2010. **November 2010** PCTS Dark Matter Meeting, Princeton University, Nov. 15–16, 2010. **February 2011** Aspen Winter Conference, Aspen, February 12–18, 2011. **April 2011** Workshop on Higgs Physics, University of Washington, Seattle, April 25–28, 2011. **May 2011** Workshop on Electroweak Symmetry Breaking, University of Wisconsin, Madison, May 7–8, 2011. **June 2011** Argonne-Fermilab-University of Chicago collaboration meeting, Chicago, June 13, 2011. **June 2011** PLHC Conference, Perugia, Italy. **August 2011** TH LPCC, CERN, Switzerland, August 2011. **September 2011** BLV Meeting, Gatlinburg, September 20–25, 2011. **September 2011** SUSY 2011 Conference, Fermilab, Batavia, IL, August 28–September 2, 2011. **November 2011** GGI Conference, Florence, Italy, November 5–10, 2011.

December 2011 Intensity Frontier Workshop, Rockville, MD. **January 2012** Higgs Workshop, University of Pittsburgh, January 13–15, 2012.

April 2012 Higgs Workshop, University of Michigan, April 16–20, 2012.

April 2012 LBNE Reconfiguration Workshop. Fermilab, April 26th, 2012.

May 2012 Supersymmetry Workshop, Brookhaven National Laboratory, May 1–3, 2012.

May 2012 Planck Conference, Warsaw, May 28th–June 2nd, 2012.

June 2012 International Conference on New Frontiers in Physics, Crete, June 9–13, 2012.

September 2012 Higgs Days at Santander, September 16–20, 2012.

September 2012 Pilcher Fest, University of Chicago, September 22, 2012.

October 2012 Argonne Higgs Retreat, October 5, 2012.

October 2012 Higgs and the Next Discovery Workshop, Univ. of Pittsburgh, October 18–22, 2012.

December 2012 KITP Higgs Workshop, December 14–21, 2012.

9 Invited Talks

“Phenomenology of Low Energy Supergravity”:

3rd Argentine Symposium of Particles and Field Theory, Centro Atomico Bariloche, S.C. de Bariloche, Argentina, Aug. 1986.

“Effective Action Computation in Two Dimensional Gauge Theories”:

La Plata University, Argentina, Mar. 1987.

“Non Perturbative Aspects of Chiral Fermion Models”:

Purdue University, West Lafayette IN, U.S.A., October 1989.

“The Phase Structure of QED_3 with Fermion Self Couplings”

FERMILAB, Batavia IL, U.S.A., September 1990.

“Scaling Properties of QED_3 with Fermion Self Couplings”

in “Beyond the Standard Model II”, Norman OK, U.S.A., October 1990.

“The Minimal Supersymmetric Standard Model with Dynamical Electroweak Symmetry Breaking”

Montreal Univ., Montreal, Quebec, Canada, Feb. 1991 and

Univ, of Michigan, Ann Arbor MI, U.S.A., Feb. 1991.

Univ. of Pittsburgh, Pittsburgh PA, U.S.A., April 1991.

“The Top Condensate Model and Supersymmetry”

Santa Fe Workshop, “Physics of the Standard Model and Beyond”, Santa Fe NM, U.S.A,

Aug. 1991

“Dynamical Electroweak Symmetry Breaking, Supersymmetry and the Top Quark Mass”

The Vancouver Meeting: Particles and Fields’91, Vancouver, B.C., Canada, Aug. 1991

“The Standard Model with Dynamical Electroweak Symmetry Breaking”

Contribution to a Series of Seminars held at the Max-Planck-Institut für Physik, Munich, Germany, Nov. 1991, and

V Argentine Symposium of Particles and Field Theory, Centro Atomico Bariloche, S.C. de Bariloche, Argentina, Jan 1992.

“Top Condensate Models and Supersymmetric Phenomenology”

Physics Department, Technischen Universität München, Theoretische Physik, Garching, Germany, Nov. 1991, and

Erice Workshop, “Properties of Supersymmetric Particles”, Erice, Italy, Oct.-Nov. 1992.

“On the Finite Temperature Effective Potential in Scalar QED with N Flavors”

Brookhaven National Laboratory (BNL), Upton NY, U.S.A., August 1992.

“Phenomenological Implications of Light Gluinos”

XVI Kazimierz Meeting on Particle Physics: “New Physics with New Experiments”, Kasimierz, Poland, May 1993.

“Radiative Electroweak Symmetry Breaking and Coupling Unification”

Institut d’Ete de Physique des Particules, Orsay and Saclay, France, July 1993.

“On the Infrared Fixed Point for the Top Quark Mass”

CERN, Switzerland, November 1993.

“Electroweak Symmetry Breaking and the Top Quark Mass in Minimal Supersymmetric SO(10) Unification”

IFT Workshop on Yukawa Couplings and the Origin of Mass, University of Florida, Gainesville, February 1994.

“Phenomenological Constraints on Bottom - Top Yukawa Coupling Unification”

Univ. Autonoma de Barcelona, March 1994.

“Phenomenological Implications of the Infrared Fixed Point of the Top Quark Mass”

CERN, Switzerland, March 1994.

SUSY 94 Workshop, Ann Arbor, Michigan, May 1994.

“The Infrared Fixed Point Solution for the Top Quark Mass and its Experimental Signatures ”

Aspen Workshop on Supersymmetry from the TeV to the Planck Scale, Aspen CO, U.S.A., August 1994.

“Supersymmetry: From Theory to Experiment”, Williams and Mary University, Williamsburgh VA, U.S.A., September 1994.

“Phenomenological Implications of Minimal SO(10) Unification ”

Ohio State University, Columbus OH, U.S.A., November 1994.

“On the Higgs Mass in the MSSM and Yukawa Coupling Unification”

3rd Meeting of the Higgs Working Group of the LEP2 Workshop, Munich, Germany, March 1995.

“LEP2 Higgs Searches and Large Values of $\tan\beta$ in the MSSM”

XXXth Rencontres de Moriond on “Electroweak Interactions and Unified Theories”, Les Arcs, France, March 1995.

“LEP2 Physics and Minimal Supersymmetric SO(10) Unification”

European Community Network Meeting on Electroweak Interactions, Warsaw, Poland, April 1995.

“Physics at LEP and Yukawa Coupling Unification”

SUSY-95: International Workshop on Supersymmetry and Unification of Fundamental Interactions, Palaiseau, France, June 1995.

“Properties of the MSSM Higgs Mass Spectrum at Large Values of $\tan\beta$ ”

6th Meeting of the Higgs Working Group of the LEP2 Workshop, Orsay, France, July 1995.

“Effective Potential Methods and the Higgs Spectrum”

7th Meeting of the Higgs Working Group of the LEP2 Workshop, CERN, September 1995.

“Precision Measurements, SUSY Spectrum and Yukawa Coupling Unification

5th Meeting of the New Particles Working Group of the LEP2 Workshop, CERN, Geneva, September 1995.

“Light Higgsino Detection at LEP1.5”

6th Meeting of the New Particles Working Group of the LEP2 Workshop, CERN, Geneva, November 1995.

“Phenomenology of Low Energy Supersymmetry”

Ecole Polytechnique, Paris, France, January 1996.

“On the Electroweak Phase Transition”

SUSY96, College Park, Maryland, U.S.A., May 1996.

“Introduction to Supersymmetric Phenomenology”

CERN, Geneva, October 1996.

“Higgs and Supersymmetric Particle Searches at LEP2”, and

“Light Stop and the Electroweak Phase Transition”

Nordita, Copenhagen, November 1996.

“Electroweak Baryogenesis and Higgs Physics”

University of Chicago, Chicago, U.S.A., February 1997,
 Third Warsaw Workshop “Physics from the Planck Scale to the Weak Scale”, Warsaw, Poland, April 1997,
 Fermi National Laboratory, Batavia IL, U.S.A., May 1997.
“Grand Unification and Supersymmetry”
 International Conference on Supersymmetry, SUSY97, Philadelphia, Pennsylvania, U.S.A., May 1997.
“Electroweak Baryogenesis and Higgs and Stop Searches at LEP and the Tevatron”
 DESY Zeuthen, Berlin, Germany, June 1997;
 Argonne National Laboratory, Chicago, U.S.A., September 1997.
 Triangle Meeting of Particle Physics, Viena, Austria, November 1997.
 University of California, Davis, CA, U.S.A., February 1998.
“R-Parity Violation and the high Q^2 HERA Events”
 Workshop on New Physics at LEP and the Tevatron, Aspen, Colorado, U.S.A., August 1997.
“Phenomenology of Supersymmetry”
 Workshop on Physics at muon Colliders, Fermilab, Batavia, U.S.A., November 1997.
“Phenomenological Aspects of Supersymmetric Theories” University of Munich, Munich, Germany, February 1998.
“Fermion Masses and Minimal SO(10) Unification”
 University of California, Davis, CA, U.S.A., February 1998.
“Introduction to Supersymmetry Phenomenology
 Northern Illinois University, IL, USA, March 1998.
“Supersymmetry, the Top Quark and the Higgs Mass”
 Fermilab, Batavia, IL, March 1998.
 Argonne National Laboratory, Batavia, IL, March 1998.
 Rutgers University, NJ, U.S.A., April 1998.
“Summary of the SUGRA Working Group Activities”
 First General Meeting of the SUSY/HIGGS Tevatron Run II Workshop, Fermilab, Batavia, IL, U.S.A., May 1998.
“Higgs and Supersymmetric Particle Physics in the Large $\tan\beta$ regime
 First European Meeting from the Weak scale to the Planck scale, Kazimierz, Poland, May 1998.
“On Higgs Searches at LEP2
 Meeting of the LEP2 Higgs Working Group, CERN, Geneva, Switzerland, June 1998.
“Electroweak Baryogenesis and Supersymmetry”

Institute for Particle Physics, Stony Brook University, NY, U.S.A., February 1998.

SUSY 98 Conference, Oxford, England, July 1998.

Physics Department, University of Buenos Aires, Buenos Aires, Argentina, July 1998.

DESY Theory Workshop, DESY, Hamburg, Fed. Rep. of Germany, October 1998.

“Supersymmetry Phenomenology at the Tevatron Collider” Fermilab, Batavia, IL, November 1998.

“Higgs Phenomenology and CP-Violation in the MSSM

IFT Workshop on Higgs and Supersymmetry: Search and Discovery, Gainesville, Florida, March 1999.

Recontres de Moriond, Electroweak Session, Les Arcs, France, March 1999.

Meeting on Supersymmetry Phenomenology, Lyon, France, March 1999.

Second European Meeting From the Planck Scale to the Electroweak Scale, Bad Honnef, Germany, April 1999.

“The complementarity of LEP, the Tevatron and the LHC in the search for a light MSSM Higgs Boson”

SUSY99, Fermilab, Batavia, IL, U.S.A., June 1999.

“Phenomenology of Theories with Large Extra Dimensions”

CERN, Geneva, June 1999

Argonne National Laboratory, Argonne, IL, U.S.A., July 1999.

“On Higgs Searches at LEP and the Tevatron”

Workshop on Phenomenology of Supersymmetry and Superbranes, Aspen, CO, U.S.A., July 1999.

“Diagrammatic vs. RG computation of the lightest CP-even Higgs mass”

Univ. of Wisconsin, Madison, Oct. 1999.

Workshop on New Theoretical Developments for Higgs searches at LEP, Oct. 1999

“New progress on Electroweak Baryogenesis”

Pascos Conference, Lake Tahoe, December 1999.

“New Theoretical Developments on Higgs Physics”

Aspen Winter Physics Conference, Aspen, CO, U.S.A., January 2000.

“Higgs Physics, Supersymmetry and CP Violation”

Recontres de Moriond, QCD Session, Les Arcs, France, March 2000.

“Phenomenology of Supersymmetry.”

Univ. of Chicago, Chicago, IL, U.S.A., April 2000.

“New Theoretical Developments in the MSSM Higgs sector.”

Univ. of Illinois, Urbana, IL, U.S.A, April 2000.

“Electroweak Precision Measurement and a Light Sbottom in the MSSM ”

DPF Meeting, Columbus, OH, U.S.A., August 2000.
Aspen Workshop on Physics at the Weak Scale and Beyond, August 2000.
“Supersymmetry and Electroweak Baryogenesis”
Argonne National Laboratory, Argonne, IL, U.S.A., May 2000.
DPF Meeting, Columbus, OH, July 2000.
RadCor Conference, Carmel, CA, U.S.A., September 2000.
“Higgs Physics and Electroweak Baryogenesis”
Univ. of Alabama, Tuscaloosa, AL, November 2000.
“A Tale of Two Gravitons”
Workshop on Physics in Extra Dimensions, Warsaw, Poland, February 2001.
“Higgs Physics and CP Violation”
University of Chicago, February 2001.
“On the Anomalous Magnetic Moment of the Muon”
University of Chicago, March 2001.
“Supersymmetry at Photon Colliders”
Workshop on Physics at Photon Colliders, Fermilab, Batavia, March 2001.
“Electroweak Baryogenesis in the MSSM”
Higgs and Supersymmetry, Orsay, France, March 2001;
Workshop on Cosmology in Supesymmetry and String Theory, Heidelberg, Germany, April 2001.
“Higgs Physics and the Origin of the Baryon Asymmetry in the MSSM”
DESY, Hamburg, Germany, April 2001.
“Introduction to Supersymmetry”
University of Chicago, Chicago, IL, May 2001.
“New Physics at the Tevatron”
Pheno 2001 Conference, Madison, Wisconsin, May 2001.
“The muon Anomalous Magnetic Moment as a Probe of the Standard Model”
Physics Division Colloquium, Argonne National Lab, June 2001.
“Brane Effects on Extra Dimensional Scenarios”
Theory Institute, Argonne National Lab, June 2001.
“Probing Heavy Higgs Boson Models at TeV Linear Colliders”
Workshop on Physics at Linear Colliders, Chicago, January 2002.
“Beautiful Mirrors and Electroweak Precision Data”
Michigan State University, October 2001.
Workshop on Physics at Linear Colliders, Chicago, January 2002.
WIN02 Conference, Christchurch, New Zealand, January 2002.

Aspen Winter Conference, Aspen CO, Feb. 2002.
“Summary Talk, Electroweak Symmetry Breaking Group”
 WIN02 Conference, Chirstchurch, New Zealand, January 2002.
“Beauty and the Beast: New Physics Solutions to Bottom Quark Problems”
 EFI Seminar, Univ. of Chicago, April 2002.
“Electroweak Baryogenesis in the MSSM ”
 Plenary talk, SUSY 2002 Conference, DESY, Hamburg, June 2002.
“Brane and Orbifolds are Opaque”
 Aspen Summer Conference, Aspen, CO, August 2002.
“Precision Measurements, New Physics and Unification of Couplings”
 Caltech, Pasadena, CA, December 2002.
“Supersymmetry, the Baryon Asymmetry and the Origin of Mass.” Physics Colloquium, University of Chicago, February 2003.
“Extra Dimensions ”
 Talk at the LDRD Symposium, Argonne National Laboratory, March 2003.
“Electroweak Baryogenesis and Low Energy Supersymmetry”
 Aspen Winter Conference, January 2003.
 Plenary talk, Conference on twenty years of Supergravity, March 2003.
“Physics of Extra Dimensions”
 Argonne National Laboratory Theory Meeting, April 2003.
“Supersymmetry and the Matter-Antimatter Asymmetry ”
 Texas A&M Colloquium, College Station, Texas, May 2003.
“Precision Electroweak Data, Unification of Couplings and Collider Phenomenology ”
 Supersymmetry 2003 Conference, Tucson, Arizona, June 2003.
“Electroweak Baryogenesis in the MSSM ”
 Workshop on Baryogenesis, Ann Arbor, Michigan, June 2003.
“Beautiful Mirrors and Unification of Couplings ”
 Aspen Summer Workshop, Aspen, CO, August 2003.
“On the Unification of Fundamental Particle Interactions ”
 Texas A&M Colloquim, College Station, Texas, October 2003
“Precision Electroweak Measurements and Collider Phenomenology ”
 Univ. of Wisconsin, Madison, November 2003.
“Physics in Extra Dimensions ”
 Aspen Winter Conference, Aspen, CO, January 2004
“Supersymmetry and the Matter-Antimatter asymmetry ”

Northwestern University, Evanston, IL, February 2004
“Supersymmetry, Dark Matter and Electroweak Baryogenesis ”
University of Chicago, Chicago, IL, February 2004
Colorado State University, Boulder, CO, March 2004
“New Physics at the Tevatron”
EFI Mini-Symposium on Tevatron Physics, Chicago, IL, March 2004
“Cosmology and Phenomenology of a minimal extension of the MSSM”
Moriond Winter Conference, La Thuile, March 2004
“Supersymmetry, Dark Matter and the Matter-Antimatter Asymmetry ”
The Ohio State University, Columbus, OH, April 2004
APS April 2004 Meeting, Denver, CO, May 2004
“Higgs Physics, Supersymmetry and CP Violation ”
International Conference on Supersymmetry 2004, Tsukuba, Japan, June 2004.
“New Physics at Hadron and Lepton Colliders ”
Fifth Latinamerican Symposium on High Energy Physics, Lima, Peru, July 2004.
“Lectures on Physics Beyond the Standard Model ”
VI Giambiagi School on Particle Physics, University of Buenos Aires, Buenos Aires, July 2004.
“Baryogenesis and New Physics at the Weak Scale ”
Slac Summer Institute, SLAC, August 2004.
Pascos 2004, Northeastern University , August 2004.
Fermi National Laboratory, September 2004.
“Supersymmetry, Baryogenesis, and New TeV Fermions ”
University of Chicago, Chicago, IL, October 2004.
2004 Miami Conference on Particle Physics, Key Biscane, FL, December 16, 2004.
“Gauge Bosons in Warped Extra Dimensions and Precision Measurements ”
Workshop on Z’ physics, Northwestern University, Evanston, IL, November 2004.
“New Results in Electroweak Baryogenesis ”
Aspen Winter Conference, Aspen, CO, February 17, 2005.
“The Supersymmetric Origin of Matter ”
Linear Collider Workshop, Stanford, CA, March 20, 2005.
“Electroweak Baryogenesis in the (n)MSSM and CP-violation”
CP and Non-Standard Higgs Workshop, SLAC, CA, March 25, 2005.
“New Physics at the Top ”
Top Quark Symposium, Michigan, Ann Arbor, April 8, 2005.
“New Results in Electroweak Baryogenesis ”

Univ. of Manchester, England, July 6, 2005

“Electroweak Precision Measurements and New Physics ”

Pre-SUSY2005 Meeting, Durham, England, July 13, 2005.

“Lectures on Supersymmetry ”

Lectures given at Fermilab, Batavia, Il, June 23 and June 30, 2005.

Lectures given at the Les Houches Summer school, August 2–4, 2005.

“Determining the Charged Higgs Bosons properties at the ILC”

Snowmass Workshop, Snowmass, CO, August 18, 2005.

“Higgs and B-physics at the Tevatron and the LHC”

Lunch Seminar, HEP Division, October 18, 2005.

Plenary Talk, TeV4LHC Workshop, Fermilab, October 20, 2005.

“Higgs Physics”

Graduate Student Seminar, Univ. of Chicago, October 25, 2005.

“Low Energy Supersymmetry and Electroweak Baryogenesis”

Plenary Talk, International Conference on Flavor Physics, National Central University, October 6, 2005.

University of Minnesota, Minneapolis, November 10, 2005.

University of Chicago, February 7, 2006.

“Dark Matter and New Physics Searches at Hadron and Lepton Colliders”

KICP Seminar, LASR, Univ. of Chicago, February 10, 2006.

“Constraints on B and Higgs Physics in Minimal Supersymmetric Models”,

Univ. of Florida, Mar. 10, 2006.

“Baryogenesis, Dark Matter and Low Energy Supersymmetry” ,

CIPANP 2006, Westin Mar Rio Beach, Puerto Rico, May 31, 2006.

SUSY06, Univ. of California, Irvine, June 15, 2006.

Santa Fe Physics Workshop, Santa Fe, July 25, 2006.

“Electroweak Baryogenesis”,

PASCOS 2006, Columbus, OH, September 10, 2006.

“Constraints on B and Higgs Physics in Minimal Supersymmetric Models”,

Univ. of Chicago, Sept. 21, 2006.

Michigan State Univ., Oct. 17, 2006.

“Lectures on Supersymmetry”

Puerto Vallarta, Mexico, October 28–Nov. 1, 2006.

“Summary talk, Aspen Winter Conference”,

Aspen, CO, January 12, 2007.

“Interplay of B and Higgs Physics in Minimal Supersymmetric Models” ,

Joint Brookhaven–Stony Brook seminar, January 31, 2007.
“Lectures on Supersymmetry”
 CERN School on Particle Physics, Renaca, Chile, February 26–March 2, 2007
“Electroweak Baryogenesis and Supersymmetry”
 Moriond Conference, Electroweak Session, La Thuile, Italy, March 16, 2007
“Absence of Higgs Signatures at the LHC and the ILC”
 Plenary talk, Workshop on the “Early Phase of the LHC and the ILC”, April 12, 2007.
“Electroweak Baryogenesis”
 Plenary Talk, Workshop on the “Hunt for Dark Matter”, Fermilab, May 12, 2007
Radiative Electroweak Symmetry Breaking and Gauge Higgs Unification in Warped Extra Dimensions
 Argonne/University of Chicago Joint Theory Institute, Argonne, IL, June 5, 2007.
“Interplay of B-Physics and Higgs Searches at Hadron Colliders”
 Plenary Talk, Planck 2007 Conference, Warsaw, Poland, June 13, 2007
“Weak Scale Physics, Dark Matter and the Matter-Antimatter Asymmetry”
 ICTP School on Particle Physics, Trieste, Italy, June 20, 2007
“New Developments in Electroweak Baryogenesis “
 Beyond the Standard Model at the Dawn of the LHC era, Budapest, Hungary, June 27, 2007.
“Supersymmetry, Dark Matter and the Matter-Antimatter Asymmetry”
 Workshop on the LHC Cosmology Interplay, CERN, Switzerland, July 13, 2007.
“High Energy Physics: Investigations of the Origins of Mass and Matter”
 Talk for Undergraduate students at the University of Chicago, August 2, 2007
“Electroweak Baryogenesis and Physics at the TeV scale”,
 Johns Hopkins University, Baltimore, September 6, 2007
“Electroweak Baryogenesis in the nMSSM and ILC Physics”,
 ALCPG07 at Fermilab, October 24, 2007
“Baryogenesis Confronts Experiment : On the Matter-Antimatter Asymmetry”
 KICP Workshop, Univ. of Chicago, Nov. 7–9, 2007
“Interplay of B and Higgs Physics in Minimal Supersymmetric Models”
 Workshop on Interplay of Flavor and Collider Physics, CERN, December 3, 2007.
“Higgs decay to two scalars at hadron colliders “
 University of Chicago, Chicago, February 18, 2008
“Phenomenology of the nMSSM: From Cosmology to Collider Physics”
 Moriond QCD session at La Thuile, March 10, 2008
“Dynamical Solution to the μ/B_μ Problem in Gauge Mediated Supersymmetry

Breaking”

KITP LHC Workshop, Santa Barbara, March 27, 2008

“Interplay between B Physics, Higgs Physics and Dark Matter Searches”

CDF Collaboration Meeting, Fermilab, June 17, 2008

“Gauge Higgs Unification and Radiative EW symmetry breaking in Warped Extra Dimensions”

Weihai Forum on Frontiers of HEP-LHC Physics, July 11, 2008

“The supersymmetric Origin of Matter “

KITPC Workshop, Beijing, China, July 14, 2008

“Theoretical Aspects of Supersymmetry and SUSY Higgs”

Plenary talk, ICHEP08, Philadelphia, August 3, 2008.

“Cosmology and the LHC”

SEWM08 Conference, Amsterdam, Netherlands, August 28, 2008.

“ Light Stop Searches at the Tevatron and the LHC “

Workshop on Hadron Collider Physics, Fermilab, September 18, 2008.

“ CPT Violation and Neutrino Physics “

Ayres Fest, HEP Division, Argonne, September 3, 2008.

“ Phenomenological Constraints on Warped Extra Dimensions”

NIT Workshop on Collider Physics, Seattle, September 30, 2008.

“Electroweak Baryogenesis in the nMSSM and ILC Physics”,

American Linear Collider Group Workshop, UIC, Chicago, November 19, 2009.

“Cosmology and Physics at Hadron Colliders

KICP Lunch Seminar, Univ. of Chicago, January 30, 2009.

Physics Department, Univ. of Wisconsin, Madison, Feb. 5, 2009.

Physics Department, Purdue University, West Lafayette, March 10, 2009.

Physics Colloquium, Argonne National Laboratory, March 27, 2009.

“Interplay between B Physics, Higgs Physics and Dark Matter Searches”

Aspen Winter Workshop, Aspen, CO, February 10, 2009.

“Phenomenological Properties of Extra Dimensions ”

CIPANP Conference, San Diego, CA, May 30, 2009.

“Propects for MSSM Higgs Physis at the Tevatron

GGI Workshop, Florence, Italy, September 10, 2009.

DOE Review, Univ. of Chicago, September 11, 2009.

HDays09, Santander, Spain, September 15, 2009.

“New Physics at the Weak Scale”

Aspen Physics Colloquium, Aspen, CO, August 6, 2009.

“Lectures on Supersymmetry ”

Parma School on Theoretical Physics, Parma, Italy, September 1–5, 2009. **“Weak Scale Baryogenesis in the MSSM and in an SU(2) extended Model”**

Workshop on Baryon and Lepton Number Violation, Madison, WI, September 22, 2009.

“Argonne HEP Theory Group Activities”

Argonne DOE Review, September 23, 2009.

“Flavor Physics in the LHC Era”

Workshop on the Interplay of Flavor and Collider Physics, CERN, December 14, 2009.

“Is the Revolution in Particle Physics Here ? ”

Aspen Winter Conference Summary Talk, Aspen, CO, January 22, 2010.

“ New Physics at the Weak Scale : From Collider Physics to Cosmology ”

Physics Colloquium, Notre Dame University, February 24, 2010.

“Theoretical High Energy Physics Group ”

Talk given to prospective students, University of Chicago, April 9, 2010.

“Open Question in Particle Physics”

Kennedy Junior High School, Outreach Talk, April 22, 2010.

“Prospects for MSSM Higgs Searches at the Tevatron Collider ”

MCTP Higgs Symposium, Ann Arbor, MI, May 15, 2010.

“Physics at the Energy Frontier ”

FNAL Users Meeting, Fermilab, Batavia, IL, June 3, 2010.

“New Physics at the Weak Scale: Supersymmetry and Extra Dimensions”

Recontres de Blois, Blois, France, July 15–20, 2010.

“Lectures on Electroweak Baryogenesis”

Pre-SUSY 2010 school, University of Bonn, Germany, August 19-20, 2010.

“High Energy Physics in the LHC Era”

Meeting of the Argentine Physics Association, Malargue, Argentina, October 1, 2010.

“Beyond the Standard Model, Mass Generation, Cosmology and the LHC

Strings@ar meeting, University of Buenos Aires, October 7, 2010.

“Dark Light Higgs

PCTS Meeting on Dark Matter, Princeton University, Nov. 16, 2010.

“Searches for WIMPS at Colliders

Public Lecture, Chicago, December 9, 2010.

“Dark Matter

Public Lecture, Buenos Aires, December 27, 2010.

“MSSM Higgs Physics at the End of the Tevatron and the Beginning of the LHC Era”

Aspen Winter Workshop, Aspen, CO, February 28, 2011.

“High Energy Physics at the Beginning of the LHC Era”

Colloquium, University of Chicago, April 7, 2011.

Colloquium, University of Washington, Seattle, April 25, 2011.

Physics Division Colloquium, Argonne, May 13, 2011.

“New results on MSSM Higgs Physics

Workshop on Electroweak Symmetry Breaking, Univ. of Wisconsin, Madison, May 8, 2011.

“Theoretical High Energy Physics Group”

Argonne DOE Review, Argonne, IL, May 24, 2011.

“MSSM Higgs Physics at the Tevatron and at the LHC”,

Argonne HEP DOE Review, Argonne, IL, May 25, 2011.

“The Quest for New Physics at the Weak Scale ”

Perugia Workshop on LHC, Perugia, Italy, June 10, 2011.

“Argonne/FNAL/Univ. of Chicago Theory Collaborations”

ANL/FNAL/UofC Collaboration Meeting, Univ. of Chicago, June 13, 2011.

“MSSM Higgs Physics at the 7 TeV LHC”, TH LPCC Meeting, CERN, August 19, 2011.

“Supersymmetry : Theoretical Perspective” SUSY 2011 Conference, Fermilab, September 2, 2011

“Supersymmetry and Baryogenesis at the Electroweak Phase Transition”, BLV Meeting, Gatlinburg, September 23, 2011.

“The Quest for Physics at the Weak Scale”, PLHC Conference, Perugia, Italy, June 10, 2011.

“Higgs Physics in the SM and Beyond”, GGI Conference, Florence, November 8th, 2011.

“Higgs Physics at the 7 TeV LHC in the Standard Model and Beyond”, Mainz University, November 24th, 2011.

University of Karlsruhe, November 25th, 2011; University of Chicago, November 28th, 2011.

“Higgs Physics at the Tevatron and at the 7 TeV LHC”, D0 collaboration meeting, Fermilab, December 6th, 2011.

“Proton Decay”, Intensity Frontier Workshop, Rockville, MD, December 2th, 2011.; LBNE Collaboration Meeting, December 16th, 2011.

“A 125 GeV Higgs and the $\gamma\gamma$ Rate”, Higgs workshop, University of Pittsburgh, January 14th, 2012.

“Supersymmetry and Baryogenesis at the Electroweak Phase Transition”, University of Irvine, February 22th, 2012.

“Implications of an Enhanced Diphoton Decay Rate of the Higgs”, Higgs Workshop, University of Michigan, Ann Arbor, April 16, 2012; Lunch Seminar, University of Chicago, April 23, 2012.

“Proton Decay” LBNE Reconfiguration Workshop, Fermilab, April 26th, 2012.

“Interplay of SUSY and Higgs Physics” Supersymmetry worksop, Brookhaven National Lab, May 2, 2012.

“Implications of an Enhanced Diphoton Decay Rate of the Higgs”, Planck Conference, Warsaw, May 31, 2012. International Conference on New Frontiers in Physics, Crete, June 11, 2012.

“Theoretical Implications of the Higgs Discovery at the LHC”, LHC Results Forum, July 12, 2012.

“The Light Stau Scenario and an Enhanced Diphoton Decay of the Higgs”, Higgs Days at Santander, Santander, Spain, September 19, 2012.

“On the Future of High Energy Physics”, Pilcher Fest, University of Chicago, September 22, 2012.

“Higgs Discovery and Physics at an Electron-Positron Higgs Factory”, Argonne Workshop on Higgs Physics, October 5, 2012.

“Higgs Physics in the MSSM : Implications for future Collider Searches”, Higgs and the Next Discovery Workshop, University of Pittsburgh, October 19, 2012; University of Kentucky, Physics Seminar, November 2, 2012.

“Higgs Discovery : Implications for Particle Physics” University of Kentucky Colloquium, November 2, 2012.; EFI Colloquium, University of Chicago, November 5, 2012

“Implications of an Enhanced Diphoton Decay Width of the Higgs”, KITP Higgs Workshop, Santa Barbara, December 19, 2012.

“Implication of the Higgs Discovery”, Argonne Physics Division Seminar, January 21, 2013.

10 Recent Community Activities

Convener, SUGRA Working Group, Workshop on Physics at the Tevatron Collider, Fermilab (1998–2000).

Organizer, Theory Institute on Supersymmetry and Higgs Physics, Argonne, May 2000.

Local Organizer, SUSY 2000, CERN, Geneva, July 2000.

Convener, Beyond the Standard Model Session, DPF Meeting, Columbus, Ohio, August 2000.

Convener, Beyond the Standard Model Group, Workshop on Physics at Gamma Colliders, Fermilab, March 2001.

Convener, Higgs Workshop on Recent Developments on Higgs Physics, Fermilab, May 2001.

Convener, Workshop on Higgs Physics at TeV Colliders, Les Houches, France, May 2001.

Organizer, Theory Institute on Supersymmetry and Extra Dimensions, Argonne, June 2001.

Convener, Electroweak Symmetry Breaking Session, WIN02 Conference, Chirstchurch, New Zealand, January 2002.

Organizer, Theory Institute on Supersymmetry, Higgs Physics and Extra Dimensions, held at Argonne, September 2002.

Member, SPS Committee at CERN, 1997–2000.

Member, LEP Higgs Working Group, 1997–2002.

Local Organizer, Cosmo02 Conference, held at Chicago, IL, September 2002.

Oganizer, Chicagoland Theory Seminar, held at Argonne National Laboratory, October 2002.

Search Committee, Joint Junior Facutly position Argonne-Univ. of Chicago, 2002–2003.

Organizer, Neutrino Workshop, Argonne Nat. Lab., May 11–May 17, 2003.

Organizer, Baryogenesis Workshop, Univ. of Michigan, Ann Arbor, June 9–June 27,2003.

Co-organizer, Workshop on Brane Dynamics, Argonne, IL, October 2003

Member, Strategic Planning Group, HEP Division, Argonne National Laboratory.

Member, HEP Director Review Committee, Argonne Nat. Lab., October–December 2003.

Co-organizer, TASI lectures on Physics, 2004.

Co-organizer, Workshop on Higgs, Supersymmetry and Extra Dimension, Argonne, IL, May 2004.

Organizer, Enrico Fermi Institute Mini-Symposium on Physics Challenges at the LHC, EFI, Univ. of Chicago, March 14, 2005.

Co-Organizer, Argonne Workshop on Higgs, Supersymmetry and Extra Dimensions, Argonne, IL, May 9–13, 2005.

Local Organizer, Kaon 2005 Conference, Northwestern University, IL, July 2005.

Co-Organizer, Les Houches Summer School, Les Houches, France, August 2005.

Scientific Advisory Board, Argonne Theory Institute, October 2004–

Member, International Advisory Committe for the dual Colima-Puebla Institute of High Energy Physics, Colima and Puebla, Mexico, January 2006.

Member, Argonne HEP Director Search Committee, February 2005–

Member, Steering Committee of the LHC Theory Initiative (LHC-TI), May 2005–,

Member, Colloquium Committee, Univ. of Chicago, August 2005–.

Head, Search Comittee, for a position on Theoretical High Energy Physics at the Univ. of Chicago, Nov. 2005–

Member, Elementary Particle and Astrophysics NSF Review Panel, Arlington, VA, February 20–22, 2006.

Member, Lawrence Berkeley National Laboratory DOE Review Panel, Berkeley, CA, February 28–March 2, 2006.

Organizer, Argonne/University of Chicago Collider Workshop, Argonne, IL, May 8–12, 2006.

Organizer, Aspen Summer Workshop, Aspen, CO, August 2006.

Head, Search Committee, for a joint Argonne Nat. Lab.- Northwestern Univ. position on Theoretical High Energy Physics, Nov. 2006 –

Convener, WIN07 Conference, Calcutta, India, January 15–20, 2007.

Member, Lawrence Berkeley National Laboratory DOE Review Panel, Berkeley, CA, March 20–22, 2007.

Leader, Astrophysics Initiative, Argonne, April 2007–Dec. 2008.

Head, Search committee for a Joint Fermilab–University of Chicago position in Theoretical Particle Physics, March 2008–Dec. 2008.

Member, Search Committee for a Leader in Astrophysics at Argonne National Laboratory, November 2007– July 2008.

Member, Particle Physics Project Prioritization Panel (P5) National Committee, January 2008–December 2008.

Convener, American Linear Collider Group Conference, November 2008

Co-organizer, Argonne JTI Workshop, Argonne, IL, April 2009.

Co-organizer, Argonne/IIT Workshop on Collider Physics, Argonne, IL May 2009

Member, Search Committee for an Associate Physicist position at Argonne National Laboratory, jointly with Northwestern University, September 2009–June 2010. (Led to the Appointment of F. Petriello and R. Boughezal).

Head, Search Committee for an Assistant Professor position at the University of Chicago, September 2009–July 2010 (Led to the Appointment of Lian-Tao Wang).

Member, Particle Physics Project Prioritization Panel (P5) National Committee, October 2010.

Member, Report Writing Committee, Retreat Argonne HEP Division, December 2010–April 2011.

Member, Scientific Committee, Workshop on Muon Colliders, Telluride, CO, June 27–July 1, 2011.

Chair, PreSUSY 2010 school Organizing Committee, University of Chicago, August 24–26, 2011.

Convener, Proton Decay Group, Intensity Frontier Workshop, December 2012.

Convener, Higgs Physics LHC Workshop, Chicago, IL, May 2–4, 2012.

Organizer, Chicago Workshop on Implication of the Higgs Discovery, Chicago, IL, November 12–14, 2012.

11 External Funding Awards

U.C.–ANL Collaboration Grant, 1999.

“Physics Beyond the Standard Model and Experimental Tests”, obtained in collaboration with Ed Berger of Argonne and J. Rosner at the University of Chicago. 40,000 U\$ were received at Argonne and a similar amount at Chicago. These funds were used to support the appointment of D. Kaplan at the Theory Group between fall of the year 1999 and the fall of 2001.

Argonne Theory Institute, FY 2000 on Higgs and Supersymmetry Physics, Obtained in Collaboration with Ed Berger. Provided by Associate Laboratory Director F. Fradin, in the amount of 20,000 U\$ to organize a Workshop at the HEP Division, which took place in April–May, 2000.

Theory Institute FY 2001 on Physics at the Electroweak Scale, Obtained in Collaboration with Ed Berger. Provided by Associate Laboratory Director F. Fradin, in the amount of 20,000 U\$ to organize a Workshop at the HEP Division, which took place in June of 2001.

Argonne Individual Investigator Laboratory Directed Research and Development Award, October 2001.

Obtained in Collaboration with Ed Berger. Awarded 57,000 U\$ to appoint a postdoc at the Argonne Theory Group, on the fields of Beyond the SM and Extra Dimensions. Renewal proposal approved in October 2002.

Principal Investigator, University of Chicago DOE Grant, September 2006–September 2009.

Obtained in Collaboration with Profs. D. Kutasov, E. Martinec and J. Rosner from the Enrico Fermi Institute, University of Chicago.

Argonne National Laboratory Theory Institute, FY 2003 on Current Trends in Neu-

trino Physics,

20,000 U\$S to organize a Workshop at the HEP Division, May 11-17, 2003.

Argonne National Laboratory Theory Institute, FY 2004 on Supersymmetry, Higgs Physics and Extra Dimensions

20,000 U\$S to organize a Workshop at the HEP Division, May 24-28, 2004.

Argonne National Laboratory Theory Institute, FY 2005 on Supersymmetry, Higgs Physics and Extra Dimensions

20,000 U\$S to organize a Workshop at the HEP Division, May 9-13, 2005.

Principal Investigator, University of Chicago–Argonne National Laboratory Collaborative Seed Grant, October 2005–2007.

Co-PI : Henry Frisch from University of Chicago. 100,000 U\$S Grant Awarded to organize a "Joint Institute on High Energy Collider Physics."

Principal Investigator, University of Chicago–Argonne National Laboratory Joint Theory Institute, February 2007–2008.

Co-PIs: Jeff Harvey, David Kutasov, Craig Roberts, Cosmas Zachos and Don Sinclair
108,000 U\$S awarded to hire a joint postdoc, a student and organize two workshops on non-perturbative studies of gauge theories and brane dynamics.

Principal Investigator, University of Chicago–Argonne National Laboratory Joint Theory Institute, February 2009-

CoPIs: Marcela Carena, Richard Hill, Tim Tait

80,000 U\$ awarded to support students, organize workshops and bring visitors to both institutions.

Principal Investigator, University of Chicago DOE Grant, September 2009-

Obtained in Collaboration with Profs. D. Kutasov, E. Martinec and J. Rosner from the Enrico Fermi Institute, University of Chicago.

12 Publications in Refereed Journals

1. “Low Energy Supergravity: R Parity Breaking and the Top Quark Mass”

M. Carena and C.E.M. Wagner

Phys. Lett. **B 186**, pp. 361-364 (1987).

2. “Neutralino Production in $e^+ e^-$ Annihilation”

M. Carena and C.E.M. Wagner

Phys. Lett. **B 195**, pp. 599-602 (1987).

3. “Limits on the Top Quark Mass within the Frame of the Minimal Superstring Inspired Model”

M. Carena and C.E.M. Wagner

Phys. Lett. **B 198**, pp. 205-208 (1987).

4. “Comment on New Model of B-Quark Interactions: A Superstring Alternative”

J. Russo and C.E.M. Wagner

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