

**EDUCATION**

- Ph.D. in Experimental High Energy Physics. University of Minnesota. 1986. Thesis: *Experimental Observations of Exclusive Hadronic Interactions at High Momentum Transfer*
- B.S. in Physics. South Dakota State University. 1979
- B.S. in Mathematics. South Dakota State University. 1979

**EMPLOYMENT**

- Vice President for Research and Innovation Partnerships, Northern Illinois University, DeKalb, IL 60115. May 2017-Present
- Interim Vice President for Research and Innovation Partnerships, Northern Illinois University, DeKalb, IL 60115. May 2015-May 2017
- Acting Associate Vice President for Research and Innovation Partnerships, Northern Illinois University, DeKalb, IL 60115, 2014-2015
- Assistant Director for the Physical Sciences, Office of Science and Technology Policy, Executive Office of the President, Washington, D.C., 2011-2014
- International Linear Collider Program Manager, Office of High Energy Physics, Office of Science, Department of Energy, Germantown, MD 20874, 2007-2010
- Distinguished Research Professor, Physics Department, Northern Illinois University, DeKalb, IL 60115. 2004 - Present
- Presidential Research Professor, Physics Department, Northern Illinois University, DeKalb, IL 60115. 1999 - 2004
- Professor of Physics, Physics Department, Northern Illinois University, DeKalb, IL 60115. 1998 - 1999
- Associate Professor of Physics, Physics Department, Northern Illinois University, DeKalb, IL 60115. 1996-1998
- Associate Scientist, Fermi National Accelerator Laboratory, P.O. Box 60510, Batavia IL 60510. 1994-1996
- Senior Research Associate, Dept. of Physics and Astronomy, University of Rochester, Rochester, NY 14627. 1990-1994
- Research Associate, Department of Physics and Astronomy, University of Rochester, Rochester, NY 14627. 1986-1990

**SIGNIFICANT APPOINTMENTS**

- Member Public Policy Committee, American Physical Society, 2014-Present
- Distinguished Engineer, College of Engineering, South Dakota State University, 2013
- Member, Scientific Advisory Committee, Cockcroft Institute, Daresbury Laboratory, UK, 2012- Present
- Visiting Scientist, Argonne National Laboratory, Lisle, Illinois 2010-2011
- Member, Large Hadron Collider Committee, CERN, Geneva, Switzerland 2008-2011
- Fellow, Argonne Accelerator Institute, 2007-2010
- Presidential Science Advisor, Northern Illinois University, August 2006 to 2013
- Fellow, APS Division of Particles and Fields, Elected 2005 Citation: *For leadership of the DØ experiment and the study of jet production at the Tevatron.*
- Guest Professor, University of Science and Technology of China, Hefei, China, January 2005
- Spokesperson DZero Experiment, Fermi National Accelerator Laboratory, Elected, 2002-2006
- Director, Northern Illinois Center for Accelerator and Detector Development, NIU, 2001-2007, 2009-2011, 2014-2015

## WORK EXPERIENCE

**Summary:** Experience in experimental particle physics, scientific and academic leadership, and U.S. science policy. Research involves design, construction, operation, and management of detectors, electronics, and software for use in particle physics experiments and investigation of the strong force. Teaching experience includes instruction of introductory general education physics to senior level quantum physics and graduate student training. Policy and administrative experience gained through service at the Department of Energy and at the Office of Science and Technology Policy, management of research centers and large scientific projects, and in university administration.

### **Vice President for Research and Innovation Partnerships, Interim May 2015 – May 2017, Permanent to Present**

- Responsibility for Division of Research and Innovation Partnerships.
- Oversight of the Office of Sponsored Programs Administration (SPA); Office of Research Compliance, Integrity, and Safety (ORCIS); Office of Innovation (OI), Northern Illinois University Press, Office of Federal Relations, and three Institutes/Centers.
- Oversight of \$5-6M annual budget, 40 employees, and ~\$30M sponsored projects.
- President of the Northern Illinois Research Foundation.
- Member of President's Senior Cabinet and Executive Budget Committee.
- Reorganized the Division with the merger of pre- and post-award functions into SPA, consolidation of research oversight into ORCIS, and addition of innovation activities to technology transfer to create OI.
- Instituted a rigorous divisional budget process.
- Broadened the curriculum and reach of the year-long Principle Investigator Academy for new faculty.
- Reviewed and updated laboratory safety policies and sponsored creation of graduate curriculum in professional safety.
- Restructured and consolidated Division advisory bodies into a single Research and Innovation Advisory Committee.
- Leading development of a student and faculty innovation center on campus.

### **Acting Associate Vice President for Research and Innovation Partnerships, 2014-2015**

- Responsibility for the Office of Research Compliance and Integrity (ORCI) with five direct reports. Oversight of Institutional Research Boards, the Institutional Animal Care and Use Committee, the Institutional Biosafety Committee, lab safety, veterinarian services, and responsible conduct of research.
- Direction and oversight of the two major awards programs: the Presidential Research Professorship and Summer Research and Artistry Awards.
- Development and oversight of research initiatives and research clusters. In 2014, initiation of a four faculty accelerator research cluster with Fermi National Accelerator Laboratory to augment the existing three faculty group.
- University liaison with Fermi National Accelerator Laboratory and Argonne National Laboratory.

### **Assistant Director for Physical Sciences, Office of Science and Technology Policy, Executive Office of the President, 2011-2014**

- Responsibility for monitoring and facilitating interagency aspects of large scientific facilities such as telescopes, accelerators, and national and international laboratories. Specific projects: Laser Interferometry Gravitational Observatory (LIGO), Large Synoptic Sky Telescope (LSST), James Webb Space Telescope (JWST), International Thermonuclear Experimental Reactor (ITER), Facility for Rare Isotope Beams (FRIB), Long Baseline Neutrino Experiment (LBNE).
- With the Office of Management and Budget, development of budget priorities for the NSF and DOE Office of Science and consultation on budgets for NASA and DOD.
- With the Office of Management and Budget and the Department of Energy developed the National Strategic Computing Initiative to increase the ultimate capability of high performance computing by a factor of 100.
- International science portfolio, including projects in Europe, India, Australia, Japan, and China, and the relationship between the US and CERN.
- Liaison for the Physical Sciences Sub-committee (PSSC) of the National Science and Technology Council. Issues included, the life science/physical science interface; the supply and demand of two isotopes vital to physical research, helium-4 and heavy water; and federal research opportunities in optics and photonics. During the 2013 legislative sessions, helped shape the *Helium Stewardship Act* to ensure helium will remain available through the next decade for the US research enterprise. As liaison, assisted with development of the report: *Fast Track Action Committee on Optics & Photonics: Building a Brighter Future with Optics and Photonics* which helped initiate the formation of the Manufacturing Innovation Institute for Integrated Photonics announced in 2015.
- Formed an interagency working group involving NIH, NSF, DOE, the Smithsonian, and the USDA to promote and harmonize graduate education modernization across the Federal enterprise.
- Member of the A21 Task Force, charged with providing recommendations for an update of federal research cost principles, which was eventually subsumed into the larger effort leading to the Uniform Guidance.
- Initiated interagency discussions of technical solutions for gun-safety as a component of the President's initiative to reduce

gun-violence. Resulted in a report on gun safety technology published by the National Institute of Justice.

**International Linear Collider Program Manager, Office of High Energy Physics, Full time July 2007 to July 2009 and half time July 2009 to July 2010**

- Served as advisor to the Associate Director of the Office of High Energy Physics.
- Responsible for international relations and involved in strategic planning for the Office of High Energy Physics.
- As International Linear Collider (ILC) Program Manager, oversaw research and development for a technical design completed in 2012. The yearly budget of the ILC reached \$35M.
- Point of contact for the proposed Long Baseline Neutrino Experiment comprised of a kiloton class neutrino detector and a neutrino beam.
- Silent editor of the 2010 report *Accelerators for America*, which led to program development at NSF and DOE.

**Visiting Scientist, Argonne National Laboratory, 2010-2011**

- Led the ATLAS analysis effort, chaired weekly meetings, recruited university participants, promoted new analyses.
- Member of the Fast Track trigger upgrade effort. Organized the Argonne design effort funded by an NSF MRI.

**Northern Illinois Presidential Science Advisor, NIU, August 2006 to 2013**

- Provided NIU President advice on scientific matters related to NIU science program.
- Member of the of planning team for NIU Proton Therapy Treatment Center.
- Responsible for relations with Fermi National Accelerator Laboratory and Argonne National Laboratory.

**NICADD Director, NIU, 2001-2007, 2009-2011, and 2014-2015**

- Founded the Northern Illinois Center for Accelerator and Detector Development (NICADD) to promote accelerator and detector science in Northern Illinois and similar efforts at Fermi National Accelerator Laboratory.
- NICADD has received funding from the Department of Education, DOE and NSF and has a staff of about 25 engineers, technicians, and physicists.
- Responsible for the disposition of university resources dedicated to NICADD, development of new initiatives, and recruitment and retention of personnel.
- Personal research efforts focused on particle detector instrumentation, including calorimetry, detectors for the proposed International Linear Collider, and proton computed tomography (pCT). Chair of the pCT Management Team.
- Managed International Linear Collider internships at Fermilab for the College of Engineering and Engineering Technology (CEET) undergraduates and graduate students.
- Assisted with the development of a joint radiofrequency Master's program between CEET and Fermilab.

**Associate Professor, Professor, Presidential Research Professor, Distinguished Research Professor, NIU, August 1996 to Present**

- From 2002 to 2006 served as elected Co-Spokesperson for the DØ Collaboration. DØ is an international collaboration representing the efforts of over 700 physicists and Ph.D. students from 90 institutions with a common goal of investigating a diverse range of particle physics topics. The experiment collected data from 1992 to 2011.
- Research and development for ILC detectors. Focused on the development of new detector technology. Held a leadership role as co-convenor on hadron calorimetry on the ILC SiD detector.
- Directed development and design of the upgraded DØ detector trigger. The new trigger operated at the high luminosities of the Main Injector upgrade. Responsibilities included convening upgrade trigger meetings, organizing and coordinating research efforts, identifying resources and contributing to the design and architecture of new trigger elements.
- Measurement of the single jet inclusive and dijet cross sections as a function of transverse energy, rapidity, and cone size in proton-antiproton collisions at 1.8 TeV. Published numerous peer reviewed articles on jet production.
- Elected 2000 to the Advisory Council of the DØ experiment. Elected 2001 Deputy Head of the Institutional Board.
- PhD thesis advisor for students from University of Delhi, the University of Nebraska, and the University of Rochester.
- Successfully proposed a Physics Ph.D. program to the Illinois Board of Higher Education. The first doctorate was completed in 2004.
- Advised six Master's and two doctoral students.
- Instructor for Physics 250, a general education course without calculus; Physics 253, Fundamentals of Physics I: Mechanics with calculus; and Physics 460 and 461 quantum mechanics for professional physics majors.

**Associate Scientist, Fermi National Accelerator Laboratory, January 1994 – August 1996**

- Jets Sub-convenor of the DØ QCD physics group for analyses including measurements of jet transverse energy spectra and angular distributions. Required scheduling of weekly meetings, evaluating and coordinating ongoing analyses, presentations, and publications.
- Project Manger for the upgraded DØ detector trigger.

- Member of DØ Internal Review Editorial Boards for various analyses including the inclusive jet cross section and top quark measurements. Responsibilities included making necessary evaluation of methods and systematics applied in analyses to prepare new results for presentation and publication.
- Shift Captain of the DØ collider detector, responsible for hourly and daily operation of the detector. Included supervision of shift physicists and support technicians. The captain also selected trigger menus, supervised data acquisition, and coordinated activities between the various detector elements of DØ .
- Second term as Physics Co-convenor of the DØ quantum chromodynamics analysis group. Included scheduling of weekly meetings, development of new analyses, selection of speaker candidates, evaluation of presentations and publications, direction of graduate and post-doctoral students and coordination of the various ongoing analyses. Some of the approximately 30 analyses include measurements of inclusive jet and photon cross sections, differential cross sections, W+jet cross sections, di-jet angular distributions, rapidity gap characteristics, color and energy flow, and soft gluon emission.
- Ph.D. thesis advisor for five students from the University of Buenos Aires, Korea University, University of Delhi, University of Nebraska, and University of Rochester.
- Member of the Fermilab Long Range Planning Committee – QCD sub-group. Provided recommendations and predictions for QCD research and Fermilab over the next decade.

#### **Research Associate and Senior Research Associate, University of Rochester, June 1986 –January 1994**

- Shift Captain of the DØ Collider Detector.
- First term as Physics Convener of the DØ QCD analysis group.
- Trigger Meister for the DØ collaboration. Responsible for the construction and maintenance of the trigger menu used in the DØ collider experiment. This included collection and evaluation of trigger requests from the five DØ physics groups, representing two hundred physicists, and tailoring the menu to the available acquisition bandwidth.
- Participated in the design and evaluation of the DØ offline jet analysis software.
- Designed and supervised construction of a low-noise 50 channel liquid argon purity monitoring system including sensors and data acquisition electronics. System monitored the efficiency of charge collection in liquid argon.
- Designed and supervised construction of a 900 channel cryogenic thermometry system including sensors and data acquisition electronics.
- Designed and supervised the construction of a 2300 channel high voltage filtering system.
- Participated in DØ Test Beam experiment. Studied energy response of DØ Uranium-Liquid Argon (U-LAr) calorimeter modules to electrons and pions of momenta 2-150 GeV/c. Explored calorimeter response versus charge collection field and with addition of various additives to the argon. Calculated corrections to response of DØ calorimeters as a function of argon purity, studied differences in properties of charge deposition by electromagnetic and hadronic showers, and examined effect of photo sensitive dopant on the observed  $e/\pi$  ratio.
- Simulated calorimeter response to electrons and hadrons using the software package GEANT. Specifically, performed systematic studies of resolution loss due to calorimeter cracks and mechanical obstructions. Investigated possible uses of the covariance correlation matrix to improve calorimetry performance in these compromised areas.
- Participated in the design of a 10,000 liter liquid argon cryostat used for the calibration and commissioning of particle calorimeters.
- Supervised design and implementation of cryostat, sensors, and data acquisition of several liquid argon purity test stands.
- Ph.D. thesis advisor for five students from the University of Buenos Aires, Korea University, University of Delhi, University of Nebraska, and University of Rochester.

## UNIVERSITY ACTIVITIES

### COURSES

- General Physics I
- Fundamentals of Physics I: Mechanics
- Quantum Physics
- Modern Physics

### NIU UNIVERSITY COMMITTEES

1. Member, President's Senior Cabinet, 2015-Present
2. Member, Executive Budget Committee, 2015-Present
3. Chair, Research and Innovation Advisory Committee, 2016
4. Member, University Council Personnel Committee, 2015-Present
5. Member, International Affairs Advisory Council, 2015-Present
6. Member, Committee of Deans, 2015-Present
7. Chair, Laboratory Safety Committee, 2014-Present
8. Member, Search Committee for Director of Media Services, 2015
9. Member, Search Committee for Vice President of Administration and Finance, 2014
10. Chair, NIU Proton Computed Tomography Management Committee, 2010-2014
11. Member, NIU Research & Graduate Studies Development Council, 2010-2011
12. Member, Selection Committee for Board of Trustees Professorships, 2007-2011
13. Member, Provost's Strategic Planning Taskforce, 2006-2007
14. Member, Office of Sponsored Projects Ad-hoc Committee for Evaluation of MRI proposals, 2006-2007
15. Member, Planning Team for the Northern Illinois Hadron Therapy and Research Institute, 2005-2007
16. Member, Search Committee Director of Office of Sponsored Projects, 2005-2006
17. Member, Select Committee for Presidential Research Professorships, 2003-2010
18. Member, Academic Program Council, 1999-2002

### DEPARTMENTAL COMMITTEES

1. Chair, Doctoral Committee for Stephen Cole, 2014
2. Member, Doctoral Committee for Chad Suhr, 2014
3. Member, HEP Faculty Search Committee, 2013-2014
4. Member, Doctoral Committee for Robert Calkins, 2012
5. Member, Departmental Executive Committee, 2010-2011
6. Chair, Doctoral Committee for Kurt Francis, 2010
7. Member, Beams Faculty Search Committee, 2010-2011
8. Member, Doctoral Committee for Diego Menezes, 2009-2011
9. Member, Doctoral Committee for Mike Arov, 2003-2007
10. Member, Doctoral Committee for Mike Eads, 2003-2005
11. Member, Departmental Chairperson Selection Committee, 2002, 2009
12. Chair, Departmental Space Committee, 2001-2006, 2009
13. Chair, Doctoral Proposal Committee, 1999-2001
14. Chair and Member, Departmental Merit Committee, 1998-2000.
15. Chair, Student Recruitment Committee. 1998-2000

## SCHOLARSHIP

### GRANT ACTIVITY

#### State of Illinois (subcontracted through Illinois Institute of Technology)

1. Co-PI, Accelerator R & D at Fermilab, 8/22/2003 - 8/31/2004, \$437,000.00
2. Co-PI, Accelerator R & D at Fermilab, 8/22/2002 - 8/31/2003, \$444,000.00
3. Co-PI, Accelerator R & D at Fermilab, 8/21/2001 - 8/31/2002, \$450,000.00
4. Co-PI, Research and Development on Cooling of Intense Muon Beams, 9/1/2001 - 8/31/2005, \$75,000.00
5. Co-PI, Accelerator R & D at Fermilab, 8/22/2000 - 8/31/2001, \$450,000.00
6. Co-PI, Research and Development on Cooling of Intense Muon Beams, 6/1/2000 - 5/31/2002, \$97,983.00
7. Co-PI, Research and Development on Cooling of Intense Muon Beams, 6/1/2000 - 10/31/2001, \$50,306.00

#### National Science Foundation

8. Co-PI, MRI Consortium: Development of the Extinction Monitor System for the Mu2e Experiment at Fermilab, Submitted 2016, \$776,333
9. Co-PI, Searching for New Phenomena with Leptons, 7/1/2015 - 6/30/2018, Received \$280,000 to date.
10. Co-PI, MRI: Development of Ultrafast Tracking Electronics for the ATLAS Trigger, 9/15/2011 - 8/31/16, \$70,277 (Relinquished Co-PI to avoid possible conflicts of interest)
11. Co-PI, Searches for New Phenomena with High Energy Particle Colliders, 8/15/2009 - 6/30/2016, \$1,000,000.
12. Co-PI, Searches for New Phenomena with High Energy Particle Colliders, 8/1/2006 - 7/30/2010, \$785,441
13. PI, Searches for New Phenomena with High Energy Particle Colliders, 8/1/2003 - 7/31/2006, \$639,000
14. PI, MRI: A Consortium of the Acquisition of Equipment to Complete a Proton Detector for the DZero Experimental Particle Physics Program, 8/1/2003 - 7/31/2006, \$125,209
15. Co-PI, Studies of High Energy Phenomena Using Muons, 8/15/2001 - 10/31/2003, \$412,001
16. Co-PI, Studies in High Energy Phenomena Using Muons, 7/15/1998 - 6/30/2002, \$640,000
17. PI, MRI: HEP Consortium: Development of a Level-2 Trigger for the Study of 2000 GeV Proton-Antiproton collisions, 9/15/1997 - 3/1/1999, \$354,000

#### U.S. Department of the Army

18. Co-PI, ParticleTherapy Research and Treatment, 1/9/2010 - 30/9/2014, Authority for \$1,431,000 of \$9,400,000

#### U.S. Department of Education

19. PI, Northern Illinois Center for Accelerator and Detector Development, 6/15/2005 - 6/15/2009, \$1,984,000
20. PI, Northern Illinois Center for Accelerator and Detector Development, 9/1/2003 - 8/31/2006, \$1,987,000
21. PI, Northern Illinois Center for Accelerator and Detector Development, 4/1/2001 - 3/31/2004, \$4,146,000

#### U.S. Department of Energy

22. Co-PI, University Research Associated (Fermi Contractor), Mu2e Experiment Cosmic Ray Veto System, 9/30/15-8/31/16, \$15,000
23. PI, Office of Science and Technology Policy Appointment, 06/01/11 - 9/30/14, \$635,490.
24. PI, Argonne National Laboratory, ATLAS LHC Project, 8/16/2010 - 8/15/2011, \$52,692.
25. PI, Argonne National Laboratory, Resistive Plate Chambers, 1/1/2010 - 8/15/2010, \$23,798
26. PI, Office of Science, Intergovernmental Assignment, 7/8/2007 - 7/9/2010, \$491,550
27. PI, Fermi National Accelerator Laboratory, Hydrogeologic Investigations for the ILC Project, 5/23/2006 - 8/31/2006, \$15,000
28. PI, Fermi National Accelerator Laboratory, Minerva Experiment, 10/1/2005 - 9/30/2008, \$119,810
29. PI, Fermilab National Accelerator Laboratory, Guest Appointment for Dr. Bill Lee, 1/1/2006 - 12/31/2006, \$61,722
30. PI, Fermilab National Accelerator Laboratory, 10/1/2004 - 3/31/2005, \$50,000
31. Co-PI, Development of New Hadronic Calorimeter Technology, 8/15/2002 - 8/14/2003, \$45,000
32. PI, Fermi National Accelerator Laboratory, Faculty Appointment, 8/16/2000-12/31/2000, \$16,000
33. Co-PI, Fermi National Accelerator Laboratory, DZero NT Release Manager, 12/16/1999 - 9/30/2000, \$10,000
34. Co-PI, Fermi National Accelerator Laboratory, DZeroMuon Upgrade, 7/1/1999 - 9/30/1999, \$10,000.
35. PI, Fermi National Accelerator Laboratory, R & D Muon and Trigger Development, 1/31/1998 - 12/31/2000, \$166,000.00

### GRADUATE STUDENTS

- Daniel Elvira, University of Buenos Aires, Ph.D. 1995
- Chang Lyong Kim, Korea University, Ph.D. 1995
- Mrinmoy Bhattacharjee, University of Delhi, Ph.D. 1997
- Ki Suk Hahn, University of Rochester, Ph.D. 1998
- John Krane, University of Nebraska, Ph.D. 1998
- Lin Bagby, NIU, Master's, 2004
- Dmitri Besnosko, NIU, Master's, 2004
- Kurt Francis, NIU, Master's, 2004 and Ph.D. 2010

- Robert McIntosh, NIU Master's, 2007
- Ngoc Tran, NIU, Master's, 2007
- Fayez Abuajamieh, NIU Masters, 2011
- Stephen Cole, NIU, Ph.D., 2014, winner NIU Outstanding Dissertation Award 2014-2015

#### POSTDOCTORAL SCIENTISTS

- Dhiman Chakraborty (SUNY-SB)
- Alexandre Dychkant (IHEP)
- Guilherme Lima (CBPF, Brazil)
- Sergey Uzunyan (NIU)
- Adam Yurkewicz (Stony Brook)
- Vishnu Zutshi (Dehli)
- Kurt Francis (NIU)

#### JOURNAL PUBLICATIONS (Note: papers involving instrumentation are in bold)

1. **"Studies associated with the Development of a Modified University of Aarhus Negative Ion Source", G. D. Alton and G. C. Blazey, Nucl. Instr. and Meth. 166, 105 (1979).**
2. "Decay Distributions of High Transverse Momentum Mesons" S. Heppelmann et al., Phys. Rev. Lett. **55**, 1824 (1985).
3. "Hard Scattering with Exclusive Reactions: Elastic Scattering and Meson Production", G. C. Blazey et al., Phys. Rev. Lett. **55**, 1820 (1985).
4. "Experimental Observations of Exclusive Hadronic Interactions at High Momentum Transfer", G. C. Blazey, UMI 87-00569-MC (1986).
5. "Comparison of Exclusive Reactions at Large  $t$ " B. R. Baller et al., Phys. Rev. Lett. **60**, 1118 (1988).
6. **"Hadron and Electron Response in a Uranium Liquid Argon Calorimeter from 10-150 GeV." S. Aronson et al., Nucl. Instr. and Meth. A269, 492 (1988).**
7. **"Hadron and Electron Response of Uranium/Liquid Argon Calorimeter Modules for the DØ Detector", M. Abolins et al., Nuclear Inst. and Meth., A280, 36 (1989).**
8. **"Improving Energy Resolution of Calorimeters Using a Covariance Matrix Approach", D. Kewley et al., Nucl. Instr. and Meth. 290, 346 (1990).**
9. "Single Spin Asymmetry in Inclusive Reactions  $p\bar{p}$  Goes to  $p^+$ ,  $p^-$ , and  $p$  at High  $P_T$  at 13.3 and 18.5 GeV/c" S. Saroff et al., Phys. Rev. Lett. **64**, 995 (1990).
10. **"The Minimum and Heavily Ionizing Components of Particle Showers", G. C. Blazey, R. J. Hirosky, Nucl. Instr. and Meth. A327, 141 (1993).**
11. **"Design, Construction, and Performance of the Electromagnetic Module of the DØ End Calorimeter", H. Aihara et al., Nucl. Instr. and Meth. A325, 393 (1993).**
12. **"Beam Tests of the DØ Uranium Liquid Argon End Calorimeters", S. Abachi et al., Nucl. Instrum. Methods Phys. Res. A324, 53-76 (1993).**
13. **"The DØ Detector", S. Abachi et al., Nucl. Instrum. Methods Phys. Res. A338, 185 (1994); Fermilab-Pub-93/179-E.**
14. "First Generation Leptoquark Search in  $p\bar{p}$  Collisions at  $\sqrt{s}$  TeV", S. Abachi et al., Phys. Rev. Lett. **72**, 965 (1994); Fermilab-Pub-93/340-E.
15. "Search for the Top Quark in  $p\bar{p}$  Collisions at  $\sqrt{s}$  TeV", S. Abachi et al., Phys. Rev. Lett. **72**, 2138 (1994); Fermilab-Pub-94/004-E.
16. "Rapidity Gaps between Jets in  $p\bar{p}$  Collisions at  $\sqrt{s} = 1.8$  TeV", S. Abachi et al., Phys. Rev. Lett. **72**, 2332 (1994); Fermilab-Pub-94/005-E.
17. "Search for High Mass Top Quark Production in  $p\bar{p}$  Collisions at  $\sqrt{s} = 1.8$  TeV", S. Abachi et al., Phys. Rev. Lett. **74**, 2422 (1995); Fermilab-Pub-94/354-E.
18. "Observation of the Top Quark", S. Abachi et al., Phys. Rev. Lett. **74**, 2632 (1995); Fermilab-Pub-95/028-E.
19. "Inclusive  $\pi$  and  $b$ -Quark Production Cross Sections in  $p\bar{p}$  Collisions at  $\sqrt{s} = 1.8$  TeV", S. Abachi et al., Phys. Rev. Lett. **74**, 3548 (1995); Fermilab-Pub-94/409-E.
20. "Search for Squarks and Gluinos in  $p\bar{p}$  Collisions at  $\sqrt{s} = 1.8$  TeV", S. Abachi et al., Phys. Rev. Lett. **75**, 618 (1995); Fermilab-Pub-95/057-E.
21. "Search for W Boson Pair Production in  $p\bar{p}$  Collisions at  $\sqrt{s} = 1.8$  TeV", S. Abachi et al., Phys. Rev. Lett. **75**, 1023 (1995); Fermilab-Pub-95/044-E.
22. "Limits on the Anomalous  $ZZ\gamma$  and  $Z\gamma\gamma$  Couplings in  $p\bar{p}$  Collisions at  $\sqrt{s} = 1.8$  TeV", S. Abachi et al., Phys. Rev. Lett. **75**, 1028 (1995); Fermilab-Pub-95/042-E.
23. "Measurement of the  $WW\gamma$  gauge Boson Coupling in  $p\bar{p}$  Collisions at  $\sqrt{s} = 1.8$  TeV", S. Abachi et al., Phys. Rev. Lett. **75**, 1034 (1995); Fermilab-Pub-95/101-E.
24. "W and Z Boson Production in  $p\bar{p}$  Collisions at  $\sqrt{s} = 1.8$  TeV", S. Abachi et al., Phys. Rev. Lett. **75**, 1456 (1995);

Fermilab-Pub-95/130-E.

25. "A Study of the Strong Coupling Constant Using  $W + \text{Jets}$  Processes", S. Abachi et al., Phys. Rev. Lett. **75**, 3226 (1995); Fermilab-Pub-95/085-E.
26. "Top Quark Search with the  $D\bar{0}$  Detector, 1992 – 93 Data Sample", S. Abachi et al., Phys. Rev. D **52**, 4877 (1995); Fermilab-Pub-95/020-E.
27. "Transverse Energy Distributions within Jets in  $p\bar{p}$  Collisions at 1.8 TeV", S. Abachi et al., Phys. Lett. B **357**, 500 (1995); Fermilab-Pub-95/203-E.
28. "Search for Heavy  $W$  Bosons in 1.8 TeV  $p\bar{p}$  Collisions", S. Abachi et al., Phys. Lett. B **358**, 405 (1995); Fermilab-Pub-95/283-E.
29. "Second Generation Leptoquark Search in  $p\bar{p}$  Collisions at 1.8 TeV", S. Abachi et al., Phys. Rev. Lett. **75**, 3618 (1995); Fermilab-Pub-95/185-E.
30. "Studies of Topological Distributions of Inclusive Three- and Four-Jet Events in  $p\bar{p}$  Collisions at  $\sqrt{s} = 1800$  GeV with the  $D\bar{0}$  Detector", S. Abachi et al., Phys. Rev. D **53**, 6000 (1996); Fermilab-Pub-95/296-E.
31. "Jet Production via Strongly-Interacting Color-Singlet Exchange in  $p\bar{p}$  Collisions" S. Abachi et al., Phys. Rev. Lett. **76**, 734 (1996); Fermilab-Pub-95/302-E.
32. "Search for  $W_1 Z_2$  via Trilepton Final States in  $p\bar{p}$  Collisions at  $\sqrt{s} = 1.8$  TeV", S. Abachi et al., Phys. Rev. Lett. **76**, 2228 (1996); Fermilab-Pub-95/385-E.
33. "Search for Right-Handed  $W$  Bosons and Heavy  $W'$  in  $p\bar{p}$  Collisions at  $\sqrt{s} = 1.8$  TeV", S. Abachi et al., Phys. Rev. Lett. **76**, 3271 (1996); Fermilab-Pub-95/412-E.
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- 473. Validation of GEANT4 Monte Carlo Models with a Highly Granular Scintillator-Steel Hadron Calorimeter, CALICE Collaboration, JINST 8 (2013) P07005**
- 474. Track segments in hadronic showers in a highly granular scintillator-steel hadron calorimeter, CALICE Collaboration, JINST 8 (2013) P09001**
475. [Measurement of the direct CP-violating parameter  \$A\_{CP}\(D^+ \rightarrow K^+ \pi^+ \pi^+\)\$](#) , Phys. Rev. D **90**, 111102(R) (2014)
476. [Observation and studies of double J/ψ production at the Tevatron](#), Phys. Rev. D **90**, 111101(R) (2014)
477. [Measurement of differential tt production cross sections in pp collisions](#), Phys. Rev. D **90**, 092006 (2014)
478. [Measurement of the forward-backward asymmetry in pp → tt production in l+jets channel](#), Phys. Rev. D **90**, 072011 (2014)
479. [Measurement of the forward-backward asymmetry in the distribution of leptons in tt in the lepton+jets channel](#), Phys. Rev. D **90**, 072001 (2014)
480. [Constraints on models for the Higgs boson with exotic spin and parity in  \$VH \rightarrow Vbb\$  final states](#), Phys. Rev. Lett. **113**, 161802 (2014)
481. [Measurement of the differential inclusive  \$\gamma + 2\$  b-jets cross section and the ratio  \$\sigma\(\gamma + 2 b\)/\sigma\(\gamma + b\)\$  in pp collisions at  \$\sqrt{s} = 1.96\$  TeV](#), Phys. Lett. B **737**, 357 (2014)
482. [Study of the Electric Charge of the Top Quark in pp → tt Events](#), Phys. Rev. D **90**, 051101(R) (2014)
483. [Jet energy scale determination in the D0 experiment](#), Nucl. Instrum. Methods A **763**, 442 (2014)
484. [Precision measurement of the top quark mass in lepton+jets final states at D0](#), Phys. Rev. Lett. **113**, 032002 (2014)
485. [Improved b quark jet identification at the D0 experiment](#), Nucl. Instrum. Methods A **763**, 290 (2014)
486. [Observation of s-channel production of single top quarks at the Tevatron](#), Phys. Rev. Lett. **112**, 231803 (2014)
487. [Measurement of the W boson production charge asymmetry in  \$pp \rightarrow W + X \rightarrow e\nu + X\$  events at  \$\sqrt{s} = 1.96\$  TeV](#), Phys. Rev. Lett **112**, 151803 (2014)
488. [Double Parton Interactions in  \$\gamma + 3\$  jets and  \$\gamma + b/c + 2\$  jets events in pp collisions at  \$\sqrt{s} = 1.96\$  TeV in D0](#), Phys. Rev. D **89**, 072006 (2014)
489. [Electron and Photon Identification in the D0 Experiment](#), Nucl. Instrum. Methods A **750**, 78 (2014)
490. [Combination of measurements of the top-quark pair production cross section from the Tevatron Collider](#), Phys. Rev. D **89**, 072001 (2014)
491. [Measurement of the direct CP-violating charge asymmetry in  \$D\_s^{\pm} \rightarrow \phi \pi^{\pm}\$](#) , Rev. Lett **112**, 111804 (2014)
492. [Measurement of the W boson mass with the D0 detector](#), Phys. Rev. D **89**, 012005 (2014)
493. [Measurement of associated production of Z bosons with charm quark jets in pp collisions at  \$\sqrt{s} = 1.96\$  TeV](#), Phys. Rev. Lett. **112**, 042001 (2014)
494. [Search for the X\(4140\) state in  \$B^+ \rightarrow J/\psi \phi K^+\$  decays with the D0 detector](#), Phys. Rev. D **89**, 012004 (2014).
495. [Study of CP-violating charge asymmetries of single muons and like-sign dimuons in pp collisions](#), Phys. Rev. D **89**, 012002 (2014)
496. [Muon reconstruction and identification with the Run II D0 detector](#), Nucl. Instrum. Methods in Phys. Res. Sect. A **737**, 281 (2014)
- 497. Performance of the first prototype of the CALICE scintillator strip electromagnetic calorimeter, NIM A763, 279 (2014)**
- 498. Shower development of particles with momenta from 1 to 10 GeV in the CALICE Scintillator Tungsten HCAL, JINST 9 01004, (2014)**
499. [Inclusive production of the X\(4140\) state in pp collisions at D0](#) Phys. Rev. Lett. **115**, 232001 (2015)
500. [Search for Violation of CPT and Lorentz invariance in  \$B^0\_s\$  meson oscillations](#) Phys. Rev. Lett. **115**, 161601 (2015)
501. [Tevatron combination of single-top-quark cross sections and determination of the magnitude of the Cabibbo-Kobayashi-Maskawa matrix element  \$V\_{tb}\$](#)  Phys. Rev. Lett. **115**, 152003 (2015)
502. [Simultaneous measurement of forward-backward asymmetry and top polarization in dilepton final states from tt production at the Tevatron](#) Phys. Rev. D **92**, 052007 (2015)
503. [Measurement of the effective weak mixing angle in  \$pp \rightarrow Z/\gamma^\* \rightarrow e^+e^-\$  events](#) Phys. Rev. Lett. **115**, 041801 (2015)

504. [Precision measurement of the top-quark mass in lepton+jets final states](#) Phys. Rev. D **91**, 112003 (2015)
505. [Measurement of the forward-backward asymmetry in  \$\Lambda\_b^0\$  and  \$\bar{\Lambda}\_b^0\$  baryon production in pp collisions at  \$\sqrt{s} = 1.96\$  TeV](#) Phys. Rev. D **91**, 072008 (2015)
506. [Tevatron Constraints on Models of the Higgs Boson with Exotic Spin and Parity Using Decays to Bottom-Antibottom Quark Pairs](#) Phys. Rev. Lett. **114**, 151802 (2015)
507. [Measurement of the W+b-jet and W+c-jet differential production cross sections in pp collisions at  \$\sqrt{s} = 1.96\$  TeV](#) Phys. Lett. B **743**, 6 (2015)
508. [Measurement of the  \$\phi\_n^\*\$  distribution of muon pairs with masses between 30 and 500 GeV in 10.4 fb<sup>-1</sup> of pp collisions](#) Phys. Rev. D **91**, 072002 (2015)
509. [Measurement of the ratio of inclusive cross sections  \$\sigma\(\text{pp} \rightarrow Z + 2 \text{ jets}\)/\sigma\(\text{pp} \rightarrow Z + 2 \text{ jets}\)\$  in pp collisions at  \$\sqrt{s} = 1.96\$  TeV](#) Phys. Rev. D **91**, 052010 (2015)
510. [Measurement of the electron charge asymmetry in  \$\text{pp} \rightarrow W + X \rightarrow \text{ev} + X\$  events at  \$\sqrt{s} = 1.96\$  TeV](#) Phys. Rev. D **91**, 032007 (2015); Erratum: Phys. Rev. D **91**, 079901 (2015)
511. [Measurement of the  \$B\_s^0\$  lifetime in the flavor-specific decay channel  \$B\_s^0 \rightarrow D\_s \mu X\$  with the D0 detector](#) Phys. Rev. Lett. **114**, 062001 (2015)
512. [Measurement of the forward-backward asymmetry in the production of  \$B^\pm\$  in pp collisions at  \$\sqrt{s} = 1.96\$  TeV](#) Phys. Rev. Lett. **114**, 051803 (2015)
513. [Precise measurement of the top quark mass in dilepton decays using optimized neutrino weighting](#) Phys. Lett. B **752**, 18 (2016)
514. **Shower development of particles with momenta from 15 GeV to 150 GeV in the CALICE scintillator-tungsten hadronic calorimeter, JINST 10 (2015) P12006**
515. **Pion and proton showers in the CALICE scintillator-steel analogue hadron calorimeter, JINST 10 (2015) P04014**

#### REFEREE

1. Physics Review Letters
2. Physics Letters B
3. Physical Review D
4. Physical Review X
5. Proposals to the Office of High Energy Physics, Department of Energy
6. Proposals to the National Science Foundation
7. Proposals to the Helmholtz-Russia Joint Research Group
8. Proposals to the Italian Ministry of Education

#### REVIEW ARTICLES

1. "Looking forward to physics at Tevatron Run II", G.C. Blazey et al., CERN Courier Volume 43, Number 1, January/February (2003).
2. "Inclusive Jet Energy and Angular Spectra at the Tevatron", G.C. Blazey and B. Flaugher, *Ann. Rev. of Nucl. and Particle Physics* **49**, 633 (1999).

#### CONFERENCE PROCEEDINGS

1. "An Array of Spherically Dimpled Scintillating Cells for an Integrated Readout Layer, Parallel Talk, 2014 Technology and Instrumentation in Particle Physics, Amsterdam, Netherlands, June 2-6, 2014"
2. "Solid State Photo-sensors and Scintillator Direct Coupling Measurements", Parallel Talk, 2007 International Linear Collider Workshop, Hamburg, Germany, May 30-June 3, 2007"
3. "A QCD Survey", Proceedings of the Division of Particles and Fields of the American Physical Society, August 9-12, 2000, Columbus, Ohio.
4. "Physics of a Neutrino Factory", C. Albright *et al.*, 2000, hep-ex/008064.
5. "Run II Jet Physics" G.C. Blazey *et al.*, Proceedings of the Run II QCD and Weak Boson Physics Workshop, Fermilab, Batavia, Illinois, 1999, LANL preprint number hep-ex/0005012.
6. "Inclusive Jet Production at 630 and 1800 GeV". G.C. Blazey, Proceedings of the XXIX International Conference on High Energy Physics July 23-29, 1998, University of British Columbia, Vancouver, B.C.
7. "The D0 Run II Trigger", G.C. Blazey, Proceedings of the Tenth IEEE Real-Time Conference, September 21-27, 1997, Beaune, France. Also FERMILAB-CONF-97/XXX-E.
8. "High Energy Tests of QCD", G.C. Blazey, Proceedings of the Sixth Conference on the Intersections of Nuclear and Particle Physics, May 28 - June 2, 1997, Big Sky, MT.
9. "Preliminary Measurement of the Inclusive Jet and Dijet Cross Section in pbarp Collisions at  $\sqrt{s} = 1.8$  TeV" G. C. Blazey, Proc. of the XXXIst Rencontres de Moriond: QCD and High Energy Hadronic Interactions, Les Arcs, France (1996). Also

FERMILAB-CONF-96/132-E.

10. "QCD at  $D\bar{0}$  and CDF" G. C. Blazey, Proc. of Les Recontres de Physique de la Vallee d'Aoste, La Thuile Italy, p.525 (1995). p. 996 (1993).
11. "Two Jet Energy and Rapidity Distributions" G. C. Blazey, Proc. of the Seventh Meeting of the APS Division of Particles and Fields, p. 996 (1993).
12. "The Minimum and Heavily Ionizing Components of Particle Showers", G. C. Blazey, R. J. Hirosky, Proc. of International Conference on Liquid Radiation Detectors, Waseda, Tokyo p.319 (1992).
13. "Monitoring Liquid Argon Purity at  $D\bar{0}$ " G. C. Blazey, Proc. of the 1990 International Conference on Calorimetry in High Energy Physics, Fermilab, Batavia IL, (1991).
14. "Exclusive Reactions and Dimensional Scaling: New Measurements and New Understanding" A. S. Carroll *et al.*, Proceedings of the DPF Salt Lake City Meeting, Salt Lake City, Utah (1987).
15. "Preliminary Results on Single Spin Asymmetry Measurement in Inclusive p(polarized)p Reactions at High  $P_T$  and 16.5 GeV/c" D. S. Barton *et al.*, Proceedings of the Sixth International Symposium on High Energy Spin Physics, Marseille, France p.109, (1984).
16. "Hard Quark-Quark Scattering with Exclusive Reactions" D. S. Barton *et al.*, Proceedings of the Sixth International Symposium on High Energy Spin Physics, Marseille, France p.115, (1984).

### WORKSHOP, CONFERENCE PRESENTATIONS and INVITED LECTURES

1. April 2, 2015, Illinois Institute of Technology, *Science Policy in the White House*.
2. January 22, 2015, Ohio State University, *Science Policy in the White House*.
3. June 6, 2014, Panelist, LHC 2014 Conference, New York, New York.
4. April 2, 2014, University of Texas Arlington, *A Primer on the Office of Science and Technology Policy*.
5. February 14, 2014, Invited Speaker, American Association for the Advancement of Science, Chicago, IL, *Graduate Education Modernization*.
6. August 1, 2013, Panelist, Snowmass on the Mississippi, Snowmass Community Summer Study.
7. July 22, 2013, NIU Research Roundtable, Washington, D.C., *NIU proton Computed Tomography Program*.
8. June 20, 2013, Quarknet Workshop, DeKalb, IL, "Opportunities for Physicists"
9. April 2013, National Academy of Sciences, Board on Physics and Astronomy, *The 2014 Budget*.
10. March 21, 2013, APS March Meeting, Baltimore, MD, "The President's Science Policy Agenda"
11. November 14, 2012, Guest Lecturer, Science and Public Policy, Yale University, New Haven, CT, "Federal Science and Technology Policy, Selected Initiatives, and the President's Budget for Fiscal Year 2013"
12. September 24, 2012, NSCL, Michigan State University, East Lansing, MI, "Federal Science and Technology Policy, Selected Initiatives, and the President's Budget for Fiscal Year 2013"
13. September 24, 2012, Michigan State University, East Lansing, MI, "Federal Science and Technology Policy, Selected Initiatives, and the President's Budget for Fiscal Year 2013"
14. March 27, 2012, Thomas Jefferson National Accelerator Facility, "A Primer on OSTP".
15. January 30, 2012, Brookhaven National Laboratory, "A Primer on OSTP"
16. October 9, 2009, Colloquium, NIU, DeKalb, IL, "High Energy Physics at NIU"
17. October 22-26, 2007, "Report from US Funding Agencies on Detector R&D", Plenary Talk, American Linear Collider Physics Group, Batavia, Illinois.
18. May 30-June 3, 2007, "Solid State Photo-sensors and Scintillator Direct Coupling Measurements", Parallel Talk, 2007 International Linear Collider Workshop, Hamburg, Germany.
19. April 14-17, 2007, "Electroweak physics and Higgs Searches at the Tevatron Collider", Invited Plenary Speaker, April 2007 Meeting of the American Physical Society, Jacksonville, Florida.
20. June 23, 2006, "Final Comments", DZero Collaboration Meeting, Fermi Natl. Accelerator Lab.
21. June 14-15, 2005, "Northern Illinois Hadron Therapy and Research Institute", Poster, Proton Therapy Cooperative Group, Zurich.
22. February 2, 2006, "News from the Microscopic Universe and the Energy Frontier", Colloquium, UC, Riverside, Riverside, CA.
23. April 28, 2006, "DZero Status and Physics Program", DZero International Finance Committee, Fermi Natl. Accelerator Lab.
24. March 16, 2006, "News from the Microscopic Universe and the Energy Frontier", Colloquium, South Dakota State University, Brookings, SD.
25. March 10, 2006, "Closing Comments", DZero Collaboration Meeting, Fermi Natl. Accelerator Lab
26. February 17, 2006, "News from the Microscopic Universe and the Energy Frontier", Colloquium, NIU, DeKalb IL, February
27. Dec 5, 2005, "Opening Comments", DZero Collaboration Meeting, Fermi Natl. Accelerator Lab.
28. Dec 1, 2005, "News from the Microscopic Universe and the Energy Frontier", Colloquium, Oklahoma State University, Stillwater, OK.
29. Dec 1, 2005, "Run II and DZero: Status, Results and Progress", Seminar, Oklahoma State University, Stillwater, OK.
30. Oct 20, 2005, "DZero Status and Plans", DZero International Finance Committee, Fermi Natl. Accelerator Lab
31. Sept. 30 2005, "Closing Comments", DZero Collaboration Meeting, Fermi Natl. Accelerator Lab.
32. Sept. 12, 2005, "DZero Performance and Planned Improvements, DOE High Energy Physics Advisory Panel P5 Subpanel,

Fermi Natl. Accelerator Lab.

33. Aug 18, 2005, "Tail-Catcher/Muon Tracker for the CALICE Test Beam", International Linear Collider Physics and Detector Workshop, Snowmass, CO.
34. Aug 11, 2005, "Commissioning a Large Detector: A Personal Perspective", Fermi Natl. Accelerator Lab.
35. June 13, 2005, "Welcome and Opening Comments", DZero Summer Workshop, Simon Fraser Univ., Vancouver, B.C.
36. Mar 30, 2005, "News from the Microscopic Universe and the Energy Frontier", University of Minnesota, Mpls. MN
37. Mar 18, 2005, "A Compilation of Results for Solid State Photo-detectors", Linear Collider Working Group, Stanford, CA.
38. Mar 2, 2005, "Closing Comments", DZero Collaboration Meeting, Fermi Natl. Accelerator Lab.
39. Jan 14, 2005, "News from DZero at the Tevatron", University of Science and Technology of China, Hefei, China.
40. Jan 10-15, 2005, "Hadron Collider Physics", a four lecture series, University of Science and Technology of China, Hefei, China.
41. Jan 5-7, 2005, "Hadron Collider Physics", a four lecture series, XIth Vietnam School of Physics, The University of Danang, Danang, Vietnam.
42. Jan 4, 2005, "DZero Proton-antiproton Physics at the Tevatron", University of Ho Chi Minh City, Ho Chi Minh City, Vietnam
43. Dec. 8, 2004, "Welcome and Opening Comments", DZero Collaboration Meeting, Fermi Natl. Accelerator Lab.
44. Nov 11, 2004, "News from the Microscopic Universe", University of Buffalo, Buffalo, NY
45. Nov 3, 2004, NIU Notables Brown Bag Lecture Series, "Live in a Mega-Science Experiment", DeKalb, IL
46. Oct 21, 2004, "DZero Status", DZero International Finance Committee, Fermi Nat. Accelerator Lab
47. Sept 28, 2004, "News from the Microscopic Universe", University of Mississippi, Oxford, Mississippi
48. Sept 22, 2004, "Welcome and Opening Comments, DZero Collaboration Meeting, Fermi Natl. Accelerator Lab
49. July 15, 2004, "Accelerators Physics at Universities", Argonne Natl. Lab. Retreat, Lisle, Illinois
50. June 13, 2004, "Closing Comments", DZero Summer Workshop, Fresno State University, Fresno California
51. May 28, 2004, "News from the Energy Frontier", DESY, Hamburg, Germany
52. April 20, 2004, "Status of DZero" Natl. Science Foundation and Department of Energy, Washington, D.C.
53. April 15, 2004, "DZero Status", DZero International Finance Committee, Fermi Nat. Accelerator Lab
54. March 8, 2004, "NIU Accelerator, Detector, and HEP Activities, Argonne Natl. Lab. ICAR Meeting
55. Feb 24, 2004, "Welcome and Opening Comments", DZero Collaboration Meeting, Fermi Natl. Accelerator Lab.
56. Feb 16-20, 2004, "DZero Physics and the Role of Intl. Computing", Digital Divide and HEP Grid Workshop, Rio de Janeiro, Brazil
57. Jan. 7-10, 2004, "Towards a Scintillator Digital Hadron Calorimeter", Stanford Linear Collider Cen. Winter Workshop, Palo Alto, California,
58. October 10, 2003, "Closing Comments, DZero Workshop", Fermilab, Batavia, IL
59. September 19, 2003, "DZero Status 2003: Detector, Operations, and Physics", DZero International Finance Committee, Fermilab, Batavia, IL.
60. September 10, 2003, "Overview of Accelerator-ICAR Activities at NIU", ICAR Review, IIT, Chicago, IL.
61. August 6, 2003, "DZero's View: Run II and the Upgrades", Fermilab Board of Overseers, Fermilab, Batavia, IL
62. June 16, 2003, "Opening Address", DZero Workshop, Beaune, France
63. June 13, 2003 "News and Results from DZero", Universite de Grenoble, Grenoble, France
64. June 6, 2003, "Status of Run II Jet Production Measurements at DZero and Selected Run I Curiosities", Invited Talk, Low-X 2003 Conference, Nafplion, Greece
65. March 14-15, 2003, "DZero Status and Prospects", URA Visiting Committee, Fermilab, Batavia, IL.
66. March 18-20, 2003, "DZero Status and Physics", DOE Fermilab Review, Fermilab, Batavia, IL.
67. March 21, 2003, "DZero Status, Physics and Outlook", Rice University, Houston, Texas.
68. February 21, 2003, "Exploring the Microscopic Structure of the Universe with the DZero Proton-antiproton Collider Detector", Fresno State, Fresno, CA.
69. December 2002: National Science Foundation, Arlington, Virginia, "DØ Operations".
70. December 2002: Department of Energy, Germantown, Maryland, "DØ Operations".
71. November 2002: ICAR Executive Meeting, Batavia, IL, "Activities at NIU".
72. November 2002: Fermilab Physics Advisory Committee, Batavia, IL, "DØ Report".
73. November 2002: Colloquium, University of Virginia, Charlottesville, VA, "Physics at DØ or How to Explore the Micro-structure of the Universe".
74. October 2002: Illinois Coalition, Chicago, IL, "Fundamental Particle Physics at NIU: Present and Future".
75. October 2002: College of Liberal Arts and Sciences Advisory Council, Naperville, IL, "Fundamental Particle Physics at NIU".
76. June 2002: Invited Plenary Talk, Linear Collider Retreat, Santa Cruz, CA. "University Based Accelerator Research Development".
77. June 2002: Invited Plenary Talk, Fermilab User's Meeting, Fermilab, Batavia, IL. "University Based Accelerator Research Development".
78. April 2002" Invited Plenary Talk, Fermilab Linear Collider Working Group, Batavia, IL. "The Fermilab/NICADD Photoinjector

and a Proposal for a High Brightness Photo-Injector”

79. April 2002: Colloquium and Public Lecture, South Dakota State University, Brookings, SD. “The Four Fundamental Forces and Beyond”.
80. March 2002: Public Lecture, Northern Illinois University, DeKalb, IL. “The Four Fundamental Forces and Beyond”.
81. January 2002: Invited Speaker to the High Energy Physics Advisory Panel, Washington, D.C. “Reactions to the Sub-Panel Report”.
82. October 2001: Colloquium, Northern Illinois University, DeKalb, IL. “From Beams to Bosons”.
83. October 2000: Invited Plenary Talk, DØ Workshop, Fermilab, Batavia, IL, “The DØ Trigger Status”
84. August 2000: Invited Plenary Talk, Proceedings of the Division of Particles and Fields of the American Physical Society, Columbus, Ohio, “A QCD Survey”.
85. January 2000: Invited Plenary Talks, DØ Trigger Workshop, London, U.K., “Workshop Overview and Hardware Status” and “Verification and Vertical Reviews”.
86. October 1999: Invited Talk, CTEQ (The Coordinated Theoretical–Experimental Project on Quantum Chromodynamics), Michigan State University, “The Inclusive Jet Cross Section at all Rapidities”.
87. June 1999: Invited Plenary Talk, DØ Workshop, Seattle, “DØ Trigger Capabilities”.
88. March 1999: Invited Plenary Talk, DØ Upgrade Trigger Workshop, Saclay, Paris, France, “Overview and Issues for The DØ Upgrade Trigger”.
89. March–1999: Invited Plenary Talk, RIKEN-BNL Workshop on Hard Parton Physics in High Energy, Brookhaven National Laboratory, “Jet Production at 630 and 1800 GeV”.
90. October–1998: Seminar, University of Maryland, College Park, MD, “Inclusive Jet and Dijet Production at 630 and 1800 GeV”.
91. July–1998: Invited Parallel Session, International Conference on High Energy Physics, University of British Columbia, Vancouver, B.C. “Inclusive Jet Production at 630 and 1800 GeV”.
92. January–1998: DOE Review of the DØ Upgrade, FNAL, Batavia, IL. “Run II Trigger”.
93. October–1997: Seminar, University of Arizona, Tucson, AZ, “The DØ Trigger”.
94. September–1997: Plenary Speaker, The Tenth IEEE Real–Time Conference, Beaune, France, “The DØ Run II Trigger”.
95. May–1997: Plenary Speaker, The Sixth Conference on the Intersections of Particle and Nuclear Physics, Big Sky, MT, “High Energy Tests of QCD”.
96. March 1997: DØ Upgrade Workshop, Saclay, Paris, France, “The DØ Upgrade Trigger”.
97. March 1997: DOE Review of DØ Upgrade, Fermi National Accelerator Laboratory, “The DØ Upgrade Trigger”.
98. November 1996: Northern Illinois University, DeKalb, IL. “Search for Quark Substructure”.
99. October–1996: Seminar, University of Rochester, Rochester, NY. “The Inclusive Jet Cross Section”.
100. May–1996: Seminar, Brookhaven National Laboratory, Brookhaven, NY. “The Inclusive Jet Cross Section and Dijet Mass Distribution”.
101. May–1996: Seminar, University of Michigan, East Lansing, MI. “The Inclusive Jet Cross Section and Dijet Mass Distribution”.
102. April–1996: Seminar, Columbia University, New York, NY. “The Inclusive Jet Cross Section and Dijet Mass Distribution”.
103. April–1996: Wine and Cheese Colloquium Fermi National Accelerator Laboratory, Batavia, IL. “The Inclusive Jet Cross Section and Dijet Mass Distribution”.
104. March–1996: Parallel Session, The XXXIst Rencontres de Moriond: QCD and High Energy Hadronic Interactions, Les Arcs, France. “The Inclusive Jet Cross Section and Dijet Mass Distribution23-JAN-1997”.
105. February–1996: University Research Associates Review, FNAL, Batavia, IL. “DØ Results for Run I and Expectations from Run II”.
106. February–1996: Northern Illinois University, DeKalb, IL. “High Energy Quantum Chromodynamics with the DØ Detector”.
107. May–1995: University of Buenos Aires, Buenos Aires, Argentina. “QCD and the DØ Detector”.
108. April–1995: Seminar Argonne National Laboratory, Chicago, IL. “Jet Production at Large Rapidity Separation”.
109. March–1995: Plenary Session Les Recontres De Physique De La Vallee D’Aoste– Results and Perspectives in Particle Physics, LaThuile, Italy. “QCD at DØCDF”.
110. January–1995: Director’s Review of the DØ Upgrade, FNAL, Batavia, IL. “Run II Trigger Menu”.
111. January–1995: Opening Address DØ QCD Workshop, Tucson, AZ. “QCD at DØ”.
112. August–1994: Guest Lecturer at the 1994 CTEQ Summer School, Lake of the Ozarks, MO. A two part series on “Jet Production”.
113. May–1994: Director’s Review of the DØ Upgrade, FNAL, Batavia, IL. “The DØ Upgrade Trigger”.
114. November–1993: Colloquium, University of Nebraska, Lincoln, NE. “Results from the Tevatron/DØ”.
115. October–1993: Seminar University of Manchester, Manchester, U.K. “Selected Results from the Tevatron”.
116. October–1993: Seminar University of Liverpool, Liverpool, U.K. “Selected Results from the Tevatron”.
117. October–1993: Seminar University of Oxford, Oxford, U.K. “Selected Results from the Tevatron”.
118. September–1993: Plenary Session DESY, Hamburg, Germany. “Recent QCD Results at Hadron Colliders”.



119. March–1993: Seminar University of Indiana, Bloomington, IN. “Recent QCD and Top Search Results from DØ”.
120. March–1993: Wine and Cheese Colloquium, Fermi National Accelerator Laboratory, Batavia, IL. “Recent Results from DØ”.
121. February–1993: Seminar Florida State University, Tallahassee, FL. “Preliminary QCD/Jet Results from DØ”.
122. February–1993: Seminar University of Maryland, College Park, MD. “Preliminary QCD/Jet Results from DØ”.
123. January–1993: Seminar University of Arizona, Tucson, AZ. “Preliminary QCD/Jet Results from DØ”.
124. November–1992: Parallel Session APS Division of Particles and Fields Batavia, IL. “Dijet Angular Distributions”.
125. November–1992: Seminar Superconducting Supercollider Laboratory, Dallas, TX. “Preliminary QCD/Jet Results from DØ”.
126. April–1992: Seminar Texas Tech., Lubbock, TX. “Structure Functions at DØ”.
127. April–1992: Parallel Session, The First International Conference on Liquid Radiation Detectors, Waseda, Tokyo, Japan. “The Minimum and Heavily Ionizing Components of Particle Showers”.
128. March–1992: Seminar University of California, Riverside, CA. “Structure Functions at DØ”.
129. September–1991: Seminar University of Arizona, Tucson, AZ. “Properties of Electron Drift in Liquid Argon”.
130. September–1991: Seminar University of Arizona, Tucson, AZ. “Structure Functions at DØ”.
131. August–1991: Seminar University of Texas–Arlington, Arlington, TX. “Structure Functions at DØ”.
132. June–1991: Plenary Session, Annual User’s Meeting Fermi National Accelerator Laboratory, Batavia, IL. “The Status and Commissioning of DØ”.
133. May–1991: Seminar University of Maryland, College Park, MD. “Structure Functions at DØ”.
134. April–1991: Seminar University of Michigan, Ann Arbor, MI. “Structure Functions at DØ”.
135. November–1984: Parallel Session APS Division of Particles and Fields, Sante Fe, NM. “Exclusive Scattering at Ninety Degrees in the Center-of-Mass”.

#### **SEMINAR, CONFERENCE and PROFESSIONAL COMMITTEES**

1. Chair, DOE High Energy workshop to establish a roadmap for advance accelerator research, 2016.
2. Member, *DOE High Energy Physics Advisory Panel Subcommittee to Review the U.S. Particle Accelerator School*, 2015.
3. Member, *Public Policy Committee*, American Physical Society, 2014- Present.
4. Member, 2016 International Conference on High Energy Physics planning committee, 2014- 2015
5. Habilitation Defense for Dr. Jan Stark, Laboratoire de Physique Subatomique et de Cosmologie, Grenoble, France. Served on the February 19, 2013 habilitation jury for promotion of Dr. Jan Stark.
6. Member, *Scientific Advisory Committee*, Cockcroft Insitute, Daresbury Laboratory, UK, 2012- Present
7. LHC Theory Initiative Fellowship Selection Committee. Reviewed 20 proposals for postdoctoral fellowships and 12 proposals for graduate student fellowships, 2010
8. Member, *Scintillator R&D Review*, Fermi National Accelerator Laboratory, October 6, 2009
9. Chair, *Review of Americas Region Team for the International Linear Collider*, 2008, 2009, and 2010
10. Chief Referee, *RD42 Subcommittee*. Review of the CERN technical project for development of diamond tracking detectors for future detectors, 2010-2011
11. Referee, *LHCC CMS Subcommittee*. The CMS subcommittee focuses specifically on the performance of the Compact Muon Solenoid experiment, 2009-2011
12. Member, *Large Hadron Collider Committee*. The LHCC reviews the experimental program 4-5 times yearly for the CERN Directorate, 2008-2011
13. Chief Referee of LHCC ATLAS subcommittee, 2008-2009
14. Member, *Program Committee International Linear Collider Workshop*, Hamburg, Germany, 2007
15. Member, *Program Review of LBNL HEP Division*, 2006
16. Member, *Review Panel NSF Large Hadron Collider*, 2006
17. Member, *Physics Department Review, University of Nebraska*, Lincoln, 2006
18. Member, *RIA for Illinois Institutional Research Partners Working Group*
19. Member, *2006 Hadron Collider Physics Conference International Advisory Committee*, 2006
20. Member, *Fermilab University-Accelerator Committee*, 2005
21. Member, *Fermilab Directorates Run II Taskforce*, 2005-2006
22. Member, *2005 Hadron Collider Physics Conference International Advisory Committee*, 2005
23. Member, *Review Panel of the Argonne High Energy Physics Division*, May 12-13, 2004.
24. Member, *Review Panel of the Argonne High Energy Physics Division*, May 6-7, 2003.
25. *Lepton-Photon 2003 Organizing Committee*, 2002–2003, Member of the local LP2003 organizing committee.
26. *FNPL Advisory Committee Meeting*, October 14–15, 2002, Fermilab. Assisted with the organization of the second annual workshop on the Fermilab NICADD photo-injector laboratory.
27. *FNPL Advisory Committee Meeting*, June 23, 2001, Fermilab. Assisted with the organization of the first annual workshop on the Fermilab NICADD photo-injector laboratory.
28. *DØ Annual Workshop*, June 18–July 23, 2000, NIU, DeKalb, IL. A principal organizer of the week long conference to discuss the status and future of the 500 member collaboration.

29. *London DØ Trigger Workshop*, January 6-8, 2000, Imperial College, London U.K. Organized sessions and delivered two lectures on the DØ upgrade trigger.
30. *NIU DØ Trigger Workshop*, October 22, 1999, Northern Illinois University, DeKalb, IL. Organized sessions and edited proceedings of a one day workshop dedicated to design and discussion of the DØ upgrade trigger.
31. *DØ Annual Workshop*, June 27–July 2, 1999, University of Washington, Seattle, Washington. Principal organizer of the week long conference to discuss the status and future of the 500 member DØ collaboration.
32. *QCD in Run II*, March–November, 1999, Fermilab, Batavia, Illinois. Convener of the Jet Algorithm Group which set a standard for Jet Reconstruction at the Fermilab Tevatron.
33. *Paris Trigger Workshop*, March 10–12, 1999, Paris, France. Organized workshop for the DØ trigger effort.
34. *Michigan State DØ Trigger Workshop*, October 15–16, 1998, Michigan State University, East Lansing, MI. Organized sessions and edited proceedings of a two day workshop dedicated to design and discussion of the DØ upgrade trigger.
35. *DØ Collaboration Workshop*, July 7–11, 1998, Fermi National Accelerator Laboratory. Organized, chaired and edited the proceedings of several sessions devoted to development of the DØ upgrade trigger and data acquisition.
36. *DOE Review of US–CMS*, April 7–9, 1998, Fermi National Accelerator Laboratory. Participated in a technical review of U.S. efforts on the CMS collaboration. CMS is one of two experiments approved for the Large Hadron Collider at CERN.
37. *NIU DØ Trigger Workshops*, October 17–18, 1997, Northern Illinois University, DeKalb, IL. Organized sessions and edited proceedings of a two day workshop dedicated to design and discussion of the DØ upgrade trigger. .
38. *DØ Collaboration Workshop*, July 20–26, 1997, University of Indiana, Bloomington, IN. Organized, chaired and edited the proceedings of several sessions devoted to development of the DØ upgrade trigger and data acquisition.
39. *FNAL Computing Needs Assessment*, 1997 Batavia, IL. Member of the FNAL Computing Needs Assessment Review Committee.
40. *DØ QCD Workshop*, 1996 East Lansing, MI. Member of the organizing committee.
41. *Division of Particles and Fields Conference*, 1996 Minneapolis, MN. Convener of the Theoretical QCD Sessions.
42. *DØ QCD Workshop*, January 1995, Tucson, AZ. Member of the organizing committee.
43. *Workshop on Physics at Current Accelerators and the SuperCollider*, 29-31 March, 1993, University of Wisconsin, Madison, WI and June 2-5, 1993 Argon National Laboratory, Argonne, IL. Convener for the Strong Interactions working group.
44. *DØ QCD Workshop*, October 1992, Tucson, AZ. Member of the organizing committee.
45. *DØ Weekly Graduate Student Seminar*, 1989-1992, Fermi National Accelerator Laboratory, Batavia, IL.