DAVID B. KIEDA

PERSONAL DATA

Address:	University of Utah Physics Department 201 James Fletcher Building Salt Lake City, Utah 84112
Phone:	(801) 581–5220 (work) (801) 518–2548 (cell)
Email:	dave.kieda@utah.edu
Born:	Johnson City, New York
Citizenship:	USA

EDUCATION

University of Pennsylvania, Philadelphia (1982–1989)
- Ph.D. in Experimental Astrophysics (February 1989)
- Thesis Title: "Cosmic Ray Composition and Muon Decoherence Near the Knee of the All-Particle Spectrum"
- Advisors: Prof. Kenneth Lande
  Prof. Michael Cherry
  Prof. Raymond Davis, Jr.

Massachusetts Institute of Technology (1978–1982)
- S.B.; Physics
- Thesis Title: "Magnetic Field Effects in Superconductors and SQUIDS"
- Advisors: Prof. M. L. A. MacVicar
  Prof. J. Bostock

APPOINTMENTS

2021–present	Distinguished Professor Department of Physics and Astronomy University of Utah
2013–2023	Dean, The Graduate School University Accreditation Liaison Officer University of Utah
2007–2013	Chair, Department of Physics University of Utah
2002–2021	Professor, Physics Department University of Utah
1996–2002	Associate Professor, Physics Department University of Utah
1990–1996:	Assistant Professor, Physics Department University of Utah
1989–1990:	Research Associate, Physics Department University of Utah
1983–1989:	Research Assistant, Physics Department University of Pennsylvania
1982–83, 1987:	Teaching Assistant, Physics Department University of Pennsylvania
1984:	Instructor, Physics Department South Dakota School of Mines and Technology

MEMBERSHIPS AND PROFESSIONAL AFFILIATIONS

Sigma Xi Scientific Research Honor Society
Fellow, American Physical Society (Astrophysics, Particles and Fields Divisions)
American Astronomical Society
Phi Kappa Phi Honor Society

COURSES TAUGHT

Physics 1980 (Undergraduate Seminar) - Spring 2008-2013
Physics 1970 (Undergraduate Seminar) - Fall 2007-2012
Physics 361 (Electronics I for Instrumentation) - Autumn 1997
Physics 362 (Electronics I for Instrumentation) - Winter 1998
Physics 363 (Electronics III for Instrumentation) - Spring 1998
Physics 3610 (Electronics I for Instrumentation) - Autumn 1998-1999
Physics 3620 (Electronics II for Instrumentation) - Spring 2002-2005, 2010, 2013
Astronomy 3060/Physics 3060 (Introduction to Stellar Astrophysics) - Autumn 2006

Astronomy 4080/Physics 4080 (Introduction to Cosmology) - Autumn 2007, Autumn 2008, Summer 2011
Physics 3719 Undergraduate Research Experience- Summer 2006-2009, Fall 2010-2011
Physics 3740 (Relativity and Quantum Mechanics) - Fall 2003
Physics 3910 (Applied E&M: Physics of Modern Technology) -Autumn 2000
Physics 3920 (Applied Quantum Mechanics: Physics of Modern Technology) -Spring 2001
Physics 545 (Intermediate Quantum Mechanics) - Autumn 1993
Physics 546 (Intermediate Quantum Mechanics II) - Winter 1994
Astronomy 5590/Physics 5590 (Introduction to Stellar Astrophysics) - Autumn 2004, 2006, 2008, Spring 2011
Astronomy 5580/Physics 5580 (Extragalactic Astronomy and Cosmology) - Autumn 2007
Physics 562 (Electronics II for Instrumentation) - Winter 1991-1993, 1995-1997
Physics 563 (Electronics III Computer Interfacing) - Spring 1991-1997
Physics 561 (Electronics I for Instrumentation) - Autumn 1991-1992, 1994-1997
Physics 5610 (Electronics I for Instrumentation) - Autumn 1998-1999
Physics 5620 (Electronics I for Instrumentation) - Spring 1999-2000
Physics 6620 (Electronics II for Instrumentation) - Spring 2002-2006, 2010, 2013
Physics 6950 (Radiation Processes in Relativistic Astrophysics) - Spring 2003
Physics 6950 (Quantum Mechanics and Relativity for Secondary School Teachers)- Spring 2018
MBIOL 7570 (Case studies and Research Ethics) - 2013-2019 (guest-lecturer)
OSHER 675 (The Way Things Work) - Fall 2009
OSHER 163 (Frontiers of Physics and Astronomy) - Spring 2010
OSHER 748 (Six Nobel Prizes, Six Utah Stories) - Spring 2015, Spring 2016, Spring 2018
CMP 3850 (Dark Sky Studies) - Fall 2019, Fall 2020 (guest-lecturer)
Faculty Lecturer, University of Utah Research Education Grant Writing Academy, Deer Valley, Utah
2015, 2016, 2017, 2018, 2019, 2020. 2021

DEPARTMENT COMMITTEES

Graduate Council Seven Year Review Committee 2021-2022
Chairman, Department of Physics and Astronomy, 2007-2013
Postdoctoral Affairs 2016-2017
    Chairman 2016-2017
Program Standards and Assessment 2014-2015
New Building Task Force 2014-2015
Development Task Force 2013-2017
Honors/Awards Committee (Faculty/Staff) 2004-2005, 2006-2007, 2013-2023
    Chairman 2020-2023
Student Service and Student-Faculty Relationships Committee 2001-2002
Astronomy Initiative 2005-2007
Policy Board 1997-1998, 1999-2002, 2003-2004, 2006-2007, 2016-2017
Medical Physics Committee 1995-1999
Electronics Facility Committee 2003-2004
New Building Committee 1996-1997
Curriculum/TA Evaluation Committee 2003-2005
RPT Criteria Review 2006-2007
Honors/Awards Committee (students) 2006-2007
Computer Facilities/Electronics Shop Committee 1997-1998
Ad hoc Committee on Research Faculty (1999-2000)
Ad hoc Committee on Research Faculty Review (2003-2004)
Shop Facilities Committee 1996-1997
    Chairman, 1996-1997
Admissions Committee 1992-1996,1998-2003, 2006-2007
    Chairman 2000-2003
Director of Graduate Studies, Physics Department 2006-2007
Research Council 1990–1994,1998-1999
    Chairman 1991-1994,1998-1999
Graduate Student Counseling 1991–1993,1998-2007
Solid State Faculty Search Committee 1993-1994
Medical Physics Faculty Search Committee 1997-1999
Gamma Ray Astrophysics Faculty Search Committee 1999-2000
    Chairman 1999-2000
Gamma Ray Astrophysics Faculty Search Committee 2002-2003
    Chairman 2002-2003

Solid State Physics Faculty Search Committee 2003-2004
Gamma Ray Astrophysics Faculty Search Committee 2003-2004
    Chairman 2003-2004
High Energy Astrophysics Faculty Search Committee 2004-2005
    Chairman 2004-2005
High Energy Physics Faculty Search Committee 2000-2001, 2005-2006
Masters of Instrumentation Restructuring Committee 1995-1996
Ad hoc Committee on Research Faculty Appointment Policy 2005-2006
Instrumentation Grad Advisor 1998-2000,2001-2007
Colloquium Committee 1990–1991
Space Committee 2000-2004
    Chairman 2003-2004
Futures Committee 2002-2003
    Chairman 2002-2003
Physics Astronomy Observatory Committee 2000-2001
Task Force for Applied Physics (Physics of Modern Technology) Program
    (Undergraduate and Graduate) 1998-2003
Curriculum/TA Evaluation 2003-2004
RPT Committees
    Chairman, Adjunct Faculty 1990-1991
    Chairman, Research Associates 1991-1992, 1993-1995, 1999-2000
    Various Faculty members, 1996-2007, 2014-present
    Chairman, Research Associate Professors 1998-1999

UNIVERSITY COMMITTEES

Distinguished Professor Advisory Committee (2023-2025)
Presidential Task Force on Graduate Student Support (2023)
    Co-chair
Deep Technology Initiative (2023)
University Academic Centers and Institutes Steering Committee (2021-2023)
    Co-chair
Lecturer and Mentor, US-AID/HESSA Pakistan Project (2022-2027)
Chief Global Officer Search Committee (2020-2021)
Project Marmalade (COVID-19) Taskforce (2020-2022)
University Accreditation Steering Committee, Co-Chair (2014-2018), Chair (2018-2023)
University Curriculum Fee Committee (2014-2023)
University Curriculum Policy Review Board (2014-2023)
Academic Senate Graduate Assembly Committee (2019-2020, 2022-2023)
Union Scholarship Committee (2021)
Dean of Flexible Online Learning and
    Continuing Education Search Committee (2019-2020)
Master of Interdisciplinary Studies Study Group
    Co-Chairman (2019-2021)
Academic Senate Centers, Institutes and
    Bureaus Policy Committee:CIB2 (2018-2020)
Campus Budget Advisory Committee (2014-2023)
Graduate Education Study Group (2016-2017)
Graduate Student Support Study Group (2015-2016)
Founder and Co-Chair, Consortium for Dark Sky Studies (2016-present)
Chair, Search Committee, PMST Program Director (2022)
Chair, Search Committee, Associate Dean for Graduate Diversity (2021-2022)
Dean's Search Committee, College of Social Work (2014-2015)
Dean's Search Committee, College of Science (2013-2014)
Dean's Search Committee, College of Architecture and Planning (2013-2014)
Dean's Search Committee, College of Social and Behavioral Science (2013-2014)
Crocker Science Center Executive Committee (2013)
Presidential Taskforce on K-12 Math and Science Preparation (2013-2014)
Search Committee, Senior VP for Academic Affairs (2012-2013)
Advisory Board, Middle East Center (2011-2013)
University Conflict of Interest Committee (2012-2013)

Co-Chair, Search Committee, Associate VP for Faculty (2010-2011)
Chairman, Internal Graduate Review,
Atmospheric Sciences Department (October 2010)
Director, Utah High Energy Astrophysics Institute (2000-2008)
University Research Committee 1992-1995
Chairman 1994-1995
Chairman, Faculty Fellowship Awards 1993-1994
University Research Instrumentation Committee 1994-1995
University RPT Standards Committee 2006-2007
Academic Freedom and Tenure Committee 1995-1998, 2005-2007
Chairman 1997-1998
RPT PPM Revision ad hoc Committee 2002-2005
Academic Policy Advisory Committee 1998-2002
ad hoc Committee for AFTC/FHC/University
Promotion/tenure Review 1998-2002
RPT Task Force 1999-2005
Chairman 1999-2005
Academic Senate 2001-2004, 2006-2009
Library Policy Advisory Committee 2003-2006
Chairman, 2004-2006
Professional Master's of Science and Technology (PMST) Program
Executive Director (2013-2023)
Scientific Instrumentation Track Director 2001-2005, 2006-2007
Executive Committee 2002-2005, 2006-2007, 2013-2023
Curriculum Chairman 2002-2005, 2006-2007
Academic Appeals and Misconduct Committee,
Ethnic Studies Program 2003-2006
Consolidated Hearing Committee 2006-2012
University Standards and Appeals Committee 2006-2009
University Hearing Committee 2006-2012
University Studies Committee 2004-2007

REGIONAL and NATIONAL COMMITTEES/PANELS/SERVICE

Innovations in Graduate Education (IGE)
Hub Advisory Committee
Council of Graduate Schools
2021-2023

Membership Committee
Council of Graduate Schools
2021-2023
Chair (2022-2023)
Forum on Graduate Studies
American Physical Society
Executive Committee
2022-2024
AFRL-UREP Research Program Reviewer
USRA
Houston, TX
February 2022
National Science Foundation
NSF Research Traineeship Review Panel
May 2021
National Science Foundation
Innovations in Graduate Education Review Panel
May 2023
Sloan Foundation Innovation Awards
Physics and Astronomy Panel
November 2020
Particle Astrophysics and Gravitational Panel
Decadal Survey on Astronomy and Astrophysics (Astro 2020)
National Academy of Sciences
Washington, DC
October 2019-2022
National Science Foundation
MPS-AC Physics Frontiers Center Program Review Committee
Sept 2018-July 2019
National Science Foundation
Accelnet Review Panel
May 2020, January 2023
US Department of Energy, LZ Project Independent Review Panel
January 2019
August 2020

National Science Foundation, Extremely Large Telescope (ELT) Review Panel
December 2019, December 2022
National Science Foundation, US Dept of Energy, Vera Rubin Observatory (LSST)
Construction & Operations Review Panel
December 2018
April 2020
April 2023
US Department of Energy, DESI Construction Review Panel
November 2018
US Department of Energy, DESI CD-04 Review Panel
Feb 2018
US Department of Energy, DESI CD-03 Review Panel
May 2016
US Department of Energy, DESI CD-02 Review Panel
July 2015
National Science Foundation Physics Frontiers Center Panel
October 2013, October 2016, May 2017
NASA NICER Observatory
Cycle 3 Review Committee(January 2021)
Cycle 4 Review Committee (January 2022)
NASA NuStar Observatory
Cycle 1 Review Committee(February 2015)
Cycle 2 Review Committee(February 2016)
Review panel Chair
Cycle 4 Review Committee(March 2018)
Review panel Chair
FERMI User's Group Committee (2015-2020)
NASA APRA/SAT Review Panel
June 2014, June 2015, May 2016, March 2021, March 2023
US Department of Energy, Cosmic Frontiers Review Panel
November 2012
November 2013
NASA 2014 Senior Review Panel
April 2014

Chairman/Organizer, AAS Astronomy Chair's Meeting
November 3, 2012
Chicago, IL
NASA PCOS X-Ray Surveyor Study Team (2016-2017)
NASA FERMI (GLAST) Observatory
Cycle 14 Review Committee (April 2021)
Cycle 13 Review Committee (May 2020)
Review Panel Chair
Cycle 12 Review Committee (April 2019)
Cycle 8 Review Committee (April 2015)
Review Panel Chair
Cycle 7 Review Committee (April 2014).
Review Panel Chair
Cycle 6 Review Committee (March 2013).
Review Panel Chair
Cycle 5 Review Committee (April 2012).
Review Panel Chair
Cycle 4 Review Committee (April 2011).
Cycle 1 Review Committee (December 2007)
NASA SWIFT Observatory
Cycle 9 Review Committee (December 2012).
Review Panel Co-Chair
Cycle 7 Review Committee (December 2010).
Review Panel Chair
Cycle 5 Review Committee (January 2009).
Review Panel Chair
Cycle 2 Review Committee (September 2005).
NSF Graduate Research Fellowship Review panel (2014-2023)
NASA SMEX Program
Science Review Panel (March 2008).
NASA MIDEX Program
Chair, Fundamental Physics Science Panel (April 2011)
RXTE Observatory
Cycle 14 Review Committee (October 2009).
Review Panel Chair
Cycle 11 Review Committee (November 2005).
Review Panel Chair
Cycle 10 Review Committee (November 2004).
Cycle 8 Review Committee (February 2003).
NASA Suzaku Observatory
Cycle 1 Review Committee (March 2006).

ICECUBE Observatory
External Review Panel (May 2007)
NASA Compton Gamma Ray Observatory
Cycle 9 Review Committee (July 1999).
Cycle 8 Review Committee (July 1998).
Cycle 7 Review Committee (August 1997).
Cycle 6 Review Committee (June 1996).
Cycle 5 Review Committee (May 1995).
Cycle 4 Review Committee (June 1994).
Workshop on Stellar Intensity Interferometry Astronomy
Co-Chair, Organizing Committee
Ohio State University (CCAP)
Columbus, Ohio
May 2023
26^{th} International Cosmic Ray Conference
Organizing Committee, Co-Chairman (1993-2000).
Session Chair
Salt Lake City, Utah
August 17-25,1999
October 2002 Four Corners APS meeting
Organizing Committee, Chairman (2000-2002).
Salt Lake City, Utah
October 4-5, 2002
October 2018 Four Corners APS meeting
Organizing Committee, Chairman (2016-2018).
Program Committee
University of Utah
Salt Lake City, Utah
October 12-13, 2018
First International Workshop on Air Fluorescence
Organizing Committee (2002).
Salt Lake City, Utah
October 6-8, 2002
Organizer, Southern Utah Observatory Workshop
Salt Lake City, Utah
June 26, 2006
Organizer, Stellar Intensity Interferometry Workshop
Salt Lake City, Utah
January 29-30, 2009

First Light Workshop
Scientific Organizing Committee
Amado, Arizona
April 27-28, 2007

Organizer, AGIS Workshop
Salt Lake City, Utah
November 13-14, 2009

Co-Organizer, SDSS-III/BOSS Collaboration Meeting
Salt Lake City, Utah
March 8-10, 2010

Chairman, Organizing Committee
Snowbird Particle Astrophysics, Astronomy and Cosmology Workshop 2009 (SnowPAC2009)
February 1-7, 2009
Snowbird, Utah

Chairman, Organizing Committee
Snowbird Particle Astrophysics, Astronomy and Cosmology Workshop 2010 (SnowPAC2010)
March 23-28, 2010
Snowbird, Utah

Co-Chairman, Local Organizing Committee
SnowCluster Workshop 2010
March 29- April 2, 2010
Snowbird, Utah

Chairman, Organizing Committee
Snowbird Particle Astrophysics, Astronomy and Cosmology Workshop 2011 (SnowPAC2011)
January 30-Feb 5, 2011
Snowbird, Utah

Co-Chairman, Organizing Committee
Snowbird Particle Astrophysics, Astronomy and Cosmology Workshop 2012 (SnowPAC2012)
March 18-23, 2012
Snowbird, Utah

Co-Chairman, Organizing Committee
Snowbird Workshop on Dark Matter Observations through Gamma Rays 2012 (SnowDOG2012)
March 24-26, 2012
Snowbird, Utah

Co-Chairman, Organizing Committee
Black Hole Fingerprints: Dynamics, Disruptions & Demographics 2013
(SnowPAC2013)
March 17-23, 2013
Snowbird, Utah

Co-Chairman, Organizing Committee
Physics of Galaxy Clusters 2013
(SnowCluster2013)
March 24-29, 2013
Snowbird, Utah

Co-Chairman, Organizing Committee
Signatures of Non-WIMP Dark Matter 2013
(SnowDark2013)
March 22-25, 2013
Snowbird, Utah

Co-Chairman, Organizing Committee
The Gamma-Ray Astronomy Retrospective
(TrevorFest 2013)
October 26, 2013
Tucson, AZ

Co-Chairman, Organizing Committee
Physics of Galaxy Clusters 2015
(SnowCluster2015)
March 15-20, 2015
Snowbird, Utah

Co-Chairman, Local Organizing Committee
The Galaxy-Halo Connection 2016
(SnowPAC 2016)
March 13-18, 2016
Snowbird, Utah

Co-Chairman, Local Organizing Committee
Snowbird Lyman-Alpha Workshop 2017
(SnowCLAW2017)
March 19-24, 2017
Snowbird, Utah

Co-Chairman, Local Organizing Committee
Physics of Galaxy Clusters 2018
(SnowCluster2018)
March 18-23, 2018
Snowbird, Utah

Co-Chairman, Local Organizing Committee
Artificial Light at Night 2018
(ALAN 2018)
November 11-14, 2018
Snowbird, Utah

Chairman, Local Organizing Committee
Utah VERITAS Meeting
Salt Lake City, Utah
June 17-19, 2019

Chairman, Local Organizing Committee
CTA-US Meeting
Salt Lake City, Utah
June 20-22, 2019

Local Organizing Committee
pSCT Telescope Inauguration
Tucson, AZ
Jan 17-18, 2019

Scientific Organizing Committee
VERITAS Ten Year Celebration
Tucson, AZ
Jun 28-29, 2017

Program Committee
4 Corners APS 2009 Meeting
Colorado School of Mines
Golden, CO
October 23-24, 2009

Local Organizing Committee
4 Corners APS 2010 Meeting
Weber State University
Ogden, UT
October 14-15, 2010

Program Committee
4 Corners APS 2011 Meeting
University of Arizona
Tucson, AZ
October 21-22, 2011

Local Organizing Committee
4 Corners APS 2016 Meeting
New Mexico State University
Las Cruces, NM
October 21-22, 2016

Program Committee
4 Corners APS 2017 Meeting
Colorado State University
Fort Collins, CO
October 20-21, 2017
Local Organizing Committee
Program Committee
SACNAS Symposium: Our Disappearing Dark Skies: Lost Dreams and Impacts on Ecology, Environment, and Society
SACNAS 2017 Meeting
Salt Lake City, UT
October 19, 2017
Co-Organizer, Utah HAWC Meeting
Salt Lake City, Utah
February 9-12, 2015
Co-Organizer, Fermi-VERITAS-HAWC Workshop
Salt Lake City, Utah
April 20-22, 2016
Program Committee, Utah Air Fluorescence Workshop
Salt Lake City, Utah
March 4-7, 1996
Chairman, Air Cherenkov Design Group
Giant Airshower Detector Design Group
Fermilab (Batavia, Il 1995)
Organizer, Utah TeV Gamma Ray Workshop
Snowbird, Utah
August 14-16,1999
Organizer, Utah Auger Meeting
Park City, Utah
May 8-13, 1997
Reviewer, Western Governor's University EPIC Standards Panel (2009)
Reviewer, National Science Foundation
Reviewer, Department of Energy
Reviewer, Department of Energy ARRA Program (2009)
Reviewer, Europhysics Letters
Reviewer, Astroparticle Physics
Reviewer, J. Phys. G., Rev. Mod. Phys.
Reviewer, Nature
Reviewer, Classical and Quantum Gravity
Reviewer, Monthly Notes of the Royal Astronomical Society
Reviewer, Annals of the New York Academy of Science
Reviewer, Symmetry

Editorial Board, ISRN Astronomy and Astrophysics (2011-2013)
Editorial Board, Universe (2021-2024)
Associate Editor, Journal of Astronomical Telescopes and Instrumentation (2023-present)
Reviewer, NASA Postdoctoral Fellowship Program (2013-present)
Reviewer, NASA EPSCOR Program
Reviewer, Foundation for Polish Science
Reviewer, Czech Science Foundation
Reviewer, Japan Science Foundation
Reviewer, Dutch Research Council
Reviewer, Civilian Research Development Foundation (CRDF)
Executive Committee, VERITAS Gamma Ray Observatory 1997-2024
    Chair, VERITAS Executive Committee (2012-2014, 2020-2024)
Camera Group Leader, VERITAS project (2005-2008)
Project Engineer, SCT Telescope Project (2012-2025)
VERITAS Upgrade Leader, VERITAS Observatory (2009-2020)
Executive Committee, CTA-US Collaboration (2016-present)
Spokesperson, CTA-US Collaboration (2023-2025)
Intensity Interferometry Science Working Group, CTA Observatory
    Working Group Leader (2019-2020)
    Deputy Working Group Leader (2018).
Session Chair at many conferences
American Physical Society, Four Corners Section
    Past-Chairman (2010-2011)
    Chairman (2009-2010)
    Vice Chair (2008-2009)
    Chair-Elect (2007-2008)
    Executive Committee (2002-2005)
Project ASTRO (Astronomer-teacher partnership for hands-on
    6th grade science education) 1997-2000
ASPIRE Science in Service (WWW-based educational lessons for
    6th-12th grade students) 1997-2000
Judge, Conrad Foundation *Spirit of Innovation Challenge* (2013)
MIT Education Council 1995-2023
Kol Ami School Board 2003-2008
Team Mentor, FIRST Robotics Team 3006 (West High School) 2008-2017
External Advisory Committee, Utah First Robotics
    September 2019-2021
Associate Team Mentor, FIRST Robotics Team (East High School) 2011-2012
College Board Review Panel, AP Physics 1/Physics 2 Standards (2011)

Steering Committee, Canyons School District, National Center for Earth and Space Science Education (NCSSE) November 2010

Short Term Visits to Other Institutions

F. L. Whipple Observatory, Amado, AZ June 2004-August 2004
F. L. Whipple Observatory, Amado, AZ May 2005-August 2006
F. L. Whipple Observatory, Amado, AZ July 2008-August 2008
F. L. Whipple Observatory, Amado, AZ June 2009-August 2009
F. L. Whipple Observatory, Amado, AZ July 2010-August 2010
F. L. Whipple Observatory, Amado, AZ July 2011-August 2011
F. L. Whipple Observatory, Amado, AZ June 2012-August 2012
Alexandria University, Alexandria, Egypt November 2015
University of Arizona, Department of Astronomy
Visiting Scholar (August 2005-August 2006).

Citations and hIndex (Jan 2024)

33873 citations (total)
13300 citations (since 2019)
h-index 84
i-index 261

Honors and Recognition

Distinguished Professor, University of Utah (2021)
Dark Sky Defender Award, International Dark Sky Association (2017)
University of Utah Distinguished Scholarly and Creative Research Award (2013)
Utah Governor's Medal for Science and Technology (2013)
Fellow, American Physical Society (2011)
ASUU Student Choice Teaching Award (2007)

GRANTS AND AWARDS:

Funding Summary

$31.1M in external funding
$2.2M internal funding
$17.7M as PI
$15.6M as Co-PI
$33.3M in total funding

Specific External Funding Awards

"WoU-MMA: Research & Development for the
Southern Wide-Field Gamma-Ray Observatory
(SWGO) Utah Subcontract (Michigan Tech)"
NSF Grant #PHY 2310013
Aug 1, 2023- July 31, 2026 ($89,134)

"Student Travel Support for CCAPP
Stellar Intensity Science Workshop (April 25-28, 2022)"
Oak Ridge Association of Universities
Sep 15, 2021- June 1, 2022 ($4000)

"MRI Consortium: Development of Upgraded Stellar Intensity Interferometry
Instrumentation for the VERITAS Observatory"
NSF Grant #PHY 2117641
Sept .1, 2021-Aug. 31, 2024 ($399,774 NSF, $171,332 UU Matching)

"University of Utah Particle Astrophysics Research Group
Grant (VERITAS, HAWC, CTA)"
NSF Grant #PHY 2111531
Aug 11, 2021-Aug 10, 2024 ($1,200.423)

"Illuminating Dark Skies Studies: A Transdisciplinary Focus on the Disappearing Dark"
W. M. Keck Foundation
January 2019-January 2020 ($250,000)
Co-PI

"MRI Consortium: Development of a Wide Field-of-View Camera
for the Schwartzchild-Couder Gamma-Ray Telescope,"
Utah Subcontract (Barnard College)
NSF Grant #PHY 1821868
Sep 1, 2018-Aug 31, 2021 ($129,875)

"Particle and Gamma-Ray Astrophysics with HAWC/VERITAS (Utah Group Grant)"
NSF Grant #PHY 1807029
Aug 1, 2018-July 31, 2021 ($745,000)

"RAPID Opportunity for U/V band stellar imaging using Intensity
Interferometry with the VERITAS Observatory)"
NSF Grant #AST 1806262
Feb 1, 2018-Jan 31, 2019 ($133,591)

"Gamma-Ray Astronomy and Cosmic-ray Astrophysics with the VERITAS
and HAWC Observatories (University of Utah Group)"
NSF Grant #PHY 1510504
July 15, 2015-July 15, 2018 ($965,205)

"Support for the 2018 SnowCluster Workshop
NSF Grant #AST 1806136
Mar 1, 2018-Feb 28, 2019 ($20,500)

"University of Utah Institutional Membership
Sloan Digital Sky Survey IV"
Willard L. Eccles Foundation
June 2013-June 2018 ($350,000)
"Support for the 2015 SnowCluster Workshop
The Art of Galaxy Cluster Mass Measurement
NSF Grant #AST 1463660
Jan 15, 2015-Dec 31, 2021 ($20,500)
"Support for the 2013 SnowPAC Workshop
NSF Grant #AST 1304046
Jan 1, 2013-Jan 1, 2014 ($8200)
"REU Physics and Astronomy at the University of Utah"
NSF Grant #PHY 1263394
May 1, 2013-May 1, 2015 ($233,433)
"Collaborative research: MRI Consortium: Development of a Novel Telescope
for Very High Energy Gamma-Ray Astrophysics"
UCLA Subcontract of NSF Award
October 1, 2012-October 1, 2015 ($42,000 NSF, $18,000 UU Matching)
"Summer REU Exchange Program
Jazan University, Saudi Arabia
Jun 1, 2012-Aug 1, 2012 ($19905)
"Public Education and Outreach in Astronomy"
Willard L. Eccles Foundation
July 2012-July 2013 ($100,000)
"Gamma Ray Astronomy and Particle Astrophysics (Univ. of Utah Group)"
NSF Grant #PHY 1207595
June 15, 2012-June 15, 2015 ($1,188,000)
"Support for the 2012 SnowPAC Workshop
NSF Grant #AST 1221024
March 1, 2012-March 1, 2013 ($8200)
"Participant Support for 2011 Snowbird Workshop on
Particle Astrophysics, Astronomy, and Cosmology"
NSF Grant #PHY 1108877
February 28, 2011-February 28, 2012 ($8000)
"MRI-R2 Consortium: Development of Improved Instrumentation for the
VERITAS Gamma-Ray Observatory"
NSF Grant #PHY0960242
April 2010-April 2015($1,633,490 NSF,$544,268 UU Matching)
'Utah HAWC Subcontract"
Los Alamos National Lab
December 2009-December 2011 ($20,000)

"Participant Support for 2010 Snowbird Workshop on
Particle Astrophysics, Astronomy, and Cosmology"
NSF Grant #PHY 0959055
September 2009-September 2010 ($5000)

"Participant Support for 2009 Snowbird Workshop on
Particle Astrophysics, Astronomy, and Cosmology"
NSF Grant #PHY 0917846
March 2009-March 2010 ($5000)

"Gamma Ray Astronomy and Astrophysics with the VERITAS Observatory"
NSF Grant #PHY 0856411
July 2009-July 2012 ($999,146)

"University of Utah Institutional Membership
Sloan Digital Sky Survey III"
Willard L. Eccles Foundation
August 2008-August 2012 ($450,000)

"Facilities for Public Outreach with the Southern Utah Observatory"
K. W. Dumke and E. R. Dumke Foundation
July 1, 2007- June 31, 2008 ($160,000)

"VERITAS Operations: Utah Subcontract"
Harvard-Smithsonian Astrophysical Observatory
January 1, 2007 -Sept 30, 2012 ($200,850)

"GeV/TeV Astrophysics Research using the VERITAS Observatory"
National Science Foundation
NSF Grant #PHY 055545
August 1, 2006 -August 31, 2009 ($900,000)

"Proposal to Build a High Altitude Observatory in Southern Utah
for Research and Education"
Willard L. Eccles Foundation
August 2006-August 2009 ($600,000)

"GeV-TeV Gamma Ray Astronomy and Cosmic Ray Physics with Whipple/VERITAS"
National Science Foundation
NSF Grant #PHY 0540962 (supplemental grant)
August 1, 2005 -August 31, 2006 ($29,590)

"GeV-TeV Gamma Ray Astronomy and Cosmic Ray Physics with Whipple/VERITAS"
National Science Foundation
NSF Grant #PHY 0099580
August 1, 2003- August 31, 2006 ($640,001)

"Collaborative International Research on High-Resolution Charge Measurements
with Direct Cherenkov Light
National Science Foundation
NSF Grant #PHY 0244759
August 1, 2003- August 31, 2005 ($85,000)

"Utah-VERITAS Observatory Construction (NSF)"
Harvard-Smithsonian Astrophysical Observatory
July 2003-July 2008 ($606,294)
"Proposal to Develop an Undergraduate Program in
Experimental/Observational Astronomy"
Willard L. Eccles Foundation
October 2000 ($88,000)
"Development and Acquisition of Electronic Instrumentation for VERITAS
Consortium Array of High Energy Gamma-Ray Telescopes"
NSF Major Research Instrumentation Proposal
NSF Grant #PHY 0079704
August 2000-August 2005 ($364,167 NSF, $156,071 UU matching)
"Development of Calibration Systems for the VERITAS Observatory"
Smithsonian (DOE Subcontract)
August 1, 2000-July 1, 2010 ($75,574)
"Proposal to Acquire and Analyze Data from the High-Resolution Fly's Eye Detector"
National Science Foundation
June 1999-June 2002 ($6,328,573)
"Proposal to Support Utah TeV Workshop"
National Science Foundation
September 1999-September 2000 ($5,000)
"Proposal to Support the 26^{th} International Cosmic Ray Conference"
NASA
September 1998-September 2000 ($20,000)
"Proposal to Support the 26^{th} International Cosmic Ray Conference"
International Union of Pure and Applied Physics
September 1998-September 1999 ($14,000)
"Proposal to Support the 26^{th} International Cosmic Ray Conference"
US Department of Energy
September 1998-September 2000 ($20,000)
"Proposal to Support the 26^{th} International Cosmic Ray Conference"
National Science Foundation
NSF Grant #PHY 9708210
September 1997-September 2000 ($30,000)
"Proposal to Operate and Analyze Data from the Dual Imaging
ČerenkovExperiment (DICE)"
National Science Foundation
NSF Grant # PHY 9514193
June 1996-June 1998 ($44,368)

"A New Detection Technique for the Observation of ZeV Cosmic Rays"
National Science Foundation
NSF Grant # PHY 9527421
July 1995- July 1997 ($10,000)
"Supplemental Grant-Science in Service (ASPIRE)"
National Science Foundation
NSF Grant #PHY 9321949
February 1995-April 1998($200,494)
"High-Resolution Gamma Ray Source Observations using Lunar Occultation of Sources observed by the BATSE/GRO Detector.":
NASA Grant #NAG 5-2349
October 1, 1994 - February 15, 1996 ($14,889)
"Staged Construction Proposal for the High-Resolution Fly's Eye Detector"
National Science Foundation
NSF Grant # PHY 9322298
September 1993 - June 1998 ($5,154,829)
"Proposal to Operate and Analyze Data from the HiRes and Fly's Eye Experiments"
National Science Foundation
NSF Grant # PHY 9321949
September 1993 - September 1996 ($3,076,680)
"Constraints on Gamma Ray Burster (GRB) Source Distances Using *GRO/BATSE* Data in Coincidence with Ground-Based UHE Gamma Ray Detectors":
NASA Grant #NAG 5-2349
September 1, 1993 - February 15, 1995 ($16,969)
"A Cosmic Ray Observatory for Ultra-High Energy Processes":
National Science Foundation
NSF Grant # PHY9119278
January 1, 1992 - August 31, 1994 ($1,101,996)
"Construction of a High Resolution (HiRes) Eye Detector":
National Science Foundation
NSF Grant # PHY 9100221
August 1, 1991 - January 31, 1995 ($2,669,000)
NATO travel grant (1988).
National Science Foundation travel grant (1987).

Specific Internal Funding Awards

"University of Utah Institutional Membership
Sloan Digital Sky Survey IV"
University of Utah
June 2013-June 2018 ($350,000)

"Site Selection studies for the Southern Utah Observatory"
University of Utah Research Foundation
Jan 1, 2007- Dec 31, 2008 ($28,000)

"Proposal to Operate the Utah High Energy Astrophysics Institute"
University of Utah Research Foundation
December 2000-December 2005($80,000)

"Proposal for VERITAS Support at the University of Utah"
University of Utah Research Foundation
December 1998-December 2000($31,000)

"University of Utah Auger Project Grant"
University of Utah Research Foundation
April 1997-1998 ($150,000)

"Development of a Variable Analog Delay Line for Analog
Signal Processing on a Single Integrated Circuit Chip"
University of Utah Technology Innovation Grant
July 1996-July 1998 ($75,300)

"Development of Thin Film Quasicrystal Coatings"
University of Utah Technology Innovation Grant
July 1996-July 1998 ($90,000)

"Millard County Educational Outreach for the Auger Project"
U of Utah College of Science
Grant Awarded ($2000) (1996)

"Auger Project Development Proposal"
U of Utah College of Science
Grant Awarded ($30,000) (1996)

University of Utah Teaching Grant, 2009 ($3000)
University of Utah Teaching Grant, 2003 ($3000)
University of Utah Faculty Fellow, 2001-2002

PATENTS/TECHNOLOGY TRANSFER DISCLOSURES:

"Surgical Electric Blade Coated With Quasicrystalline
Thin Films", D. Kieda, Thierry Klein, Orest G. Symko
U. of Utah Technology Transfer Disclosure #U-2070

"AlCuFe Quasicrystal Thin Film Coating of Razor Blades"
Thierry Klein, Orest G. Symko, David Kieda
U. of Utah Technology Transfer Disclosure #U-2097

"Formation and Applications of AlCuFe Quasicrystaline Thin Films"
Orest G. Symko, Thierry Klein and David Kieda
U.S Patent #6,294,030 (issued Sept. 25, 2001)

"Formation and applications of AlCuFe Quasicrystalline Thin Films"
Ehab Abdol-Rahman, Orest G. Symko, Thierry Klein and David Kieda
U.S Patent #6,712,915 (issued March 30, 2004)

"Variable Analog Delay Line for Analog Signal Processing
on a Single Integrated Circuit Chip"
D. Kieda and Michael Salamon,
U. of Utah Technology Transfer Disclosure #U-2282
U.S. Patent #6,222,409 (issued April 24, 2001)

"Resistive Reusable Electrosurgical Return Electrode,"
D. Kieda, R. Fleenor, and J. Issacson
US patent # 6,083,221 (issued July 4, 2000)

"Resistive Reusable Electrosurgical Return Electrode,"
D. Kieda, R. Fleenor, and J. Issacson
European Patent #WO0032122 (issued July 8, 2000)

"Capacitive Reusable Electrosurgical Return Electrode,"
D. Kieda, R. Fleenor, P. Borgmeier and J. Issacson
U.S. patent #6,214,000 (issued April 10, 2001)

"Pressure Sore Pad Having Self-Limiting Electrosurgical Return Electrode Properties and Optional Heating/Cooling Capabilities,"
D. Kieda, R. Fleenor, P. Borgmeier and J. Issacson
U.S. patent #6,544,258 (issued April 8, 2003)
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Canadian Patent #CN1450921 (issued October 22, 2003)
South African Patent #ZA200208241 (issued October 09, 2003)

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European Patent #WO0187175 (issued November 11, 2001)
European Patent #WO03094766 (issued November 20, 2003)

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D. Kieda, R. Fleenor, and J. Issacson
U.S. patent #6,545,764 (issued September 24, 2002)

"Self Limiting Electrosurgical Return Electrode ,"
D. Kieda, R. Fleenor, and J. Issacson
U.S. patent #2003040741 (issued February 27, 2003)
"Capacitive Reusable Electrosurgical Return Electrode,"
D. Kieda, R. Fleenor, P. Borgmeier and J. Issacson
European Patent #WO02058579 (issued August 1, 2002)

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U.S. Patent #6,582,424 (issued June 24, 2003)

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D. Kieda, R. Fleenor, and J. Issacson
U.S. patent #6,666,859 (issued December 23, 2003)
U.S. patent #2003040741 (issued February 27, 2003)
Canadian. patent #CN1452475 (issued October 29, 2003)
British patent #BR0305714 (issued September 28, 2004)
Australian patent #AU769908 (issued February 12, 2004)

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European Patent #WO03094766 (issued November 20, 2003)
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D. Kieda, R. Fleenor, and J. Issacson
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"Pressure Sore Pad Having Self-Limiting Electrosurgical Return
Electrode Properties and Optional Heating/Cooling Capabilities,"
D. Kieda, R. Fleenor, P. Borgmeier and J. Issacson
British Patent #BR0112779 (issued September 9, 2003)

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10. "A Northern Sky Survey For Astrophysical Point Sources of 100 TeV Gamma Radiation," T. McKay *et al.*, *Ap. J.* **417**, 742 (1993).

11. "Observation of the Shadows of the Moon and Sun using 100 TeV Cosmic Rays", A. Borione *et al.*, *Phys. Rev. D* **49**, 1171 (1994).

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13. "Cosmic Ray Energy Spectrum Observed by the Fly's Eye", D. J. Bird *et al.*, *Ap. J.* **424**, 497 (1994).

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18. "A New Technique for the Observation of EeV and ZeV Cosmic Rays", D. B. Kieda, *Ap. Phys.* **4**, 133 (1995).

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INVITED/PLENARY TALKS, COLLOQUIUM and SEMINARS

"Ultra-High Resolution Observations of Visible Stars using the VERITAS Observatory"
Physics Department Colloquium
Idaho State University
Pocatello, ID
November 6, 2023

"Ultra-High Resolution Observations of Visible Stars using the VERITAS Observatory"
Physics Department Colloquium
Weber State University
Ogden, UT
November 1, 2023

"Ultra-high Resolution of Stars using the VERITAS Observatory
Summer Science Camo Seminar
Department of Physics and Astronomy
University of Utah
June 27, 2023

"Ultra-high Resolution of Stars using the VERITAS Observatory
Summer REU Colloquium
Department of Physics and Astronomy
University of Utah
June 13, 2023

"Visible-band observations of nearby stars with sub-milliarcsecond resolution using Stellar Intensity Interferometry"
Quantum-Enhanced Telescopy Workshop
Optica Quantum 2.0 Conference and Exhibition
Denver, CO
June 18, 2023

"The VERITAS SII Northern Sky Survey'
CCAPP Workshop on Stellar Intensity Interferometry
Columbus, OH
May 22, 2023

"Ultra-high Resolution of Stars using the VERITAS Observatory
Summer REU Colloquium
Department of Physics and Astronomy
University of Utah
July 13, 2022

"Accelerating the Mental Health and Well-Being Agenda"
Summer Meeting, Council of Graduate Schools 2022
Minneapolis, MN
July 10, 2022

"Should I Go to Graduate School?"
Graduate Admissions Mini-Expo
University of Utah
June 23, 2022

"Graduate School Considerations for Masters and Doctoral Programs,"
BYU Graduate Career Panel
April 5, 2022

"Improving Graduate Student Health Insurance"
Western Association of Graduate School Annual Meeting 2022
Virtual Meeting
March 22, 2022

"Ultra-high Resolution of Stars using the VERITAS Observatory
Undergraduate Seminar Physics 1970
Department of Physics and Astronomy
University of Utah
February 25, 2022

"Uncovering the origin of highest-energy cosmic rays with the VERITAS gamma-ray observatory,"
Jashore University of Science and Technology
Jamal Nazrul Islam Astronomy Club
Particle Astrophysics Seminar
Jessore, Bangladesh
November 3 , 2021

"Visible-Band Observations of Nearby Stars with Sub-milliarcsecond Resolution Using Stellar Intensity Interferometry,"
International Webinar in Physics
Dept of Physics, Pabna University of Science and Technology
Pabna, Bangladesh
July 8, 2021

"Uncovering the origin of highest-energy cosmic rays with the VERITAS gamma-ray observatory,"
University of Maryland-College Park
Particle Astrophysics Seminar
College Park, Md
April 29, 2021

"Actionable Outcome Data on Graduate Alumni: a discussion with the University of Utah and Academic Analytics,"
Western Association of Graduate School Annual Meeting 2021
Virtual Meeting
March 22, 2021

"Uncovering the origin of highest-energy cosmic rays with the VERITAS gamma-ray observatory,"
Royal Astronomical Society of Canada -Calgary Centre
March 18, 2021

"Graduate School Admissions in STEM fields,"
BYU Graduate Career Panel
November 24, 2020

"Graduate Education in the post-COVID Era,"
Council of Graduate Schools
Future of Research Focus Series
November 10, 2020

"Graduate School Initiatives to work in the COVID era,"
NORC/NSF/CGS Public Panel discussion
October 29, 2020

"Using AI Software to Accelerate Thesis Office Clearance Process"
Western Association of Graduate Schools Annual Meeting
Albuquerque, NM
March 10, 2020

"Rebooting the UU Graduate Tuition Benefits with Faculty Support,"
Western Association of Graduate Schools Annual Meeting
Albuquerque, NM
March 10, 2020

"Status of the CTA Stellar Intensity Interferometry/Optical Transient Working Group,"
CTA Consortium Meeting
Bologna, Italy
Oct 22, 2019

"Towards the development of visible band astronomical imaging with multi-kilometer baselines,"
Physics Department Colloquium
Ohio State University
Columbus, OH
September 3, 2019

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CTA Consortium Meeting
Lugano, Switzerland
June 6, 2019

"Ultra-high Resolution Astronomical imaging using quantum properties of light,"
Physics Department Colloquium
Idaho State University
Pocatello, ID
November 5, 2018

"Ultra-high Resolution Astronomical imaging using quantum properties of light,"
Summer REU Seminar
University of Utah
Salt Lake City, UT
July 25, 2018

"Ultra-high Resolution Astronomical imaging using quantum properties of light,"
Physics Department Colloquium
Georgia Tech University
Atlanta, GA
October 1, 2018

"Ultra-high Resolution Astronomical imaging using quantum properties of light,"
PACIFIC 2018 Particle Astrophysics Meeting
Sapporo, Japan
February 18, 2018

"Ultra-high Resolution Astronomical imaging using quantum properties of light,"
Physics Department Colloquium
Brigham Young University
Provo, Utah
November 29, 2017

"Development of the Quantum Astronomy"
Undergraduate Seminar
University of Utah
Salt Lake City, Utah
September 14, 2017

"Ultra-high Resolution Astronomical imaging using quantum properties of light,"
Summer REU seminar
University of Utah
Salt Lake City, Utah
July 26, 2017

"Using HBT Interferometry for Astronomical Imaging,"
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Snowbird, Utah
January 9, 2017

"Using HBT Interferometry for Ultra-high Resolution Astronomical Imaging"
SCI Institute Department Seminar
University of Utah
Salt Lake City, Utah
November 29, 2016

"Development of the Quantum Astronomy"
Undergraduate Seminar
University of Utah
Salt Lake City, Utah
October 20, 2016

"Recent Advances in Ground-Based Gamma-Ray Particle Astrophysics,"
XLVI International Symposium on Multiparticle Dynamics
(ISMD2016)
Seogwipo, Jeju-do, South Korea
September 1, 2016

"Ultra-High Resolution Astronomical Imaging and Stellar Intensity Interferometry,"
Physics Department Colloquium
University of Alexandria
Alexandria, Egypt
November 21, 2015

"VHE gamma-ray astronomy: The New Window on the Universe,"
Physics department Colloquium
University of Alexandria
Alexandria, Egypt
November 20, 2014

"Promoting Graduate Student Mentorship,"
MRSEC Weekly Seminar
University of Utah
July 14, 2015

"Ultra-High Resolution Astronomical Imaging and Stellar Intensity Interferometry,"
PACIFIC 2014 Conference
Gump Research Station
Moorea, French Polynesia
September 18, 2014

"CTA/Stellar Intensity Interferometry Update,"
Workshop on HBT Interferometry
Observatorie de al Cote d'Azure
Nice, France
May 13, 2014

"Science Possibilities with Very-Low and Ultra-High
Resolution Cherenkov Imaging Arrays,"
Workshop on Non-Imaging Cherenkov Arrays
University of Utah
August 22, 2013

"Cosmic Ray Energy Spectrum & Composition with the DICE Observatory,"
Workshop on Non-Imaging Cherenkov Arrays
University of Utah
August 22, 2013

"Uncovering Pulsar Dynamics and Evolution using VHE gamma-rays,"
Physics Department Colloquium
Idaho State University
April 22, 2013

"Studies of Galactic VHE γ-Ray Origin with VERITAS"
PACIFIC 2012 Conference
Gump Research Station
Moorea, French Polynesia
September 3, 2012

"State of the Department 2012"
Physics Department Colloquium
University of Utah
Salt Lake City, Utah
August 23, 2012

"VHE Gamma-ray Cherenkov Telescopes"
Solar CPV Electrical Power Workshop
SouthWest Solar Technologies
Phoenix, AZ
December 6, 2011

"Intensity Interferometry with Large Light Buckets "
Solar CPV Electrical Power Workshop
SouthWest Solar Technologies
Phoenix, AZ
December 6, 2011

"Gamma-Ray Astronomy and Particle Astrophysics with the VERITAS Observatory"
Physics Department Colloquium
Jazan University
Jazan, Saudi Arabia
February 19, 2012

"State of the Department of Physics And Astronomy"
Physics Department Colloquium
University of Utah
Salt Lake City, Utah
August 25, 2011

"Status of the Department: Fall 2010"
Physics Department Colloquium
University of Utah
Salt Lake City, Utah
August 24, 2010

" Development of a modern stellar intensity interferometry capability using Imaging Air Cherenkov Telescope arrays"
Quantum of Quasars Workshop
Grenoble, France
December 6, 2009

"Status of the Department of Physics"
Physics Department Colloquium
University of Utah
Salt Lake City, Utah
August 20, 2009

"Science Potential of High Altitude Imaging Air Cherenkov Telescope arrays as Intensity Interferometry receivers"
The 1^{st} Workshop on Gamma-Ray Astronomy at High Altitude
Hebei, China
April 28, 2009

"Status of the Department of Physics"
Physics Department Colloquium
University of Utah
Salt Lake City, Utah
August 21, 2008

"Recent Results from the VERITAS Observatory"
IAPS: The High Energy Frontier
Colorado School of Mines
Golden, CO
May 7, 2008

"The Expanding VHE gamma-Ray Horizon"
Physics Department Colloquium
Technion University
Haifa, Israel
February 21, 2008

"The Expanding VHE gamma-ray Horizon"
Physics Department Colloquium
Brookhaven National Laboratory
Upton, NY
July 30, 2007

"Advances in VHE gamma-ray Astronomy"
Aspen Workshop on Cosmic Ray Physics
Aspen Center for Physics
Aspen, CO
April 17, 2007

"VHE Gamma-Rays: The New New Astronomy"
Physics Department Colloquium
Brigham Young University
Provo, Utah
March 28, 2007

"VHE Gamma-Rays: The New New Astronomy"
Physics Department Colloquium
University of Utah
Salt Lake City, Utah
March 9, 2007

"Quantum Mechanics, Extrasolar Planets, and the Expanding Universe"
Undergraduate Seminar
University of Utah
Salt Lake City, Utah
February 15, 2007

"VERITAS Gamma-Rays and First Light"
Graduate Seminar
University of Utah
Salt Lake City, Utah
February 13, 2007

"VERITAS Status"
First GLAST Science Symposium
Stanford University
Palo Alto, CA
February 6, 2007

"VERITAS Status"
VERITAS JOG Review
F.L. Whipple Observatory
Amado, AZ
February 1, 2007

"TeV Gamma Ray Emission in the Cygnus Region"
OIR Division Seminar
Harvard-Smithsonian CfA
Cambridge, MA
January 8, 2007

"Multiwavelength AGN Studies with meter-class Optical Telescope".
Southern Utah Observatory Meeting
University of Utah
Salt Lake City, Utah
June 26, 2006

"Next Generation Particle Astrophysics with GeV/TeV gamma-rays"
International Workshop on US-China Collaboration
Chinese Academy of Science, IHEP
Beijing, China
June 15, 2006

"What I did on My Summer Vacation"
Physics Department Colloquium
University of Utah
Salt Lake City , Utah
November 11, 2004

"TeV Gamma Rays as Probes of Fundamental Physics"
Undergraduate Colloquium
University of Utah
Salt Lake City , Utah
November 11, 2004

"TeV Gamma Rays as Probes of Fundamental Physics"
Physics Department Colloquium
Utah State University
Logan , Utah
March 16, 2004

"c=1: Who needs it?"
HEP Astrophysics Seminar
University of Utah
Salt Lake City , Utah
February 24, 2004

"Searching for Dark Matter and Quantum Gravity with VERITAS"
Undergraduate Seminar
University of Utah
Salt Lake City, UT
September 17, 2003

"Searching for High Energy Cosmic Ray Origin with the ANITA Balloon Experiment"
Physics Department Colloquium
Brigham Young University
Provo, Utah
December 3, 2002

"EHE Cosmic Rays, EHE Neutrinos, and GeV-TeV Gamma Rays
ANITA Collaboration Meeting
University of California-Irvine
Irvine, CA
November 24, 2002

"High Resolution Cosmic ray Studies using Next Generation Observatories"
The Universe viewed in Gamma-rays
ICRR University of Tokyo
Kashiwa, Japan
September 28, 2002

"Gamma Ray Signatures of Dark Matter and Quantum Gravity"
Undergraduate Seminar
University of Utah
Salt Lake City, UT
September 19, 2002

"Particle Astrophysics with GeV/TeV Energy Gamma Rays"
Physics Department Colloquium
Ohio State University
Columbus, OH
March 12, 2002

"High Energy Astrophysics in Utah"
Undergraduate Seminar
University of Utah
Salt Lake City, UT
February 28, 2002

"The Role of Ultra-Heavy Nuclei in PeV
Galactic Cosmic ray Origin"
Institute Seminar
Max Planck Institut fur Kernphysik
Heidelberg, Germany
February 20, 2002

"High-Resolution Cosmic Ray Charge Measurements Using
the Direct Cerenkov Light Technique"
Physics Department Seminar
Konan University
Kobe, Japan
November 30, 2001

"Lightning, Cerenkov Radiation, Neutrino Mixing
and the Origin of Cosmic Rays"
Physics Department Colloquium
University of Utah
Salt Lake City, Utah
September 6, 2001

"High Resolution Measurements of Cosmic Ray composition using the
Direct Cerenkov Technique"
Workshop on High Resolution Measurements of Cosmic Ray Composition
Hamburg, Germany
August 11, 2001

"Origin of the Cosmic Ray Knee: The Ground-Based Perspective"
Snowmass 2001
the future of particle physics
Snowmass, Colorado
July 17, 2001

"Experimental High Energy Astrophysics with the VERITAS Observatory"
INSCC Colloquium
University of Utah
Salt Lake City, Utah
February 14, 2001

"Recent Results from the Whipple Gamma Ray Observatory"
XXXVIth Rencontres de Moriond
Very High Energy Phenomena in the Universe
Les Arcs, France
January 23, 2001

"VERITAS: Very Energetic Radiation Imaging Telescope Array System"
XXXVIth Rencontres de Moriond
Very High Energy Phenomena in the Universe
Les Arcs, France
January 26, 2001

"High Resolution Charge Measurements in Next Generation Ground-based Cosmic Ray Observatories"
Physics Department Seminar
Ohio State University
Columbus, Ohio
November 29, 2000

"High Resolution Charge Measurements in Next Generation Ground-based Cosmic Ray Observatories"
Physics Department Colloquium
University of Utah
Salt Lake City, Utah
August 24, 2000

"High Resolution Charge Measurements for Cosmic Ray Observation Near The Knee of the All-Particle Spectrum"
Workshop on the High Energy Composition of Cosmic Rays
Adler Planetarium
Chicago, Illinois
June 17, 2000

"High Energy Gamma Ray Astrophysics"
Undergraduate Seminar
University of Utah
Salt Lake City, Utah
March 25, 1999

"Cosmic Ray Detectors in Utah"
American Physical Society
Four Corners Meeting
University of New Mexico
April 4, 1998

"Observations of Extraterrestrial/Extragalactic Matter in Utah's West Desert"
Idaho State University
Physics Department Colloquium
February 2, 1998

"Measurement of Primary Composition near the Knee of the
All Particle Spectrum with the DICE Observatory"
University of Utah
Physics Department Colloquium
November 20,1997

"Measurement of Primary Composition near the Knee of the
All Particle Spectrum with the DICE Observatory"
HESS Workshop
Ringberg, Germany
October 2, 1997

"Searching for the Source of Extremely High Energy Cosmic Rays"
Undergraduate Seminar
University of Utah
Salt Lake City, Utah
October 3, 1996

"Gamma Ray Bursts"
Undergraduate Seminar
University of Utah
Salt Lake City, Utah
April 18, 1996

"Cherenkov Light Detection of ZeV Cosmic Rays"
Laboratory for Astrophysics and Space Research Seminar
University of Chicago
Chicago, Illinois
February 21, 1996

"Searching for the Origins of Extremely High Energy Cosmic Rays"
Physics Department Colloquium
University of Arkansas, Little Rock
Little Rock, Arkansas
January 23, 1996

"Searching for the Origins of Extremely High Energy Cosmic Rays"
Physics Department Seminar
Arkansas State University
Jonesboro, Arkansas
January 22, 1996

"The HiRes Fly's Eye and Auger Observatories"
Physics Department Seminar
Arkansas State University
Jonesboro, Arkansas
January 22, 1996

"Nitrogen Fluorescence/Air Cherenkov Techniques for Use in The Auger Project Observatory"
Auger Workshop
24^{th} International Cosmic Ray Conference
Rome, Italy
September 1, 1995

"A New Detection Technique for the Observation of ZeV Cosmic Rays"
Physics Department Colloquium
Stanford Linear Accelerator Laboratory
Stanford, CA
April 3, 1995

"A New Detection Technique for the Observation of ZeV Cosmic Rays"
Giant Airshower Detectors Workshop
Fermilab National Accelerator Laboratory
Batavia, IL
January 31, 1995

"A New Detection Technique for the Observation of ZeV Energy Cosmic Rays"
Physics Department Colloquium
University of Utah Department of Physics
Salt Lake City, UT
November 10, 1994

"The Search for Ultra High Energy Cosmic Rays,"
Friday Science Seminar
Southern Oregon State College
Ashland, Oregon
October 15, 1993

"Search for the Sources of Extremely High Energy Cosmic Rays with the High-Resolution Fly's Eye Detector"
University of California - Irvine
Physics Department Seminar
May 12, 1992

"Search for the Sources of Extremely High Energy Cosmic Rays"
Rutgers University
Physics Department Colloquium
April 30, 1992

"Search for the Sources of Extremely High Energy Cosmic Rays"
University of Maryland
Physics Department Colloquium
April 29, 1992

"The UMC Detectors"
University of Arizona Physics Dept. Seminar
April 30, 1990

"Origins of Ultra High Energy Cosmic Rays"
University of Utah Physics Dept. Seminar
April 24, 1990

"Cosmic Ray Composition and Muon Decoherence at the Knee of the All-Particle Cosmic Ray Spectrum"
University of Pennsylvania
February 16, 1989

"Cosmic Ray Composition and Muon Decoherence Using the Homestake Surface Array and Underground Detectors"
University of Utah Physics Dept. Seminar
June 27, 1988

"First Results from the Homestake Surface-Underground Telescope",
University of Pennsylvania Astronomy Department seminar
April 25, 1986

"Physics Opportunities at the Homestake Gold Mine", South Dakota School of Mines and Technology Physics Department seminars
November 8 and 15, 1984

PUBLIC LECTURES

"Uncovering the origin of highest-energy cosmic rays
with the VERITAS gamma-ray observatory,"
Calgary Public Library Lecture Series
Royal Astronomical Society of Canada
Calgary, Alberta
March 18, 2021

"Working with Raymond Davis Jr. in the 1980's "
Raymond Davis Jr. Memorial Dedication
Sanford Underground Research Facility
Lead, South Dakota
August 26, 2015

"Overview of Astrophysics Research at the University of Utah"
College of Science Lecture
Jazan University
Jazan, Saudi Arabia
February 21, 2012

"US Science Policy and Dr. Strangelove"
Utah Museum of Natural History Film Series
Salt Lake Public Library
Salt Lake City, Utah
November 3, 2010

"Astronomy Research in Utah"
MESA Awards Banquet Dinner
Canyons School District
Sandy, Utah
April 29, 2010

"Status of the University of Utah's Astronomy Program"
Salt Astronomical Society
Salt Lake City, Utah
August 19, 2009

"Astronomy in Utah"
Realms of Inquiry High School
Salt Lake City, Utah
January 21, 2009

"The Reasons for the Seasons"
McGillis Elementary School
Salt Lake City, Utah
December 5, 2007

"High Energy Gamma-Rays: The New Astronomy"
'Science at Breakfast'
College of Science Invited Talk
University of Utah
Salt Lake City, Utah
February 28, 2007

"Finding Extrasolar Planets"
McGillis Elementary School
Salt Lake City, Utah
December 13, 2006

"A Short Story about the Big Bang"
McGillis Elementary School
Salt Lake City, Utah
December 17, 2004

"Ground-based High Energy Gamma-Rays: The New Astronomy"
Salt Lake Astronomical Society
Salt Lake City , Utah
October 28, 2003

"Ground-based High Energy Gamma-Rays: The New Astronomy"
ALCON 2002 Meeting
Salt Lake City , Utah
August 3, 2002

"High Energy Astrophysics in Utah"
'Science at Breakfast'
College of Science Invited Talk
University of Utah
Salt Lake City, Utah
September 19, 2001

"Observations of Our Universe and Cosmic Rays"
Project ASTRO
Libby Edwards Elementary School
Salt Lake City, Utah
May 7,1998

"Observations of Extraterrestrial/Extragalactic Matter
in Utah's West Desert"
University of Utah
College of Science Day
November 22, 1997

"Millard County Water Tank Projects"
Millard County School Board Meeting
Delta, Utah
September 11,1997

" Observations of Extraterrestrial/Extragalactic Matter
in Utah's West Desert (2 lectures)"
University of Utah
College of Science Day
November 16, 1996

" The Auger Cosmic Ray Observatory"
Delta High School
Delta, Utah
October 15, 1996

" The Auger Cosmic Ray Observatory"
Fillmore High School
Fillmore, Utah
October 15, 1996

"The Intermountain West Atmosphere as a National Scientific
Resource"
Utility Restructuring, ZEVs and
Rethinking the Environment of the West:
A Summit on Energy, Economy, and the Environment
Midway, UT
July 12, 1995

"The Highest Energy Cosmic Rays,"
College of Science Day Lecture
University of Utah
Salt Lake City, UT
December 4, 1993

"The Cosmic Ray Observatory at the Dugway Proving Grounds,"
Physics SAC Lecture
University of Utah
Salt Lake City, UT
May 16, 1993

CONTRIBUTED LECTURES

"Strategies for Adequate Graduate Student Stipends"
2023 Western Association of Graduate Schools Meeting
Portland, OR
March 28, 2023

UU Graduate Student and Postdoctoral Parental Leave Initiative
2023 AGS meeting of the AAU
Washington, DC
September 19, 2022

"Performance of the upgraded VERITAS Stellar Intensity Interferometer"
SPIE Astronomical Telescopes + Instrumentation 2022
Montreal, Canada
July 18, 2022

"Measurements of Stellar Diameters using the VERITAS Stellar Intensity Interferometer"
The Sharpest Eyes on The Sky
High Angular Resolution Astronomy Workshop
Exeter, England
April 26, 2022

"The Trinity VHE Neutrino Observatory"
XXVIII Epiphany Conference
Crackow, Poland
January 11, 2022

"Very High-energy Gamma-ray Emission from LSI +61 303 Binary"
37th International Cosmic Ray Conference -DESY
Virtual Meeting
July 2021

"Status of the VERITAS Stellar Intensity Interferometry (VSII) System"
37th International Cosmic Ray Conference -DESY
Virtual Meeting
July 2021

"The VERITAS-Stellar Intensity Interferometry (VSII) survey of Stellar Diameters"
37th International Cosmic Ray Conference -DESY
Virtual Meeting
July 2021

"Recent Science Results from the VERITAS Stellar Intensity Interferometer,"
2021 April meeting of the American Physical Society
Virtual meeting
April 17, 2021

"New Science Results from the VERITAS Stellar Intensity Interferometer,"
237th American Astronomical Society Meeting
Jan 15, 2021

"Sub-milliarcsecond observations of nearby stars in the visible waveband using VERITAS-SII"
235th American Astronomical Society Meeting
Honolulu, HI
Jan 5, 2020

"Characterizing the VHE Emission of LS I +61 303 using VERITAS Observations "
36th International Cosmic Ray Conference
University of Wisconsin-Madison, WI
July 29, 2019

"Searching for Optical Flashes from Extraterrestrial Civilizations with Atmospheric Cherenkov Telescopes"
2019 Astrobiology Science Conference
American Geophysical Union Meeting
Belluvue, WA
June 26, 2019

"Augmentation of VERITAS Telescopes for Stellar Intensity Interferometry "
April Meeting of the APS
Denver, CO
April 14, 2019

"Development of a prototype Schwarzschild-Couder telescope
for the Cherenkov Telescope Array: status and performance"
4 Corners Meeting of the APS
University of Utah
Salt Lake City, UT
October 13, 2018

"Stellar Intensity Interferometric Capabilities of IACT Arrays"
35th International Cosmic Ray Conference
Busan, Korea
August 19, 2017

"Decadal VERITAS Observations of LS I +61 303 :
Detection of constant TeV emission around entire orbit"
35th International Cosmic Ray Conference
Busan, Korea
August 13, 2017

"Stellar Intensity Interferometric Capabilities of IACT Arrays"
230th meeting of the American Astronomical Society
Austin, TX
June 5, 2017

"HBT SII Studies at the University of Utah"
SPIE Astronomical Telescopes and Instrumentation
Edinburgh, Scotland, UK
June 28, 2016

"Experimental steps towards a digital revival of Stellar Intensity Interferometry"
April meeting of the American Physical Society
Salt Lake City, UT
April 17, 2016

"Direct Cherenkov and Trans-Iron Nuclei"
4 Corners meeting of the American Physical Society
Orem, UT
October 18, 2014

"VERITAS post-upgrade γ-ray Sensitivity"
33^{rd} ICRC
Rio de Janiero, Brazil
July 3, 2013

"SCT Commercial Positioners
UCLA SCT Design Workshop
University of California-Los Angeles
Los Angeles, CA
January 14, 2013

"Northern Sites for CTA Observatory"
CTA Meeting
Rome, Italy
October 23, 2012

"CTA/Stellar Intensity Interferometry Update"
CTA Meeting
Amsterdam, Netherlands
May 16, 2012

"Status of the VERITAS Upgrade"
32^{nd} International Cosmic Ray Conference
Beijing, China
August 16, 2011

"Status of the VERITAS Upgrade"
April meeting of the American Physical Society
Irvine, CA
April 30, 2011

"VERITAS Upgrade: Description and Status"
4 Corners meeting of the American Physical Society
Odgen, UT
October 24, 2010

"Development of a Stellar Intensity Interferometric System at StarBase Utah"
4 Corners meeting of the American Physical Society
Golden, CO
October 24, 2009

"Intensity Interferometry with Cerenkov Telescopes (An Introduction)"
IHOT09: The Interferometric View on Hot Stars
ESO conference
Vina Del mar, Chile
March 2, 2009

"VERITAS Measurements of TeV Gamma-ray emission from the
Supernova Remnant IC443"
January 2008 AAS meeting
Austin, TX
January 10, 2008

" Status of the Southern Utah Observatory (SUO) 32-inch Telescope"
Four Corners Meeting American Physical Society
Northern Arizona University
Flagstaff, AZ
October 19, 2007

" A Southern Utah Optical Observatory"
Los Alamos Future TeV Workshop
Los Alamos National Laboratory
Santa Fe, New Mexico
May 12, 2006

"Wide Field of View Surveying in Next-Generation GeV/TeV Observatories"
UCLA Future TeV Workshop
Malibu, California
October 21, 2005

"Wide Field of View Surveying in Next-Generation GeV/TeV Observatories"
Cherenkov 2005 Meeting
Palaiseau, France
April 29, 2005

"Evidence for New Unidentified GeV/TeV γ-ray Sources
from Recent Northern Sky Surveys"
The Universe in Gamma Rays: Heidelberg γ-ray 2004
Heidelberg , Germany
July 25, 2004

"Search for Tibet Array Unidentified Sources Using the Whipple
10 m Gamma-Ray Observatory"
Four Corners APS meeting
Arizona State University
Tempe, AZ
Oct 25, 2003

"Science Capabilities of the VERITAS Array of 10m Imaging Atmospheric
Cherenkov Gamma-Ray Detectors"
Astronomical Telescopes and Instruments SPIE Meeting
Waikoloa, HI
Aug 25, 2002

"High Resolution Charge Measurements of UH Cosmic Ray Nuclei
Using a Direct Imaging Cherenkov Ground-Based Observatory"
Astronomical Telescopes and Instruments SPIE Meeting
Waikoloa, HI
Aug 25, 2002

"Science and Strawman Design of the OCHRE Detector"
OMNIS-OCHRE Meeting
Argonne National Laboratory
Argonne, IL
May 25, 2002

"High Energy Astrophysics with a Direct Cherenkov Light Observatory"
Astrophysics Seminar
Ohio State University
Columbus, OH
March 11, 2002

"High Resolution Cosmic Ray Charge Measurements Using the Direct Cerenkov Light Technique"
4 Corners APS Meeting
New Mexico State University
Las Cruces, New Mexico
November 3, 2001

"PeV and EeV Cosmic Rays"
FORTE Observatory meeting
Los Alamos National Lab
Los Alamos, New Mexico
March 8, 2001

"The Energy Spectrum in the Knee Region from DICE"
26^{th} International Cosmic Ray Conference
Salt Lake City, Utah
August 21,1999

"Measurements of Cosmic ray Composition near the Knee of the All-Particle Spectrum with the DICE experiment"
19^{th} Texas Symposium on Relativistic Astrophysics
Paris, France
December 17, 1998

"Introduction to the Utah 26^{th} International Cosmic Ray Conference"
25^{th} International Cosmic Ray Conference
Durban, South Africa
August 5,1997

"Measurement of Elemental Composition in the Knee region from the DICE detector"
25^{th} International Cosmic Ray Conference
Durban, South Africa
August 1,1997

"Measurement of the Angular Distribution of Cerenkov Photons
Using the DICE Detector
25^{th} International Cosmic Ray Conference
Durban, South Africa
August 1,1997
"Measurement of the Energy Dependence of the Depth of Shower Maximum in the Knee Region from the DICE Detector"
25^{th} International Cosmic Ray Conference
Durban, South Africa
August 1,1997
"Detection Capabilities of a Very Large Array of Atmospheric
Cerenkov Detectors"
25^{th} International Cosmic Ray Conference
Durban, South Africa
August 1,1997
"Measurements of EAS Longitudinal Development with the DICE detector"
25^{th} International Cosmic Ray Conference
Durban, South Africa
July 29,1997
"Electronics Design Requirements for the Auger Nitrogen Fluorescence
Detector
Auger 1997 Spring Meeting
Park City, Utah
May 8,1997
" Recent results from the DICE Detector
Los Alamos National Lab
Workshop of Air Cherenkov Detectors for Fenton Hill
March 13, 1997
"Recent Results from the Dual Imaging Cherenkov Experiment"
VERITAS Workshop
Tucson, Arizona
January 11,1997
"Nitrogen Fluorescence Detector Design Requirements for the
Auger Project"
Auger Project Meeting
San Rafael, Argentina
September 11, 1996
"Air ČerenkovDetectors for the Auger Detector"
Nitrogen Fluorescence Development Workshop
University of Utah
Salt Lake City, Utah
March 5, 1996

"Reliability Issues for the Auger Detector"
Electronics Development Workshop
Fermilab National Accelerator
Batavia, Illinois
February 24, 1996

"A Direct Measurement of the Angular Distribution of ČerenkovPhotons in Extensive Air Showers Using the DICE detector"
24^{th} International Cosmic Ray Conference
Rome, Italy
September 5, 1995

"A New Detection Technique for Observation of ZeV Energy Cosmic Rays"
24^{th} International Cosmic Ray Conference
Rome, Italy
September 4, 1995

"High Resolution Fly's Eye Project"
24^{th} International Cosmic Ray Conference
Rome, Italy
September 1, 1995

"Optimized Resolution of a Solar Panel Add-on Detector for the Auger Project"
Tuesday Afternoon Seminar
Giant Airshower Detectors Workshop
Fermilab National Accelerator Laboratory
Batavia, IL
July 18, 1995

"Solar Panel Detection Technique for Observation of ZeV Cosmic Rays"
Giant Airshower Detectors Workshop
Fermilab National Accelerator Laboratory
Batavia, IL
May 2, 1995

"A Large Atmospheric Imaging Detector for Gamma-Ray Astronomy in the 10 - 500 GeV Energy Range "
International Symposium on Cosmic Ray Physics
Lhasa, Tibet
August 14, 1994

"A New Optical Technique for Daylight Measurements of Cosmic Ray Properties above 10^{19} eV "
International Symposium on Cosmic Ray Physics
Lhasa, Tibet
August 13, 1994

"A New Optical Technique for Daylight Measurements of Cosmic Ray Properties above 10^{19} eV "
Snowmass 94, Particle and Nuclear Astrophysics and Cosmology in the Next Millennium
Snowmass, Colorado
July 11, 1994

"A Dual Imaging Cerenkov Experiment (DICE) for measurement of Primary Composition Near the Knee of the All-Particle Spectrum"
Snowmass 94, Particle and Nuclear Astrophysics and Cosmology in the Next Millennium
Snowmass, Colorado
July 9, 1994

"The High-Resolution Fly's Eye Experiment,"
23^{rd} International Cosmic Ray Conference
Calgary, Alberta Canada
July 29, 1993

"Search for UHE Emission from Gamma Ray Bursters,"
23^{rd} International Cosmic Ray Conference
Calgary, Alberta Canada
July 20, 1993

"Status of the High-Resolution Fly's Eye Prototype Detector,"
American Physical Society Meeting
Washington, DC
April 14, 1993

"The High-Resolution Fly's Eye Detector"
Vulcano Workshop 1992
Vulcano, Italy
May 22, 1992

"Description and Status of the High Resolution (HiRes) Fly's Eye Detector"
22st International Cosmic Ray Conference
Dublin, Ireland
August 14, 1991

"Constraints on High Energy Inelasticity from the Measurement of Extensive Air Shower Development by the Fly's Eye Detector"
22st International Cosmic Ray Conference
Dublin, Ireland
August 14, 1991

"Ultra-High Energy Gamma Ray Astronomy with the High Resolution Fly's Eye Detector"
International Conference on High Energy Gamma Ray Astronomy
Ann Arbor, Michigan
October 5, 1990

"The High-Resolution Fly's Eye"
1990 Summer Study on High Energy Physics
Snowmass, Colorado
June 28, 1990

"New Flux Limits for Deeply Penetrating Particles Observed by the Fly's Eye Detector"
21st International Cosmic Ray Conference
Adelaide, Australia
January 16, 1990

"The Cosmic Ray Primary Composition for $3 \times 10^{13} - 3 \times 10^{15}$ eV using Multiple Muons Observed with the Homestake Liquid Scintillation Detector"
21st International Cosmic Ray Conference
Adelaide, Australia
January 16, 1990

"The Muon Content of Extensive Air Showers with $E \geq 2 \times 10^{17}$ eV"
21st International Cosmic Ray Conference
Adelaide, Australia
January 10, 1990

"Current Prospects for Measurements of Cosmic Rays with Energies Above 10^{19} eV"
Workshop on the NASA Cosmic Ray Program for the 1990's and Beyond
NASA-Goddard Space Flight Center
Greenbelt, MD
November 7, 1989

"Characteristics and Analysis of Data from the Homestake Surface-Underground Telescope"
6^{th} Course of the
International School of Cosmic-Ray Astrophysics
Ettore Majorana Centre
Erice, Italy
April 28, 1988

"Cosmic Ray Composition Measurement with the Homestake Surface-Underground Telescope"
Delaware Valley Regional Astronomy Meeting
University of Delaware
Newark, Del.
October 24, 1987

"Cosmic Ray Composition Near 10^{15} eV: Results from the Homestake Surface-Underground Telescope"
XX^{th} International Cosmic Ray Conference
Moscow, USSR
August 6, 1987

"First Results from the Homestake Surface-Underground Telescope"
American Physical Society Meeting
Washington, D.C.
May 1, 1986