

# FY 2012 Publications

PROGRAM	JOURNALS*		THESES Facility	INVITED TALKS Lab
	Lab	Facility		
Medium Energy Physics	38	7	7	52
Theory	35	12		105
Accelerator Physics	16	1	1	3
Education				2
Engineering				1
FEL	6			7
12 GeV				2
<b>TOTALS</b>	<b>95</b>	<b>20</b>	<b>8</b>	<b>172</b>

\*PEER REVIEWED JOURNALS → Physical Review, Physical Review Letters, Nuclear Physics, Physics Letters, etc.

LAB = Staff members are authors or give the talk    FACILITY = Generated as result of work done at the facility



# FY 2012 Awards

- **2011 World Technology Award of Energy;** Xin Zhao; Accelerator Division. Announced October 2011
- **2011 Ernest Orlando Lawrence Award:** Matt Poelker, Accelerator Division. Announced November 2011
- **APS Fellow** Rolf Ent, Associate Director, Experimental Nuclear Physics. CITATION: For his leadership in advancing the experimental nuclear physics program at Jefferson Laboratory, particularly regarding the study of the transition between quark-gluon and hadronic degrees of freedom. Nominated by: Nuclear Physics (DNP). Announced November 2011.
- **APS Fellow** Robert Edwards, Senior Staff Scientist, Theory and Computational Physics. CITATION: For developing key theoretical, algorithmic and computational methods to enable Lattice QCD to address vital questions in nuclear physics, and in particular the spectrum of excited states and the origin of the nuclear force. Nominated by: Division of Computational Physics. Announced November 2011.
- **APS Fellow** Harut Avagyan, Hall B Staff Scientist, Experimental Nuclear Physics. CITATION: For pioneering studies of Single Spin Asymmetries in electroproduction of hadrons in deep inelastic scattering, providing access to orbital motion of quarks. Nominated by: Group on Hadronic Physics. Announced November 2011.
- **APS Fellow** Naomi C. Makins, University of Illinois, Urbana-Champaign and JLab Physics User. CITATION: For her contributions to our understanding of the transverse quark structure of the nucleon through the study of polarized semi-inclusive deep-inelastic lepton scattering. Nominated by: Division of Nuclear Physics. Announced November 2011.
- **EINN 2011 Poster Contest:** Silvia Pisano, Physics Division. Announced November 2011
- **Chairman of the Istituto Nazionale di Fisica Nucleare (INFN) Nuclear Physics Division:** Mauro Taiuti, Physics Division. Announced December 2011.
- **Japan Atomic Energy Agency (JAEA) Fellowship:** Kenneth Hick, Physics Division. Announced January 2012.
- **2012 JSA Postdoctoral Research Grant:** Sarah Phillips, Physics Division. Announced February 2012



# FY 2012 Awards

- **U.S. Patent No. 8,031,414 B1:** Single Lens Laser Beam Shaper; Chuyu Liu, Shukui Zhangtan; 10/04/2011
- **U.S. Patent No. 8,049,176 B1:** Method and Apparatus for Real Time Imaging and Monitoring of Radiotherapy Beams; Stan Majewski, James Proffitt, Daniel J. Macey, Andrew Weisenberger; 11/01/2011
- **U.S. Patent No. 8,071,949 B1:** High-Resolution Single Photon Planar and SPECT Imaging of Brain and Neck Employing a System of TOW Co-Registered Opposed GAMMA Imaging Heads; Stan Majewski, James Proffitt; 12/08/2011
- **U.S. Patent No. 8,093,840 B1:** Use of Off-Axis Injection as an Alternative to Geometrically Merging Beams in an Energy-Recovering LINAC; David R. Douglas; 01/10/2012
- **U.S. Patent No. 8,130,045 B1:** Digital Self Excited Loop; Trent Allison, Jean Delayen, Curt Hovator, John Musson, Tomaz Plawski; 03/06/2012
- **U.S. Patent No. 8,128,765 B2:** Large Grain Cavities from Pure Niobium Ingot; Ganapati R. Myneni, Peter Kneisel, Tadeu Cameiroi; 03/06/2012
- **U.S. Patent No. 8,138,460 B1:** Radio Frequency Phototube; Amur Margaryan, Karlen Gynashyan, Osamu Hashimoto, Stan Majewski, Linguang Tang, Gagik Marikyan, Lia Marikyan; 03/20/2012
- **U.S. Patent No. 8,183,530 B2:** Positron Emission Tomography and optical tissue imaging; Steven W. Falen, Richard A. Hofer, Stan Majewski, John McKisson, Brian Kross, James Proffitt, Alexander Stolin, and Andrew Weisenberger; 05/22/2012
- **U.S. Patent No. 8,217,596 B1:** Method of Controlling Coherent Synchrotron Radiation-Driven Degradation of Beam Quality During Bunch Length Compression; David Douglas, Christopher Tennant; 07/17/2012
- **U.S. Patent No. 8,217,359 B1:** Collimator with Attachment Mechanism and System; Brian J. Kross, John McKisson, Aleksandr Stolin, Andrew Weisenberger, Carl Zorn; 07/17/2012
- **U.S. Patent No. 8,214,987 B2:** Remote Vacuum or Pressure Sealing device and method for critical isolated systems; James D. Brock, Christopher Keith; 07/17/2012



# FY 2012 Awards

- **Invention Disclosure 1319:** Mold Bomb; Josh Spradin; 10/03/2011
- **Invention Disclosure 1320:** NEG or ENEG Non-Evaporating Getter; Josh Spradin; 10/03/2011
- **Invention Disclosure 1321:** Auto Tuning Wide Spectrum Radiation Source; Josh Spradin; 10/03/2011
- **Invention Disclosure 1322:** Boiler Gettering; Josh Spradin; 10/03/2011
- **Invention Disclosure 1323:** Tunnel Capacitor; Josh Spradin; 11/11/2011
- **Invention Disclosure 1324:** Methods For Making Nanoporous Films & Particles For Various Applications; Josh Spradin; 11/11/2011
- **Invention Disclosure 1325:** Low Energy Nuclear Power; John P. Wallace, Ganapati R. Myneni, Michael J. Wallace; 11/28/2011
- **Invention Disclosure 1326:** Nanostructures as Artificial Crystals for X-Ray Scattering and Monochromatization; Gwyn Williams; 12/14/2011
- **Invention Disclosure 1327:** Device and Method for Simultaneous Imaging with Fast and Slow (Thermal/Cold Neutrons); Vladimir Popov; 01/05/2012
- **Invention Disclosure 1328:** Phoswich Neutron Detector; Vladimir Popov; 01/05/2012
- **Invention Disclosure 1329:** The Use of Small Diameter Boron Nitride Nanotube for Hydrogen Storage; Kevin Jordan; 01/27/2012
- **Invention Disclosure 1330:** Contact Memory Buttons (CMBs) for a fail-safe system and method for Laser Safety Systems; Wesley Moore; 03/15/2012



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- **Invention Disclosure 1331:** Aware Lockout Tagout System; Roy Whitney; 01/27/2012
- **Invention Disclosure 1332:** A Method for Passively Compensating for Temperature Coefficient of Gain in Silicon Photomultiplier Devices; J.E. (Jack) McKisson, Fernando Barbosa; 03/01/2012
- **Invention Disclosure 1333:** Special Hollow Cathodes for Guiding Hydrogen Bubble Movement inside an SRF Cavity during Vertical Electropolishing; Andy Wu; 04/20/2012
- **Invention Disclosure 1334:** Long wavelength and THz imaging single pixel camera; David Hardy; 04/16/2012
- **Invention Disclosure 1335:** Least mean adaptive filter based feed-back control system for vibration suppression and correction FEL cavity optics; David Hardy, John Musson; 04/16/2012
- **Invention Disclosure 1336:** Calibration Methodology for a Dual-ended Readout Silicon Photomultiplier based Depth-of-interaction PET Detector Module; Wenzhi Xi, John McKisson, Andrew Weisenberger; 05/07/2012
- **Invention Disclosure 1337:** A Bunch Length Compression Method for Free Electron Lasers that Avoids Parasitic Compressions; David Douglas, Christopher Tennant, Dinh Nguyen, Guy Wilson, Steve Benson; 05/17/2012
- **Invention Disclosure 1338:** Using silicon photomultipliers to measure neutron dose; Elton Smith, Yi Quiang; 06/29/2012
- **Invention Disclosure 1339:** Overhead Drill Press; Jonathan Joyce; 07/31/2012
- **Invention Disclosure 1340:** Portable Welding Lathe; Jonathan Joyce; 07/31/2012
- **Invention Disclosure 1341:** JDAQ: a Java based software package for multi-channel data acquisition; John McKisson; 07/31/2012



# Conferences, Meetings, Workshops Organized in FY 2012

Conference, Meeting, Workshop, Seminar, Collaboration	Date	Location	Organizer, Chair, Etc.	# Participants	# Institutions
Seminar: "Multiple Parton Dynamics in QCD"	09/26/2011	Jefferson Lab	Xin-Nian Wang, CCNU/Lawrence Berkeley National Lab - Theory Center	30	4
STRONGnet 2011 Workshop on Computational Hadron Physics	10/04/2011 - 10/07/2011	Trento, Italy	Robert Edwards, International Advisory Committee	68	48
Seminar: "Constraining d/u at x=1 with Data at x>1"	10/05/2011	Jefferson Lab	Alberto Accardi, Hampton Univ./Jlab – Theory Center	30	4
The European Spallation Source and the Challenge of Designing its cryomodules	10/06/2011	Jefferson Lab	Committee – Anne-Marie Valente, Alex Bogacz	20	5
ICALEPCS 2011	10/10/2011 -10/14/2011	Grenoble, France	Committee – Matt Bickley	560	223
International Linear Collider (ILC), Superconducting Radio Frequency (SRF) Acceleration, and ILC High-Gradient SRF Cavity R&D at Jefferson Lab	10/13/2011	Jefferson Lab	Committee – Anne-Marie Valente, Alex Bogacz	20	5
Seminar: "New Technologies for Cherenkov Light Detection"	10/14/2011	Jefferson Lab	Thomas K. Hemmick, Stony Brook University – Physics Division	45	7
Seminar: "Process Dependent Sivers Function and Implications for Single Spin Asymmetry in Inclusive Hadron Production"	10/17/2011	Jefferson Lab	Leonard Gamberg, PSU – Theory Center	30	4
Seminar: "Quantifying the Neutron's Meson Cloud with Transverse Charge Densities"	10/19/2011	Jefferson Lab	Christian Weiss, Jefferson Lab – Physics Division	53	10
Colloquium: "The Path to Fusion Energy and the Princeton Plasma Physics Lab"	10/19/2011	Jefferson Lab	M. C. Zarnstorf, Princeton Plasma Physics Lab – Physics Division	47	6



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Seminar: "Aspects of Nucleon Structure From Lattice QCD: Electric Polarizabilities and Strangeness Content" (Lecture 1)	10/21/2011	Jefferson Lab	Michael Engelhart, NMSU – Theory Center	30	4
Seminar: "Atomic Parity Violation and Implications for Searches for Physics Beyond the Standard Model"	10/24/2011	Jefferson Lab	Marianna Safronova, University of Delaware – Theory Center	30	4
Science Series: Proton Therapy-Accelerating Protons to Save Lives –	10/25/2011	Jefferson Lab	Cynthia Keppel, HU Proton Therapy Institute Jan Tyler, Registrar	250	Public Event
Seminar: "Aspects of Nucleon Structure From Lattice QCD: Electric Polarizabilities and Strangeness Content" (Lecture 2)	10/26/2011	Jefferson Lab	Michael Engelhart, NMSU – Theory Center	30	4
APS 2011 Fall Meeting	10/26/2011 - 10/29/2011	East Lansing, MI	Robert McKeown – Chair-Elect; Douglas Higinbotham – Subsession Chair; Glenn Young – APS Member	750	180
Pre-Existing Betatron Motion and Spin Flipping with RF Fields in storage rings.	10/27/2011	Jefferson Lab	Committee – Anne-Marie Valente, Alex Bogacz	20	5
58th AVS International	10/30/2011 - 11/04/2011	Nashville, TN	Chair – Marcy Stutzman, Phil Adderley	~3000	~300-400
9th European Research Conference on Electromagnetic Interactions with Nucleons and Nuclei (EINN 2011 Conference)	10/31/2011 - 11/04/2011	Paphos, Cypress	International Advisory Committee: Larry Cardman, Kees DeJager	65	37



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Science Series: Adventures in Infectious Diseases i.e. viral hemorrhagic fevers – Susan P. Fisher-Hoch, M.D., The University of Texas School of Public Health	11/01/2011	Jefferson Lab	Janet Tyler, Registrar	260	Public Event
Three-part Lecture Series: “Evolution of Transverse Momentum Dependent (TMD) Correlation Functions” PART 1	11/02/2011	Jefferson Lab	Mert Aybat, NIKHEF, The Netherlands – Theory Center	30	4
Three-part Lecture Series: “Evolution of Transverse Momentum Dependent (TMD) Correlation Functions” PART 2	11/04/2011	Jefferson Lab	Mert Aybat, NIKHEF, The Netherlands – Theory Center	30	4
Seminar: Heavy Quarkonia and the Exotics”	11/04/2011	Jefferson Lab	Kamal Seth, Northwestern University – Physics Division	49	7
Seminar: “QCD Factorization and Single-Spin Asymmetry to ep Collision”	11/07/2011	Jefferson Lab	Jianwei Qiu, BNL – Theory Center	30	4
Three-part Lecture Series: “Evolution of Transverse Momentum Dependent (TMD) Correlation Functions” PART 3	11/09/2011	Jefferson Lab	Mert Aybat, NIKHEF, The Netherlands – Theory Center	30	4
Recent Topics in Optical Monitor Development in the KEK	11/10/2011	Jefferson Lab	Committee – Anne-Marie Valente, Alex Bogacz	20	5
Seminar: “Hadron Electric Polarizability From Lattice QCD”	11/14/2011	Jefferson Lab	Andrei Alexandru, GWU – Theory Center	30	4
VAST PDI Conference	11/16/2011 - 11/18/2011	Roanoke, VA	Jan Tyler, Registrar; Brita Hampton, Chair	800	Public Event





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Neutron EDM experiment at ORNL	11/16/2011 - 11/18/2011	Oak Ridge, TN	Glenn Young – Chair	n/a	n/a
Accelerator Production of the Medical Isotope $^{99m}\text{Tc}$	11/17/2011	Newport News, VA	Committee – Anne-Marie Valente, Alex Bogacz	20	5
Seminar: “Sigma Meson Width, Pion Polarizabilities and Roy-Steiner Equations”	11/21/2011	Jefferson Lab	Carlos Schat, Inst. De Fisica de Buenos Aires – Theory Center	30	4
Nuclear Science Advisory Committee Meeting	11/30/2011 - 12/01/2011	Germantown, MD	Allison Lung – Advisory Committee Member	n/a	n/a
Highlights of the 2011 Energy Recovery Linac Workshop	12/01/2011	Jefferson Lab	Committee – Anne-Marie Valente, Alex Bogacz	20	5
Seminar: “Bound States From Lattice QCD”	12/05/2011	Jefferson Lab	Martin Savage, Univ. of Washington – Theory Center	30	4
The Fast Multipole Method in the Different Algebra Framework for Space Charge Field Calculation	12/08/2011	Jefferson Lab	Committee – Anne-Marie Valente, Alex Bogacz	20	5
Review electron–ion collider (eIC) R&D proposals	12/11/2011 - 12/13/2011	Brookhaven, NY	Glenn Young – Reviewer	n/a	n/a
2nd International Workshop on Accelerator-Driven Sub-Critical Systems and Thorium Utilization (ADS)	12/11/2011 - 12/14/2011	Mumbai, India	International Advisory Committee: Andrew Hutton; Program Committee: Ganapati Myneni (Co-Chair), Geoffrey Krafft, Bob Rimmer	163	30
Seminar: “Nucleon Structure From Lattice QCD: Progress and Challenges”	12/12/2011	Jefferson Lab	Sergey Syritsyn, Lawrence Berkeley National Lab – Theory Center	30	4



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OPA EVMS Surveillance Review of BNL	12/2011	Brookhaven National Laboratory	Kelly Krug – Reviewer	n/a	n/a
Seminar: “Neutron Matter as a Composite Bose-Fermi Superfluid”	12/14/2011	Jefferson Lab	Arthur Kerman MIT – Physics Division	43	5
Seminar: “Atom Trap Trace Analysis”	12/16/2011	Jefferson Lab	Zheng-Tian Lu, University of Chicago – Physics Division	44	8
Seminar: “Study of Effective Field Theories on Low Energy QCD”	01/04/2012	Jefferson Lab	Lingyun Dai, Peking University – Theory Center	30	4
Seminar: “Unitary Multichannel Parameterization of Partial-Wave Amplitudes for pi N Reactions”	01/09/2012	Jefferson Lab	Manoj Shrestha, Kent State University – Theory Center	30	4
Seminar: “A New Interpretation for the $D_{s2}^*$ (2573), the Prediction of Novel Exotic Charmed Mesons and Narrow $N^*$ , $\Lambda^*$ Resonances Around 4.3 GeV ”	01/11/2012	Jefferson Lab	Raquel Molina, Univ. Valencia, Italy – Theory Center	30	4
Seminar: “Coupled-Channel Bethe-Salpeter Approach to Pion-Nucleon Scattering”	01/11/2012	Jefferson Lab	Maxim Mai, Bonn Univ., Germany – Theory Center	30	4
ILC ML & SCRF Technical Review Meeting	01/19/2012 - 01/20/2012	Tsukuba, Japan	Rongli Geng , Session Chair	44	13
Neutron EDM experiment at ORNL	01/23/2012	Baltimore MD	Glenn Young, Chair	n/a	n/a
Science Series: Volcanoes in Virginia - Dr. Elizabeth B. Johnson, James Madison Univ.	01/24/2012	Jefferson Lab	Jan Tyler, Program Manager	280	Public Event
EVMS Review at Argonne National Laboratory	01/2012	Argonne National Laboratory	Dennis Miner – Reviewer	n/a	n/a



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Seminar: "Time-like Compton Scattering"	02/06/2012	Jefferson Lab	Jakub Wagner, Inst. for Nuclear Research, Warsaw – Theory Center	30	4
INT Workshop on Orbital Angular Momentum in QCD	02/06/2012 - 02/17/2012	Seattle, WA	W. Melnitchouk, C. Weiss (organizers)	48	33
INT 12 – 49W Orbital Angular Momentum in QCD Workshop	02/06/2012 - 02/17/2012	Seattle, WA	Organizer: Christian Weiss, Wally Melnitchouk	48	35
Science Series: Living & Working in the Freezer - Dr. Victoria Hill, Old Dominion Univ.	02/07/2012	Jefferson Lab	Jan Tyler, Program Manager	200	Public Event
Facility for Rare Isotope Beams (FRIB) PMAC Meeting	02/07/2012 - 02/09/2012	East Lansing, MI	Allison Lung – PAC Member	n/a	n/a
Nb3Sn and Superconducting Radio Frequency Cavities: Its Potential, and Lessons from Bulk, Thin Film and Wire Fabrication	02/16/2012	Jefferson Lab	Committee – Anne-Marie Valente, Alex Bogacz	20	5
Accelerator Review Committee - KEKB Review	02/17/2012 - 02/23/2012	Tsukuba, Japan	Andrew Hutton - Chair Bob Rimmer - Committee	100	7
Seminar: "Finite-t Corrections to Hard Off-Forward Reactions," Vladimir Braun, Regensburg Univ.	02/20/2012	Jefferson Lab	Theory Center	30	4
Review of the Deep Underground Science & Engineering Lab (DUSEL)	03/00/2010 - 10/00/2011	Various locations	Allison Lung – Reviewer	n/a	n/a
RF Deflectors: Options for 12 GeV CEBAF	03/01/2012	Jefferson Lab	Committee – Anne-Marie Valente, Alex Bogacz	20	5



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Seminar: "Delivering Full Longitudinal Polarized Beam to Multiple Halls"	03/02/2012	Jefferson Lab	Jay Benesch – Physics Division	39	4
Seminar: "Time-Reversal Violation in the Nucleon and Light Nuclei"	03/05/2012	Jefferson Lab	Bira van Kolck, Univ. of AZ – Theory Center	30	4
ICFA Workshop on Future Light Sources (FLS2012)	03/05/2012 - 03/09/2012	Jefferson Lab	LOC: George Neil, chair; Steve Bensen, Michael Kelley. Local Scientific Program Committee: Steve Benson, Chair, Pavel Evtushenko, Fay Hannon, Michael Kelley, Chris Tennant, Gwyn Williams, Todd Satogata	151	63
Seminar: "Selected Spectroscopy Results from the BaBar Experiment"	03/07/2012	Jefferson Lab	Veronique Ziegler – Theory Center	30	4
Varian Medical Systems Past, Present, and Future	03/08/2012	Jefferson Lab	Committee – Anne-Marie Valente, Alex Bogacz	20	5
Workshop on Twin Approaches to Confinement Physics	03/12/2012 - 03/15/2012	Jefferson Lab	Michael Pennington, Chair	32	20
FRIB MSU Independent CD 2/3A Readiness and Cost Assessment at Michigan State University	03/12/2012 - 03/16/2012	East Lansing, MI	Rebecca Yasky – Reviewer	n/a	n/a
Seminar: "Nucleon Resonances from DCC Analysis of EBAC @ Jlab for Confinement Physics"	03/14/2012	Jefferson Lab	T. S. Harry Lee, Argonne National Lab. – Physics Division	43	5
The Paul Trap Simulator Experiment: Studying Transverse Beam Dynamics in a Compact Laboratory	03/15/2012	Jefferson Lab	Committee – Anne-Marie Valente, Alex Bogacz	20	5



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Seminar: "Compton Scattering and the Energy-Dependence of Nucleon Polarizabilities"	03/19/2012	Jefferson Lab	Harald Griesshamer, GWU – Theory Center	30	4
Seminar: "The Hagedorn Spectrum: Theory and Practice"	03/21/2012	Jefferson Lab	Thomas Cohen, Univ. of MD – Theory Center	30	4
Effects of Impurities on the Superheating Field of Type-II Superconductors	03/22/2012	Jefferson Lab	Committee – Anne-Marie Valente, Alex Bogacz	20	5
Seminar: "Nuclear Symmetry Energy and Evolution of Proto-Neutron Star"	03/26/2012	Jefferson Lab	Gang Shen, LANL – Theory Center	30	4
Workshop on Non-perturbative Color Forces in QCD	03/26/2012 - 03/28/2012	Philadelphia, PA	Michael Pennington, Christian Weiss (organizer); Kostas Orginos, Michael Pennington (Int'l. Advisory Comm.)	32	20
Temple University Non-Perturbative Color Forces in QCD (NPCFiQCD2012)	03/26/2012 - 03/28/2012	Philadelphia, PA	International Advisory Committee: Mike Pennington; Local Organizing Committee: Eugene Chudakov, Mark Jones, Christian Weiss	32	20
XX International Workshop on Deep-Inelastic Scattering and Related Subjects (DIS Conference)	03/26/2012 - 03/30/2012	Bonn, Germany	International Advisory Committee: Rolf Ent, Hugh Montgomery	293	186
Seminar: "DIRC Detectors: from BaBAR to PANDA and Beyond"	03/27/2012	Jefferson Lab	Jochen Schwiening, GSI Darmstadt, Germany – Physics Division	21	4
Seminar: "The Center Vortex Model for Nonperturbative Strong Interaction Dynamics"	03/28/2012	Jefferson Lab	Michael Engelhardt – Theory Center	30	4



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Partial Wave Analysis Workshop	03/28/2012 - 03/29/2012	Beijing, China	Michael Pennington - Organizing Committee)	33	15
Seminar: "Partial Wave Analysis Using Graphics Cards"	03/30/2012	Jefferson Lab	Theory Center – Niklaus Berger	30	4
APS Meeting	03/31/2012 - 04/02/2012	Atlanta, GA	Robert McKeown: Chair Session Chair: Wally Melnitchouk, Volker Burkert	1366	
ECT* Workshop on Beautiful Mesons and Baryons on the Lattice	04/02/2012 - 04/06/2012	Trento, Italy	William Detmold (organizer)	26	22
Seminar: "Strong Top Quark Dynamics in the LHC Era,"	04/04/2012	Jefferson Lab	Elizabeth Simmons, MI State University – Theory Center	30	4
Seminar: "Clues to New Quark Behavior"	04/06/2012	Jefferson Lab	Jin Huang, Los Alamos National Lab – Physics Division	34	3
Workshop on Physics with Secondary Hadron Beams in the 21st Century	04/07/2012	GWU/Ashburn, VA	Michael Pennington – Local Organizer	21	12
Seminar: "Measurement of the Parity Violation Asymmetry in Deep Inelastic Scattering"	04/13/2012	Jefferson Lab	Xiaochao Zheng, Univ. of Virginia – Physics Division	53	5
2012 Beam Instrumentation Workshop (BIW12)	04/15/2012 – 04/19/2012	Newport News Marriott Newport News, VA	John Musson, Todd Satogata – Local Organizing Committee	134	53
Neutron EDM experiment at ORNL	04/15/2012 - 04/16/2012	Germantown, MD	Glenn Young – Chair	n/a	n/a
Lehman Review of NSLS II	04/16/2012	Holtsville, NY	Will Oren – Reviewer, Bill Merz - Reviewer	27	10



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DOE Review of the NSLS-II Project	04/16/2012 - 04/19/2012	Suffolk County, NY	Rebecca Yasky – Reviewer	n/a	n/a
Sixth International Conference on Quarks and Nuclear Physics (QNP2012)	04/16/2012 - 04/20/2012	Paris, France	International Advisory Committee: Volker Burkert	248	136
Curriculum Review of the Survey Engineering Program	04/20/2012 – 04/21/2012	Big Rapids, MI	Will Oren – Panel member	25	18
Seminar: “Finding New Dynamics following Gary Larson's ‘Far Side’ cartoon: ‘Do not jump on conclusions - wait to hear what he was told by the Indians’”	04/23/2012	Jefferson Lab	Ikaros Bigi, Univ. of Notre Dame – Theory Center	30	4
The Goubau Line – A Virtual Beam for Testing of Beam Instrumentation Beyond 1 GHz	04/23/2012	Jefferson Lab	Committee – Anne-Marie Valente, Alex Bogacz	20	5
LBNL Engineering Division Review	04/23/2012 – 04/24/2012	Berkeley, CA	Will Oren – Reviewer	20	6
ES&H Director’s Workshop	04/23/2012 – 04/24/2012	Jefferson Lab	Mary Logue – Chair, Organizer	40	18
12th FLUKA Course and Workshop	04/30/2012 - 05/04/2012	Jefferson Lab	Chair: Alberto Fasso Local Organizing Committee: George Kharashvili, Vashek Vylet	42	24
Seminar: “Nab, a New Precise Study of Neutron Beta Decay at SNS”	05/04/2012	Jefferson Lab	Dinko Pocanic, Univ. of Virginia – Physics Division	49	7
All Hands' Meeting 2012 USQCD Collaboration Meeting	05/04/2012 - 05/05/2012	Fermi Lab	Robert Edwards (Organizer)	57	29



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CW and High Average Power RF Workshop	05/08/2012 - 05/11/2012	Port Jefferson, NY	Rick Nelson – Scientific Committee member	60	21
Seminar: “Nuclear Condensates at High Density,”	05/09/2012	Jefferson Lab	Theory Center – Paulo Bedaque, Univ. of MD	30	4
European X-FEL Machine Advisory Committee Meeting	05/09/2012 - 05/10/2012	Hamburg, Germany	Committee – John Mammoser		
QCD Evolution Workshop	05/14/2012 - 05/17/2012	Jefferson Lab	Alexei Prokudin, Chair; Anatoly Radyushkin, Ian Balitsky, Leonard Gamberg, Harut Avakian – Theory Center	47	26
BNL Review EIC R&D	05/17/2012 - 05/18/2012	Brookhaven, NY	Glenn Young – Chair	n/a	n/a
Surface Impedance of Superconducting Radio Frequency (SRF) Materials	5/17/2012	Jefferson Lab	Committee – Anne-Marie Valente, Alex Bogacz	20	5
Seminar: “The Spin Structure of the Nucleon: A Phenomenological Introduction and the Most Resent Results” Franco Bradamante,	05/18/2012	Jefferson Lab	Trieste Univ. and INFN, Italy – Physics Division	43	5
Seminar: “High Energy QCD Factorization in DIS and pA Collisions,”	05/18/2012	Jefferson Lab	G. Chirilli, LBNL – Theory Center	30	4
International Particle Accelerator Conference	05/20/2012 - 05/25/2012	New Orleans, LA	Committee – Todd Satogata, Andrew Hutton	1,201	371
Seminar: “Ab Initio Calculations of Light-Ion Fusion Reactions,”	05/21/2012	Jefferson Lab	Sofia Quaglioni, LLNL – Theory Center	30	4





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Seminar: "Generalized Parton Distributions of the Photon,"	05/25/2012	Jefferson Lab	Asmita Mukherjee, Indian Inst. of Tech., Bombay, India – Theory Center	30	4
Seminar: "From QCD to ab initio Nuclear Structure With Point Nucleons and Back Again"	05/25/2012	Jefferson Lab	James Vary, Iowa State Univ. – Physics Division	44	4
Eleventh Conference on the Intersections of Particle and Nuclear Physics (CIPANP 2012)	05/29/2012 - 06/03/2012	St. Petersburg, FL	Scientific Advisory Committee: Hugh Montgomery, Robert D McKeown Organizing Committee: Rolf Ent, Wally Melnitchouk; Convener to Session: Eugene Chudakov; Session Chair: Roger Carlini	414	202
Seminar: "Transverse Spin Structure of the Pion and Nucleon"	05/30/2012	Jefferson Lab	Hyun-Chul Kim, Univ. CT – Theory Center	30	4
Jefferson Lab Advanced Study Institute on Techniques of Amplitude Analysis	05/30/2012 - 06/13/2012	Williamsburg, VA	Michael Pennington - Organizer; Peng Guo, Veronique Ziegler - Discussion Leaders	37	21
Overview of Accelerator R&D and Status of FEL Program at Shanghai Light Source	05/31/2012	Jefferson Lab	Committee – Anne-Marie Valente, Alex Bogacz	20	5
12th International Workshop on Meson Production, Properties and Interaction (Meson 2012)	05/31/2012 - 06/05/2012	Krakow, Poland	Advisory Committee: Larry Cardman	208	72
Seminar: "Interpolation Between Instant Form and Front Form in Relativistic Hamiltonian Dynamics,"	06/04/2012	Jefferson Lab	Chueng Ji, NCSU – Theory Center	30	4



# Conferences, Meetings, Workshops Organized in FY 2012

Conference, Meeting, Workshop, Seminar, Collaboration	Date	Location	Organizer, Chair, Etc.	# Participants	# Institutions
27th Hampton University Graduate Studies Program	06/04/2012 - 06/22/2012	Jefferson Lab	Theory Center	23	15
Transverse-to-Longitudinal Phase-Space Exchange: Recent Experiments and Future Applications	06/07/2012	Newport News, VA	Committee – Anne-Marie Valente, Alex Bogacz	20	5
Seminar: “Search for the Standard Model Higgs Boson at LHC”	06/08/2012	Jefferson Lab	Andrey Korytov, Univ. of Florida – Physics Division	47	8
Berlinpro Machine Advisory Committee	06/11/2012 - 06/13/2012	Berlin, Germany	Committee- Andrew Burrill, Geoffrey Krafft		
18 <sup>th</sup> Real-Time Conference (IEEE – RT 2012)	06/11/2012 - 06/15/2012	Berkeley, CA	Scientific Advisory Committee: David Abbott, Graham Heyes	208	128
From Nucleon Structure to Nuclear Structure and Compact Astrophysical Objects (KITPC)	06/11/2012 - 07/20/2012	Beijing, China	International Organizer - Jian-Ping Chen	184	
Generation IV Advanced Nuclear Systems and Role of MYRRHA as Waste Transmutation R&D Facility	06/14/2012	Jefferson Lab	Committee – Anne-Marie Valente, Alex Bogacz	20	5
The Linear Accelerator for the MYRRHA ADS	06/14/2012	Jefferson Lab	Committee – Anne-Marie Valente, Alex Bogacz	20	5
Seminar: “Recent STAR Results on the Gluon Polarization and W Production Program in Polar- Ized $p+p$ Collisions at RHIC”	06/15/2012	Jefferson Lab	Bernd Surrow, Temple University – Physics Division	43	9
International Workshop on New Partial Wave Analysis Tools for Next Generation Hadron Spectroscopy Experiments (ATHOS 2012)	06/20/2012 - 06/22/2012	Camogli, Italy	Michael Pennington (organizer)	72	40



# Conferences, Meetings, Workshops Organized in FY 2012

Conference, Meeting, Workshop, Seminar, Collaboration	Date	Location	Organizer, Chair, Etc.	# Participants	# Institutions
Seminar: "Nucleon Electromagnetic Form Factors and Spin"	06/22/2012	Jefferson Lab	Gerald Miller, Univ. of Washington – Physics Division	55	10
30th International Symposium on Lattice Field Theory	06/24/2012 - 06/29/2012	Cairns, Australia	David Richards, Will Detmold (Int. Advisory Committee)	286	136
Elba XII Workshop (Electron-Nucleus Scattering XII)	06/25/2012 - 06/29/2012	Elba, Italy	Rocco Schiavilla (organizer)	40	37
LCLS II CD-2 Director's Review	06/25/2012	SLAC	Will Oren – Reviewer	9	25
KITPC Program "From Nucleon Structure to Nuclear Structure and Compact Astrophysical Objects"	07/02/2012 - 07/20/2012	Beijing, China	Michael Pennington (organizer)	184	37
International Workshop on Hadron Structure and QCD: From Low to High Energies	07/04/2012 - 07/08/2012	Gatchina, Russia	Anatoly Radyushkin (Int. Advisory Comm.)	113	51
Experimental and Theoretical Aspects of the Proton Form Factors (OLYMPUS Symposium)	07/09/2012 - 07/11/2012	Saint Petersburg, Russia	Program Committee: Michael Kohl	28	16
Geant4 Tutorial	07/09/2012 - 07/13/2012	Jefferson Lab	Paul Gueye – Chair Mark Ito, Benedikt Zilmann – Local Organizing Committee	113	39
4th Workshop Hadron Physics in China and 12 GeV JLab Opportunities	07/14/2012 - 07/20/2012	Beijing, China	International Advisory Committee: Hugh Montgomery, Robert McKeown Speaker – Allison Lung	85	41
7th SRF Materials Workshop	07/16/2012 - 07/17/2012	Jefferson Lab	Charlie Reece – Chair and Convener Gigi Ciovati – Local Organizing Committee, Speaker, Convener Peter Kneisel – Speaker	69	25



# Conferences, Meetings, Workshops Organized in FY 2012

Conference, Meeting, Workshop, Seminar, Collaboration	Date	Location	Organizer, Chair, Etc.	# Participants	# Institutions
DOE Review of the STAR HFT Project	07/16/2012 - 07/18/2012	Brookhaven, NY	Glenn Young – Reviewer	n/a	n/a
4th Workshop on Hadron Physics in China and Opportunities in US	07/16/2012 - 07/20/2012	Beijing, China	Co-Chair of Organizing Committee: Jian-Ping Chen; International Advisory Committee: Robert McKeown, Hugh Montgomery	84	43
5th International Workshop on Thin films and New Ideas for Pushing the Limits of RF Superconductivity	07/18/2012 - 07/20/2012	Jefferson Lab	Chair- Anne-Mariel Valente-Feliciano, Organizing Committee – H. Larry Phillips, Charles Reece, Rongli Geng, Joshua Spradlin, Xin Zhao	69	29
Computational Nuclear Physics	07/23/2012 - 07/24/2012	SURA, Washington, DC	Robert Edwards and David Richards (organizers)	48	23
DOE Detector R&D Laboratory Research Review	07/23/2012 - 07/26/2012	Rockville, MD	Glenn Young – Reviewer	n/a	n/a
14th International Workshop on Neutrino Factories, Super Beams and Beta Beams (NuFact 2012)	07/23/2012 - 07/28/2012	College of William & Mary (*one day at Jefferson Lab)	Local Organizing Committee: Alex Bogacz (Co-Chair), Robert McKeown, Robert Rimmer	156	86
QWeak Collaboration	08/01/2012 – 08/03/2012	Vancouver, Canada	Local Organizer: Willem van Oers; Chairs: Roger Carlini, Shelley Page	23	
Seminar: “Spin-Dependent Neutron Structure Functions and Moments From 3He Data,”	08/01/2012	Jefferson Lab	Jacob Ethier, Stetson University – Theory Center	30	4
Seminar: “New Formulation of Target Mass Corrections to Nucleon Structure Functions,”	08/01/2012	Jefferson Lab	Matthew Brown, AZ State Univ. – Theory Center	30	4



# Conferences, Meetings, Workshops Organized in FY 2012

Conference, Meeting, Workshop, Seminar, Collaboration	Date	Location	Organizer, Chair, Etc.	# Participants	# Institutions
Seminar: "Consistency Constraints on Pion Momentum Distributions in the Nucleon,"	08/01/2012	Jefferson Lab	Khalida Hendricks, NCSU – Theory Center	30	4
Seminar: "Extraction of Twist-4 Matrix Elements From Nuclear Structure Function Data,"	08/01/2012	Jefferson Lab	Michael Freid, W&M – Theory Center	30	4
Activities of Superconducting RF Accelerators at Nanjing University	08/02/2012	Jefferson Lab	Committee – Anne-Marie Valente, Alex Bogacz	20	5
INT Summer School on Lattice QCD for Nuclear Physics	08/04/2012 - 08/24/2012	Seattle, WA	David Richards (organizer)	57	41
Gordon Research Conference on Photonuclear Reactions	08/05/2012 - 08/10/2012	Holderness, NH	Discussion Leader: Latifa Elouadrhiri, Wally Melnitchouk, Patrizia Rossi, Volker Burkert, Douglas Higinbotham, Robert McKeown	108	
7th International Workshop on Chiral Dynamics	08/06/2012 - 08/10/2012	Jefferson Lab	Mike Pennington (Int. Adv. Comm.); Jose Goity, Jian-ping Chen (Co-Chairs); Robert Edwards, Rocco Schiavilla (Organizing Committee); Alexander Deur, Patricia Sovignon	142	89
Annual Meeting of the IUPAP Working Group (WG-9) Committee on International Cooperation in Nuclear Physics (ICNP)	08/17/2012 - 08/18/2012	Toshima-Ku Tokyo, Japan	Committee Member: Hugh Montgomery	29	41
Nucleon Resonance Structure in Exclusive Electroproduction at High Photon Virtualities (EmNN*2012)	08/13/2012 - 08/15/2012	Columbia, SC	Local Organizing Committee: Viktor Mokeev (co-chair), Volker Burkert, Christian Weiss (Organizer)	34	18



# Conferences, Meetings, Workshops Organized in FY 2012

Conference, Meeting, Workshop, Seminar, Collaboration	Date	Location	Organizer, Chair, Etc.	# Participants	# Institutions
Physics Opportunities @ an Electron Ion Collider (POETIC)	08/20/2012 - 08/22/2012	Bloomington, IN	Organizing Committee: Wally Melnitchouk	51	28
20th International IUPAP Conference on Few-Body Problems in Physics	08/20/2012 - 08/25/2012	Fukuoka, Japan	Rocco Schiavilla (Int. Advisory Comm.)	Not available	Not available
SRF Activities at CERN	08/21/2012	Jefferson Lab	Committee – Anne-Marie Valente, Alex Bogacz	60	10
Seminar “Heavy Quarkonium Production at Hadron Colliders”	08/24/2012	Jefferson Lab	Physics Division – Prof Guangda, Peking Univ., China	47	5
DOE/HEP Review	08/28/2012 - 08/30/2012	Chicago, IL	Leigh Harwood, Reviewer	n/a	n/a
Seminar: “Gluon TMDs at LHC and RHIC,”	08/29/2012	Jefferson Lab	Marc Schlegel, Univ. of Tuebingen, Germany – Theory Center	30	4
First Mediterranean Thematic Workshop on Advanced Molecular Brain Imaging with Compact High Performance MRI Compatible PET and SPECT Imagers - Potential for a Paradigm Shift	08/30/2012 - 09/02/2012	Tagormina, Italy	Advisory Committee: Drew Weisenberger	53	35
Seminar: “Looking Forward in pA@LHC,”	09/05/2012	Jefferson Lab	Mark Strikman, Penn State – Theory Center	30	4
NSAC Subcommittee Meeting	09/07/2012 - 09/08/2012	Germantown, MD	Allison Lung – Advisory Committee Member	n/a	n/a
LINAC 2012	09/09/2012 - 09/14/2012	Tel Aviv, Israel	Organizing Committee – Geoff Krafft	317	118
CD-1 Review of the LBNE Project	09/24/2012 - 09/27/2012	Chicago, IL	Rebecca Yasky – Reviewer	n/a	n/a

