

Division of Nuclear Physics

The American Physical Society

Newsletter No. 175 February 2013

TO: Members of the Division of Nuclear Physics, APS FROM: Benjamin F. Gibson, LANL – Secretary-Treasurer, DNP

ACCOMPANYING THIS NEWSLETTER:



Future Deadlines

- 22 February 2013 APR13 Early Registration
- 1 March 2013 Mentor & Service Award Nominations
- 10 March 2013 APR13 Housing Reservation
- 1 April 2013 DNP Nominations for APS Fellowship

The home page for the Division of Nuclear Physics is now available at "http://dnp.aps.org." Information of interest to DNP members -current research topics, deadlines for meetings, prize nominations, forms, and useful links are provided. Comments and suggestions are solicited. Please send them to Michael Thoennessen at <dnpweb@nscl.msu.edu>

1. RESULTS OF ELECTION: OFFICERS AND EXECUTIVE COMMITTEE FOR 2012

By the deadline date of 21 January 2013, 799 web ballots or properly identified paper ballots were cast in the election of officers and members of the Executive Committee. The results of the election are as follows: John F. Wilkerson was elected as Vice-Chair and Benjamin F. Gibson was elected as Secretary-Treasurer for one-year terms. George Fuller, Haiyan Gao and Michael Thoennessen were elected to two-year terms on the Executive Committee. The counting of the paper ballots was done by Kay Grady, of LANL. The members of the 2013 Executive Committee, who assume their duties at the APS April Meeting in Denver, are as follows:

Berndt Mueller, Duke Univ., Chair (2013)

Ani Aprahamian, Univ. of Notre Dame, Chair –Elect. (2013) John F. Wilkerson, Univ. of North Carolina, Vice Chair (2013) Robert D. McKeown, JLab, Past-Chair (2012) Benjamin F. Gibson, LANL, Sec.-Trea. (2013) Wick C. Haxton, Univ. of Calif., Div. Coun. (Dec. 2013) George Fuller, Univ. of Calif. San Diego (2014) Haiyan Gao, Duke Univ. (2014) I-Yang Lee, LBNL (2013) Sanjay Reddy, Univ. of Washington (2013) Michael Thoennessen, Michigan State Univ. (2014) Sherry J. Yennello, Texas A&M (2013)

The DNP wishes to thank each of the members who agreed to stand for election. The DNP depends entirely on volunteers to carry out the business of the Division.

2. CALL FOR DNP COMMITTEE SUGGESTIONS

The terms of some of the members of the following DNP committees expire in April 2013: Dissertation, Fellowship, Nominating, Home Page, and Education. Suggestions from the DNP membership for new members of these committees as well as the APS Bethe, Bonner, and Feshbach Prize Committees are welcome and should be sent to Berndt Mueller. A list of committee members for 2013/14 will be published in the August newsletter.

3. NSAC NEWS

The Nuclear Science Advisory Committee (NSAC) met on 28 January to receive the report of the "Tribble sub-committee", which was charged with defining how best to implement the priorities of the 2007 Long Range Plan (LRP) under various constrained budget scenarios. The presentations from that meeting are available on the URL

<u>http://science.energy.gov/np/nsac/meetings/ [science.energy.gov]</u> Please click first on the webcast link. The full report of the subcommittee will become publicly available when NSAC votes to accept it in a final version. That is anticipated by the first of February.

INSIDE ...

- DNP13 in Newport News, VA
- APR13 in Denver
- Call for Fellows Nominations
- DNP 2012 CEU Participants

4. NEW DNP FELLOWS

The following DNP members are newly elected (2012) Fellows of the APS. Please join us in offering congratulations.

John Arrington, Argonne Natl. Lab. Elke-Caroline Aschenauer, Brookhaven Natl. Lab. Silas Beane, New Hampshire Univ. Carlos A. Bertulani, Texas A&M Univ., Commerce Jeffrey C. Blackmon, Louisiana State Univ. Nora Brambilla, Tech. Univ. Muenchen Paul Cottle, Florida State Univ. Vincenzo Cirigliano, Los Alamos Natl. Lab. Donal Day, Univ. of Virginia Paul Deyoung, Hope College Jens Dilling, TRIUMF Huan Z. Huang, Univ. of California, Los Angeles Yuri Kovchegov, Ohio State Univ. Paul Mantica, Michigan State Univ. Jie Meng, Peking Univ. Takaharu Otsuka, Univ. of Tokyo Achim Schwenk, Technical Univ. of Darmstadt Richard Seto, Univ. of California, Riverside

Iain W. Stewart, Massachusetts Inst. of Technology David C. Shiner, Univ. of North Texas Robert Svoboda, Univ. of California, Davis Marc Vanderhaeghen, Johannes Gutenberg Univ. Ivan Vitev, Los Alamos Natl. Lab. Zhengguo Zhao, Univ. of Science & Tech. of China

5. APS MEETING IN DENVER, CO, 13-16 APRIL 2013

The APS April Meeting gathers particle physicists, nuclear physicists, and astrophysicists to share new results and insights. April Meeting 2013 scientific sessions and ancillary activities will take place at the Sheraton Denver Downtown Hotel. The Sheraton is part of Denver's 16th Street Pedestrian Mall – a pedestrian walkway encompassing 12 blocks of shopping, dining, and entertainment with complimentary shuttles.

The April Meeting will offer its usual outstanding scientific program of three plenary sessions (nine plenary talks), approximately 75 invited sessions, more than 100 contributed sessions, and poster sessions.

Seventeen units (five divisions, five forums, and six topical groups) will participate:

Divisions

- * Astrophysics (DAP)
- * Computational Physics (DCOMP)
- * Nuclear Physics (DNP)
- * Particles and Fields (DPF)
- * Physics of Beams (DPB)

Forums

- * Education (FEd)
- * Graduate Student Affairs (FGSA)
- * History of Physics (FHP)
- * International Physics (FIP)
- * Physics and Society (FPS)

Topical Groups

- * Energy Research and Applications (GERA)
- * Few-Body Systems (GFB)
- * Gravitation (GGR)
- * Hadronic Physics (GHP)
- * Plasma Astrophysics (GPAP)
- * Precision Measurement & Fundamental Constants (GPMFC)

The deadline for discounted hotel reservations is 10 March 2013. The American Physical Society has contracted with the Sheraton Denver Downtown Hotel (Meeting Headquarters) for discounted room blocks for APS April Meeting attendees. To receive the April Meeting room rate you must use the APS Online Reservation Link on the April Meeting APS housing web page. Do not contact the Sheraton directly!

The deadline for early bird discounted registration rates is 22 February 2013. Late registration closes on 15 March. On-site registration opens 13 April.

The DNP owes a debt of gratitude to those who volunteered to sort abstracts on 18 January, led by Ani Aprahamian: John Arrington, Agnes Mocsy, and Simin Mahmoodifar.

6. NOMINATIONS FOR APS FELLOWSHIP

The procedure for the election of a Member to Fellowship is outlined in the Membership Directory of the APS under "Constitution and Bylaws," or can be found under Fellowships on the APS Home Page. Only web nominations are accepted. The total number of members who may be elected to Fellowship in a given year is one half of one percent of the total APS membership.

The DNP deadline is 1 April. Nomination instructions can be found on the APS home page (http://www.aps.org); link to "Fellowships" under the heading "Programs".

The 2013 DNP Fellowship Committee is comprised of R. E. Tribble (Chair), B. W. Filippone, M. Lisa, H. Schatz, and G. C. McLaughlin. The Fellowship Committee reviews the nominations for APS Fellowship referred to the DNP and recommends a slate of candidates, which is forwarded to the APS Fellowship Committee and then to the APS Council for approval. Nominations remain active for two years.

It is important for nominators to ensure that the cases that they prepare for the Fellowship Committee are well documented. In addition to that requested on the nomination form, information such as lists of invited talks, awards, professional activities, committee services, and participation in organization of conferences is very helpful. Inclusion of a complete publication list is highly recommended.

The DNP has adopted the following Fellowship Criteria Guidelines. To be chosen as a Fellow, an APS member should have a record of excellence in research that has been sustained over several years, and have completed at least one major, original work that has influenced his/her specialty in a significant way. The APS requires membership for at least the prior year.

The list of APS Fellows elected in a given year appears on the APS Home Page in December and is published in the March issue of APS News. The names of newly elected DNP Fellows are published in the February Newsletter and the awards are presented at the DNP Business meeting held during the APS April Meeting.

7. CEU PROGRAM AT DNP12, W. Rogers

The 2012 Conference Experience for Undergraduates, held concurrently with the October DNP12 meeting in Newport Beach, had a total of 137 participants from more than 70 institutions around the country and abroad. The students, their institutions, and their sponsors are listed at the end of this newsletter. The CEU website is http://physics.westmont.edu/ceu/

8. DNP 2012 FALL MEETING IN NEWPORT BEACH, CA

The 2012 Newport Beach fall meeting had a registered attendance of more than 650, including 137 CEU students. Because of the space requirements for the Mini-Town Meetings, attendance at the banquet was limited to 175. Bethany Ehlmann of Caltech and JPL provided a banquet talk on the Mars Rover Curiosity mission. Richard Seto and his Local Organizing Committee performed superbly in organizing the scientific meeting, as the program ran very smoothly at the Hyatt Regency Newport Beach.

Three Workshops on 1) "Instrumentation Beyond the Standard Model", 2) "And Here Be Dragons: Understanding the Nature of Unstable Isotopes", and 3) "New Results in Spin Physics from Polarized Proton Bams at RHIC & New results in Heavy Ions" were held on Wednesday morning. The Plenary session entitled "Nuclear Physics at International Facilities" followed during Wednesday afternoon. Featured were talks by Johanna Stachel (Heidelberg) on heavy ion physics at the LHC, Hideto En'yo (RIKEN) on nuclear physics in Japan, Guethner Rosner (FAIR) on nuclear physics in Europe, and Nigel Smith (SNOLAB) on the status of underground laboratories. An opening reception was held following the Plenary session.

Invited speaker sessions highlighted each of the eight morning and afternoon scientific time slots. Five mini-symposia were organized by members of the DNP Program Committee. An awards session was highlighted by the Mentoring Award talk by Michael Thoennessen (MSU) on his mentoring career and by Gang Shen (U Washington), winner of the Dissertation Award in Nuclear Physics. Two special CEU lectures were held during the meeting, in addition to the CEU poster session on Thursday afternoon. The "Physical Review C" and "Physical Review Letters" Meet-the-Editors reception was held in parallel with the CEU poster session. Additionally, an ice cream social and a graduate school information session were held for the CEU students. A pizza function was organized by Richard Seto and members of the Education Committee for the graduate students. A Teachers Day program was organized on Saturday by Maria Simani of the California Science Project.

Community Mini-Town Hall meetings to provide input to the NSAC subcommittee chaired by Robert Tribble were held on Thursday evening in place of the usual User Group meetings: 1) Nuclear Structure/Astrophysics, 2) Hadronic Physics, 3) Relativistic Heavy Ion Physics, and 4) Fundamental Symmetries and Neutrinos. A traditional DNP Business and Town Hall Meeting was held on Friday afternoon, which included a summary of the Mini-Town Hall Meetings from Thursday evening. At the Business Meeting, Robert A. Eisenstein was presented with the DNP Distinguished Service Award. Following the Business/Town Hall proceedings, DNP members adjourned to a cash bar reception and the Banquet.

9. FUTURE DNP FALL MEETINGS

2014	October 14-18	Waikaloa, HI
2015	October 28-31	Santa Fe, NM

The dates include the premeeting workshops, which are normally held in conjunction with the DNP Fall Meetings. Holding workshops at the DNP Fall Meetings is a tradition that began with the 1986 Vancouver meeting. All meeting attendees are welcome and encouraged to come. It has been the intention of the DNP Executive Committees that these "workshops" should have broad appeal, with introductory pedagogical talks for the benefit of those who have come primarily for the DNP meeting but want to take the opportunity to learn about a field of specialty of the local community.

10. FUTURE APS SPRING MEETING INFORMATION

2013	Apr 13-16	Denver, CO
2014	Apr 5-8	Savannah, GA
2015	Apr 11-14	Baltimore, MD

Any comments/suggestions should be sent to APS Director of Meetings, Terri Gaier (gaier@aps.org).

11. DNP FALL MEETING IN NEWPORT NEWS, VA 23-26 OCTOBER 2013, L. Elouadrhiri

The Annual Fall Meeting of the Division of Nuclear Physics of the American Physical Society will be held 23-26 October 2013 at the Marriott Hotel and Conference Center, City Center in Newport News, Virginia. Three topical workshops will be held on Wednesday morning followed by the opening plenary session on Wednesday afternoon.

Hotel

All conference meetings and sessions will be held at the Marriott Hotel and Conference Center. A block of rooms has been reserved for meeting participants. Information and registration will be available on the conference web site, which will be linked to the DNP meetings page http://www.aps.org/units/dnp/meetings/

Venue

First referred to as 'Newportes Newes' as early as 1621, this tidal area near the mouth of the James River is purported to be the longest continuously named place in the US. Today, Newport News is Virginia's fifth largest city and home to the Thomas Jefferson National Accelerator Facility (Jefferson Lab). The modern city was founded by Collis Huntington, a builder of the nation's first transcontinental railroad. He also launched the Newport News Shipyard and Dry Dock Company, today the nation's sole designer, builder and refueler of nuclear-powered aircraft carriers and one of only two companies capable of designing and building nuclear-powered submarines.

Called by some "the new downtown," City Center at Oyster Point exemplifies New Urbanism at its best, with an eclectic, high-density mix of office, residential and retail areas. Unique shops and distinctive restaurants are within easy open-air walking distance – and all just a mile from Jefferson Lab.

In addition, Newport News is 20 minutes by car from the historic triangle of Yorktown, Jamestown and Williamsburg.

Transportation & weather

Newport News is served by the Newport News-Williamsburg International Airport (about 10 minutes from the hotel), the larger Norfolk International Airport (30 minutes away) and the Richmond International Airport (60 minutes away). Information concerning ground transportation will be located on the conference web site. October is Virginia's driest month, so you can expect clear blue skies and bright fall colors.

Registration

Registration will be handled via the web by Complete Conference Coordinators, Inc. Registration will open following the APRIL Meeting. A link will appear on the conference web site, and an e-mail announcement will be distributed

Abstracts

Abstracts for the meeting must be submitted electronically through the APS. The deadline will be 1 July 2013. An email broadcast will be made when the abstract submission web site is open, following the APS APRIL Meeting, and a link will appear on the conference web site.

Meeting Preview

The meeting format will follow that initiated with the 2008 Oakland Meeting and continued in 2010 (Santa Fe), in 2011 (East Lansing) and 2012 (Newport Beach). Wednesday morning will be devoted to three workshops focused on research interests of the Local Organizing Committee. The Wednesday afternoon Plenary Session is being organized by incoming DNP Chair Berndt Mueller. A reception will be held that evening. Parallel two-hour scientific sessions will follow on Thursday, Friday, and Saturday morning, comprised of an invited speaker session, possible mini-symposia, and multiple contributed paper sessions. On Thursday afternoon the CEU poster session will take place along with a Physical Review Meet-the-Editors reception. On Friday afternoon, the final time slot will be devoted to the DNP Business and Town Meetings. That will be followed by a cash bar reception and a banquet. On Thursday evening there will be opportunities for User Group meetings and later that evening there will possibly be a general interest lecture. DNP 2012 will close at 12:30 on Saturday, following the second of the two scientific sessions that morning.

Local Organizing Committee

Latifa Elouadrhiri¹(Chair), David Armstrong², Eric Christy³, Douglas Higinbotham¹, J. Wallace Van Orden^{1,4} and Christian Weiss¹

¹Jefferson Lab, ²College of William & Mary, ³Hampton University, ⁴Old Dominion University.

12. 2013 NATIONAL NUCLEAR PHYSICS SUMMER SCHOOL, P Petrecsky

The 2013 National Nuclear Physics Summer School (NNPSS) organized by Brookhaven National Laboratory and Stony Brook University will be held 15-26 July 2013 at Stony Brook University in Stony Brook, New York. Graduate students and postdocs, within a few years of their PhD, with a strong interest in experimental and theoretical nuclear physics, are invited to apply to the school. Lectures at the school will be pedagogical reviews of both theoretical and experimental nuclear physics research programs and will cover a broad range of topics including perturbative and non-perturbative QCD, hadron structure and spin physics, heavy ion physics, nuclear structure and reactions, nuclear astrophysics, fundamental symmetries and neutrinos.

The school will consist of ten days of lectures, special topics seminars and discussions, a trip to Brookhaven National Laboratory and a number of social activities. It is an excellent opportunity for future researchers to get a broad perspective on current research in the field of nuclear physics. The school is also a useful venue for them to interact closely in person with the lecturers and other students from diverse backgrounds.

Program details are available on the school web site:

http://www.int.washington.edu/NNPSS/2013.

Applications can be submitted on-line at:

http://www.int.washington.edu/NNPSS/2013/APPLICATION.html The deadline for applications and reference letters is: 15 April 2013.

The school can accommodate 50 applicants . For accepted applicants, the school will cover most of the local expenses. Participants will be responsible for their own travel costs and extracurricular expenses. Inquiries should be sent to anne@bnl.gov.

The organizing committee: is Abhay Deshpande, Joanna Kiryluk, Peter Petreczky, Anne Sickles, Paul Sorensen, Derek Teaney, Raju Venugopalan, and Michael Zingale. The 2013 NNPSS is sponsored by Brookhaven National Laboratory, the Institute for Nuclear Theory, the National Science Foundation, the RIKEN-BNL Research Center, and Stony Brook University

13. PHYSICAL REVIEW NEWS, C. Wesselborg

Five new "Physical Review C" Editorial Board members were appointed to three-year terms starting 1 January 2013 by the "Physical Review" Editor-in-Chief Gene Sprouse:

Nicolae S. Carjan	NIPNE-RO/CENBG-FR (Joint)
Dinko Pocanic	University of Virginia
Patrick H. Regan	University of Surrey
Paul R. Sorensen	Brookhaven National Laboratory
Ramona Vogt	Lawrence Livermore National Laboratory

On behalf of the nuclear physics community, the PRC editors thank the departing Editorial Board members for their service: K. Blaum, J. Nico, R. Seto, D Srivastava, and J. Tostevin

14. E-MAIL ADDRESS INFORMATION REQUESTED

The APS membership directory is online through the APS Web site (http://www.aps.org). Check your own address information. Despite being computer literate authors — more than 90% of the submissions to *Phys. Rev. C* are compuscripts — DNP members do not outshine their fellow APS members in registering their e-mail addresses. Although 95% of the DNP members do have an e-mail address listed with the APS, all are not current. Is yours?

Membership information can be updated by sending an e-mail message to "membership@aps.org" or directly on the Web. Log on to the directory with your password and click on Add/Modify to change your information.

15. ANNUAL REVIEWS OF NUCLEAR AND PARTICLE SCIENCE

Ordering Procedure: Orders should be sent directly to: Annual Reviews, Attn: Clarette Tupper, Customer Service, 4139 El Camino Way, P. O. Box 10139, Palo Alto, CA 94303-0139 (e-mail: ctupper@annualreviews.org). DNP membership that entitles one to the DNP discount will be verified through the DNP prior to shipment of orders.

Other Annual Reviews series publications are also available. A complete listing of topics and authors for the current volumes and back volumes of Annual Reviews publications may be viewed on the Annual Reviews Web Site at http://www.AnnualReviews.org. The Web Site also features a fully searchable abstracts database for all Annual Reviews publications, which allows visitors to search by author name or key words.

16. 2014 NNPSS SITE SOLICITATION, J. Blackmon

The 2013 National Nuclear Physics Summer School is being jointly organized by Brookhaven National Laboratory and SUNY-Stony Brook and will be held on the campus of SUNY-Stony Brook in July of 2013. (See item #12.) The NNPSS Steering Committee now invites applications from potential hosts for the 2014 NNPSS. The school is sponsored by the National Science Foundation, the US Dept. of Energy, and the Institute of Nuclear Theory at the University of Washington. Information for potential hosts is available from the website http://www.int.washington.edu/NNPSS. Potential applicants are encouraged to contact Jeff Blackmon

blackmon@lsu.edu>, Chair of the NNPSS Steering Committee, regarding questions or to express interest in hosting the school. Applications should be received by March 18, 2013.

17. IUPAP WORKING GROUP 9, W. T. H. van Oers

The triennial Nuclear Science Symposia are organized by the IUPAP Working Group 9 on International Cooperation in Nuclear Physics following a recommendation by the OECD Global Science Forum. WG9NSS 2013 will be held 31 May - 1 June at the Laboratori Nazionali di Frascati (INFN), Frascati (Roma), Italy. The objectives of these Nuclear Science Symposia are to bring together proponents of nuclear science, including laboratory directors, and government science administrators. At the Symposium nuclear scientists will review the present status of the field and provide a forward look at the science to be addressed and the facilities required as a consequence. For further information contact Willem T.H. van Oers, Secretary of IUPAP WG.9. A preliminary meeting agenda can be found at: <u>http://www.triumf.info/hosted/iupap/icnp</u>

18. TREASURY REPORT, B. F. Gibson

On page 6 of the newsletter can be found the Treasury Report from the DNP12 Business Meeting augmented by figures from the Feshbach Prize fund drive. The DNP fund balance is in good shape, given that the cost of holding our annual Fall meeting can run upwards of \$200,000. Because attendance at HAW09 was 200 more than expected, the meeting was in the black (the first two Hawaii meetings ran in the red), which accounts for the growth in funds between February 2010 and January 2011. Both the DNP10 (Santa Fe) and DNP11 (East Lansing) meetings were well attended, which accounts for the continued growth in the DNP fund balance.

The Bethe and Bonner Prize funds are now similar in size, because the DNP paid the Bonner prize from DNP funds for several years. The DNP also pays the travel for the Bonner Prize winner. The Nuclear Physics Dissertation Award is stable. It has not grown significantly in recent years because of the number of years in which there were dual winners who split the award. The DNP pays the travel costs for the winners from DNP funds.

The Feshbach Prize should see its first prize awarded at the April 2014 meeting. The current endowment is approximately \$165,000. The prize fund must reach \$200,000 before a prize can be awarded annually. Institutions have contributed significantly to the endowment. The DNP asks that members step up to the plate and make a contribution to this new prize, so that it can be fully funded by the 1 July deadline for Feshbach Prize nominations.

19. FUTURE CONFERENCES

Organizers of future conferences should contact the DNP Secretary-Treasurer if they wish their conferences listed in DNP newsletters.

"5th Workshop of the APS Topical Group on Hadronic Physics" (GHP2013)

10-12 April 2013 Denver, CO, USA Contacts: John Arrington & Matthias Burkardt URL: https://sites.google.com/site/ghpworkshop/home/registration

"IUPAP Working Group 9 Nuclear Science Symposium" (WG9NSS 2013)

31 May - 1 June 2013 Frascati (Roma), Italy Contact: Willem T.H. van Oers Email: vanoers@triumf.ca URL: http://www.triumf.info/hosted/iupap/icnp

"11th International Conference on Low Energy Antiproton Physics" (LEAP2013)

10-15 June 2013 Uppsala, Sweden Contacts: Tord Johansson & Piotr Froelich URL: http://www.physics.uu.se/leap2013/

"21st International Conference on Ion Beam Analysis" (BA2013) 23-28 June 2013

Seattle, WA, USA URL: http://www.emsl.pnnl.gov/root/meetings/iba/

"2013 International Conference on Applications of Nuclear Techniques" (CRETE13)

23-29 June 2013 Crete, Greece George Vourvopoulos, Robaert Hamm & Marianne Hamm URL: http://www.crete13.org/

"11th international Topical Meeting on Nuclar Applications and Accelerators" (AccApp'13)

5-8 August 2013 Bruges, Belgium Contact: Els Vertriest Email: els@medicongress.com URL: http:// www.accapp13.org/

"4th International Conference on Nuclear Fragmentation" (NUFRA2013)

29 September - 6 October 2013 Memer, Antalya, Turkey Contacts: A Botvina & J. Pochodzalla Email: nufra2013@fias.uni-frankfurt.de

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02/28/10 \$182,662	12/31/09 \$252,604 \$232,159 \$ 56,349
02/28/11 \$249,917	12/31/10 \$253,579 \$234,046 \$ 56,503
01/31/12 \$298,931	12/31/11 \$256,234 \$246,838 \$ 59,619
08/31/12 \$339,319	08/31/12 \$254,371 \$245,591 \$143,650 \$ 59,277
DNP Fund Balance	Bethe Prize Bonner Prize Feshbach Prize Dissertation Award

Last	First	Home Institution	Research Institution	Advisor
Abromeit	Brittany	Michigan State U	MSU	Sean Liddick
Aldahlawi	Feras	Seattle U	Seattle U	Mary Alberg
Allen	Christopher	Union Coll	Union Coll	Rebecca Surman
Amrit	Matthew	Louisiana State U	Louisiana State U	Jeffrey Blackmon
Baker	Robert	Austin Peay State U	NSCL/MSU	Georg Bollen
Bang	Jarrod	Creighton U	Creighton U	Janet Seger
Banks	Daniel	Pennsylvania State U	Pennsylvania State U	Leonard Gamberg
Barker	Alyson	Westmont Coll	Westmont Coll, NSCL/MSU	Warren Rogers
Beckman	Shawn	U Colorado Boulder	U Colorado Boulder	James Nagle
Bennedsen	Sarah	Cornell U	LBNL	Alan Poon
Bergstrom	Zachary	Tennessee Tech U	ORNL	Raymond Kozub, Bill Peters
Berguson	Timothy	Juniata Coll	Pacific Northwest National Lab	John Orrell
Bi	Ran	U Illinois at Urbana- Champaign	U Illinois at Urbana- Champaign	Matthias Grosse Perdekamp
Bienstock	Mollie	SUNY Geneseo	SUNY Geneseo	Steve Padalino
Blatnik	Marie	Cleveland State U	U Illinois Urbana- Champaign	Matthias Grosse Perdekamp
Boles	Andrew	Abilene Christian U	FNAL	Donald Isenhower
Bonasera	Giacomo	Texas A&M U	Texas A&M U	Sherry J. Yennello
Bowling	Kyle	Abilene Christian U	FNAL	Donald Isenhower
Bradt	Joshua	U Rochester	Duke U/TUNL	Werner Tornow
Briere	Emily	Duke U	U Connecticut	Richard Jones
Brown	Matthew	Arizona State U	JLAB	Wally Melnitchouk
Burcher	Sean	Rutgers U	ORNL	Jolie Cizewski
Burkhart	Alex	Tennessee Tech U	ORNL	Raymond Kozub
Callister	Thomas	Carleton Coll	UCLA	Huan Zhong Huang
Campbell	Olivia	U Massachusetts Dartmouth	MAX-lab	Grant O'Rielly
Candocia	Max	U Illinois at Urbana- Champaign	U Illinois Urbana- Champaign	Matthias Grosse- Perdekamp
Castillo	Ryan	Abilene Christian U	FNAL	Donald Isenhower
Chabwera	Minnae	Hampton U	JLAB	Amrit Yegneswaran
Chan	Ka Pang	The Chinese U Hong Kong	NSCL/MSU	Betty Tsang
Charles	Anthony	U Virginia	U North Carolina Chapel Hill	Jonathan Engel

Chu	Matthew	UCLA	UCLA	Huan Zhong
				Huang
Clark	Adam	Valparaiso U	Valparaiso U	Adam Gibson-
				Even
Collison	Sean	Union Coll	Union Coll	Rebecca Surman
Craycraft	Kayla	U Kentucky	ORNL	Christopher
				Crawford
DeVanzo	Michael	Towson U	Texas A&M U	Charles M.
				Folden III
Draznik	Peter	Augustana Coll	Augustana Coll	Nathan Frank
Ellison	Drew	SUNY Geneseo	SUNY Geneseo	Steve Padalino
Engel	John	U Tennessee	U Tennessee	Robert Grzywacz
Epstein	Charles	MIT	MIT	Richard Milner
Estee	Justin	Michigan State U	NSCL/MSU	William Lynch
Fish	Jake	Harvey Mudd Coll	Indiana U	Charles J.
				Horowitz
Fisher	Barbara	Richard Stockton Coll of	Duke U	Mohammad W.
		NJ		Ahmed
Flores	Lucas	UC Riverside	BNL	Richard Seto
Fry	Cathleen	Tennessee Tech U	U Notre Dame	Umesh Garg
Furukawa	Kayla	Seattle U	Seattle U	Mary Alberg
Gaison	Jeremy	Drexel U	US Army Research	James J. Carroll
	-		Laboratory	
Garcia	Louis	UC Riverside	BNL	Richard Seto
Gardiner	Hannah	Louisiana State U	Indiana State U	Mike Snow
Garrett	Sierra	Westmont Coll	Westmont Coll, NSCL/MSU	Warren Rogers
Gell	Kristen	U Richmond	U Richmond	Con Beausang
Glassman	Brent	James Madison U	Legnaro National Lab	Leontina Adriana
-				Banu
Good	Erin	U Richmond	U Richmond	Con Beausang
Gross	Eisen	Regis U	Regis U	Frederick Gray
Gruberg	Barak	Creighton U	Creighton U	Janet E. Seger
Hlavin	Nathaniel	Catholic U America	Catholic U America	Tanja Horn
Hoffmann	Mark	Augustana Coll	Augustana Coll	Nathan Frank
Hynds	Taylor	Florida State U	Florida St. U	Dr Winston
5	5			Roberts
Ikeyama	Ran	U Wisconsin-La Crosse	ORNL	Shelly R. Lesher
Kitts	Noah	Abilene Christian U	FNAL	Donald
				Isenhower
Krieger	Michael	SUNY Geneseo	SUNY Geneseo	Steve Padalino
Kutz	Kayla	Valparaiso U	Valparaiso U	T. D. Shirvel
-	J	· · · · · · · ·	1	Stanislaus
Kyner	Anne	Roanoke Coll	NSCL/MSU	Artemis Spyrou
Lackey	Teresa	U Iowa	Indiana U Bloomington	Mark Messier
Lefky	Christopher	Creighton U	Creighton U	Gintaras Duda
Little	Hannah	UC Irvine	LANL	Toshihiko
	1 minun			
Little				Kawano

Logan	Savannah	U Oklahoma	MSU	Daniel Stump
Long	Kenneth	Tennessee Tech U	NSCL/MSU	William Lynch
Lynn	William	Abilene Christian U	LANL	Fredrik Tovesson
Mace	Mark	Indiana U	Coll William & Mary	Kostas Orginos
Maguire	Molly	Reed Coll	Texas A&M U	John Hardy
Malone	Ronald	Gettysburg Coll	CERN and Duke U	Mateusz Ploskon
Manfredi	Juan	Michigan State U	Washington U St. Louis	Lee Sobotka
Marsh	Ian	U Wisconsin La Crosse	U Notre Dame	Shelly Lesher
McArthur	Magdalene	Howard U	MSU	Michael
	U			Thoennessen
Medina	Karl	Yale U	ANL	John R. Arrington
Merfeld	Kara	U Puget Sound	Seattle U	Mary Alberg
Meyer	Ross	UCBerkeley	UC at Berkeley	Eric Norman
Mohanmurth	Prajwal	Mississippi State U	Paul Scherrer Institute	Gian Luca Orlandi
y Moon	Lonnott	New Mexico State U	LI Washington	Nikolai Tolich
Moon Morales	Jarrett Luis	Indiana U South Bend	U Washington Notre Dame, Indiana U	Manoel Couder
Morales	Luis	Indiana U South Bend	South Bend	Manoel Couder
Murray	Liam	U Richmond	U Richmond	Gerard P.
				Gilfoyle
Need	Emily	Elon U	Louisiana State U	Jeffrey Blackmon
Netherton	Katrijn	Drexel U	US Army Research	James J Carroll
			Laboratory	
Noble	Deborah	Syracuse U	Syracuse U	Richard Schnee
Ortez	Ronaldo	U Washington	MSU	Christopher
				Wrede
Osornio	Leo	Hartnell Coll	UC Berkeley	Howard Matis
Pochron	William	Valparaiso U	Valparaiso U	Shirvel Stanislaus
Polsin	Danae	SUNY Geneseo	SUNY Geneseo	Steve Padalino
Poxon-	Terri	American U	U Notre Dame	Xiao-Dong Tang
Pearson	т			T 1 XX 7'11
Rice	Logan	Wabash Coll	Sanford Underground Research Facility	John Wilkerson
Rice	Samantha	Rutgers U	Rutgers U	Noemie Benczer-
				Koller
Richard	Brad	Arkansas Tech U	Cyclotron Institute,	Robert Tribble,
			Texas A&M U	Mentor: Gianluca
				Pizzone
Roberts	Benjamin	Ursinus Coll	Ursinus Coll	Lewis Riley
Rothgeb	Laura	The Catholic U America	The Catholic U America	Tanja Horn
Roussel	Ryan	Rensselaer Plytechnic Institute	JLAB	Yves Roblin
Russ	Megan	SUNY Geneseo	SUNY Geneseo	Steve Padalino
Sabella	Jordan	UC Berkeley	UC Berkeley	ric Norman
Sadler	Bryan	Ursinus Coll	MSU	Lewis Riley
Salzillo	Travis	Tarleton State U	Texas A&M U	Rainer Fries
Sanford	Nikki	High Point U	Duke U	Kate Scholberg
Schweid	Benjamin	Muhlenberg Coll	BNL	Brett Fadem
Schweid				1
Scotten	Richard	Ohio Wesleyan U	Ohio Wesleyan U	Robert Haring-

Seeber	Mikayla	Drake U	NSCL/MSU	Artemis Spyrou
Sherman	Keegan	U Richmond	U Richmond	Gerard Gilfoyle
Simone	Angela	SUNY Geneseo	SUNY Geneseo	Steve Padalino
Singh	Harjit	UC Berkeley	LBNL	Alan Poon
Skolnik	MariAnne	Muhlenberg Coll	BNL	Brett Fadem
Smith	David	South Dakota Sch Mines and Technology	U South Dakota	Dongming Mei
Solomon	Mathew	Abilene Christian U	BNL	Rusty Towell
Solt	Matthew	Oakland U	MSU	Remco Zegers
Specht	David	Coll of William and	Coll William and Mary	Wouter
		Mary		Deconinck
Stevens	Jeremy	Michigan State U	NSCL/MSU	Hendrik Schatz
Stillman	Collin	SUNY Geneseo	SUNY Geneseo	Steve Padalino
Tarlow	Thomas	U Richmond	U Richmond	Con Beausang
Tate	Aric	Abilene Christian U	BNL	Rusty Towell
Taylor	Nathaniel	Westmont Coll	Westmont Coll, NSCL/MSU	Warren Rogers
Thomsen	Kyle	Tennessee Tech U	ORNL	Michael Smith
Towell	Ramsey	Abilene Christian U	BNL	Rusty Towell
Tripp	Nathan	Grand Valley State U	TUNL	Calvin Howell
Usher	Will	UC Riverside	UC Riverside	Richard Seto
Wagner	Michell	U South Dakota	U South Dakota	Dongming Mei
White	James	Syracuse U	Syracuse U	Richard Schnee
Wilburn	Grey	U Chicago	LANL	Aaron Couture
Williams	Cedric	Louisiana State U	Louisiana State U	J. C. Blackmon