

Newsletter No. 139 May 2004

TO: Members of the Division of Nuclear Physics, APS

FROM: Benjamin F. Gibson, LANL - Secretary-Treasurer, DNP

ACCOMPANYING THIS NEWSLETTER:

- · DNP Nomination Ballot
- Poster for DNP04



Future Deadlines

- 1 July 2004 User Group Deadline in order to appear in the October Bulletin
- 1 July 2004— Nomination Ballot for DNP Election
- 1 July 2004 Contributed Abstracts, DNP03 Fall Meeting
- 1 July 2004 Nominations for Bonner Prize
- 1 July 2004 Nominations for Bethe Prize
- 1 July 2004 Nominations for Dissertation Award
- 3 September 2004 DNP04 Early Registration Deadline
- 17 September 2004 DNP04 Hotel Reservations Deadline

HOME PAGE for the DNP: http://dnp.nscl.msu.edu

The home page for the Division of Nuclear Physics is available at "http://dnp.nscl.msu.edu." Information of interest to DNP members -- current research topics, deadlines for meetings, prize nominations, forms, and useful links are provided. Each DNP Newsletter is posted, in advance of the copy sent via post. Comments and suggestions are solicited. Please send them to Thomas Glasmacher at "dnpweb@nscl.msu.edu"

1. DNP COMMITTEES

Executive Committee

Donald F. Geesaman, ANL, Chair (2004) Bradley M. Sherrill, MSU, Chair Elect (2004)

Susan J. Seestrom, LANL, Vice Chair (2004)

A. Baha Balantekin, U. Wis, Past Chair (2004)

Benjamin F. Gibson, LANL, Sec.-Treas. (2004)

Bunny C. Clark, Ohio State Univ.

Divisional Councilor (December 2005)

Calvin R. Howell, Duke Univ. (2004)

Kevin T. Lesko, Univ. Calif. Berkeley. (2005)

Naomi C. R. Makins, U. Illinois (2004)

Alice Mignerey, Univ. of Maryland (2005)

Gail C. McLaughlin, N. Carolina St. (2004)

William A. Zajc, Columbia Univ. (2005)

Program Committee

Bradley M Sherrill, Michigan State Univ., (Chair)

Susan J. Seestrom, LANL, (Vice Chair)

Donald F. Geesaman, ANL, (Past Chair 2003)

A. Baha Balantekin, U. Wisconsin, (Past Chair, 2002)

B. F. Gibson, LANL, (Secretary-Treasurer)

J. C. Blackmon, ORNL

P. Chowdhury, Univ. of Massachusetts - Lowell

S. J. Freedman, LBL

H. Gao, Duke Univ.

T. Hallman, LBNL

U. W. Heinz, Ohio State Univ.

T-S. Lee, ANL

D. Mack, TJNAF

E. Ormand, LBNL

T. Schaefer, North Carolina State Univ.

M. R. Thoennessen, Michigan State Univ.

S. Yennello, Texas A&M Univ.

Remaining committees will appear in August.

2. NOMINATIONS OF OFFICERS AND EXECUTIVE COMMITTEE FOR 2005

Terms of the officers and three members of the present Executive Committee will expire at the close of the regular meeting of the Division to be held in conjunction with the APS spring meeting in Tampa, FL 2005. Bradley M. Sherrill will become Chair, Susan J. Seestrom will become Chair-Elect, and Kevin T. Lesko, Alice Mignerey, and William A. Zajc will remain members of the Executive Committee. A Vice-Chair, Secretary-Treasurer, and three members of the Executive Committee are to be elected before April 2005.

The enclosed nominating ballot must be signed and may be returned in the enclosed envelope with your name and address printed or signed legibly in the upper left hand corner of the envelope. The nominating ballot can be downloaded. It should be received by **Benjamin F. Gibson** on or before **1 July 2004** in order to be counted. The DNP bylaws require that a nominee proposed for a given post by not fewer than one-fiftieth of the members (48 for this election) shall be deemed nominated for that post.

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- Future Meeting Dates
- Nuclear Physics Summer School
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If you are a DNP member, please exercise your right to nominate candidates for the upcoming DNP elections. In 2003 there were only 50 nomination forms received by the Secretary-Treasurer. More members vote in the DNP elections, but in January 2004 only some 506 election ballots were mailed in by members. It is important to vote!

CALL FOR 2004 PRIZE/AWARD NOMINATIONS

3. NOMINATIONS FOR THE 2005 TOM W. BONNER PRIZE IN NUCLEAR PHYSICS

This annual prize was established in 1964 as a memorial to Tom W. Bonner by his friends, students and associates. Previous winners are: H. H. Barschall, R. J. Van de Graaff, C. C. Lauritsen, R. G. Herb, G. Breit, W. A. Fowler, M. Goldhaber, J. D. Anderson and D. Robson, H. Feshbach, D. H. Wilkinson, C. S. Wu, J. P. Schiffer, S. T. Butler and G. R. Satchler, S. Polikanov and V. M. Strutinsky, Roy Middelton and W. Haeberli, R. M. Diamond and F. S. Stephens, B. L. Cohen, G. E. Brown, C. D. Goodman, H. A. Enge, E. G. Adelberger, L. M. Bollinger, B. Frois and I. Sick, R. H. Davis, E. M. Henley, V. W. Hughes, P. Twin, H. G. Blosser and R. E. Pollock, A. Arima and F. Iachello, E. K. Warburton, F. Boehm, J. D. Walecka, R. G. H. Robertson, J. M. Moss, V. R. Pandharipande, R. Arnold, R. Geller and C. Lyneis, J. D. Bowman, A. B. McDonald, and G. F. Bertsch.

The purpose of this prize, which currently consists of \$7,500 and a certificate citing the recipient's contributions, is "To recognize and encourage outstanding experimental research in nuclear physics, including the development of a method, technique, or device that significantly contributes in a general way to nuclear physics research."

Nominations are open to physicists whose work in nuclear physics is primarily experimental, but a particularly outstanding piece of theoretical work may take precedence over experimental work. There are no time limitations on when the work was performed. The prize shall ordinarily be awarded to one person but a prize may be shared among recipients when all the recipients have contributed to the same accomplishment(s).

Nominations remain active for three years. It is extremely helpful for the committee to receive additional letters of support that detail the contributions of the nominee and the impact these contributions have had on the field. It is also appropriate to submit material such as significant articles that might help us evaluate the nominee's contribution. While general statements concerning the value of the nominee's work are important, we must have specific information that allows us to determine what the nominee has contributed and how this contribution has impacted the field.

Send name of proposed candidate and supporting material before *1 July 2004* to: Bradley W. Filippone, 106-38 Kellogg Rad. Lab., Caltech, 1200 E. California Blvd., Pasadena, CA 91125.

4. NOMINATIONS FOR THE 2005 BETHE PRIZE IN NUCLEAR PHYSICS AND ASTROPHYSICS

This annual prize was established in 1996 by friends, students, and associates of Hans A. Bethe and announced at Bethe's 90th birthday celebration at Cornell. Previous prize winners are: J. Bahcall, E. E.

Salpeter, I. Talmi, G. E. Brown, M. C. T. Wiescher, and W. C. Haxton.

The purpose of the prize, which currently consists of \$7500 and a certificate citing the recipient's contributions, is "To recognize outstanding work in theory, experiment, or observation in the areas of astrophysics, nuclear physics, nuclear astrophysics or closely related fields."

The award is to be made to one individual for outstanding accomplishments in these areas. No time limits are set on when the work was done.

Nominations remain active for three years. It is extremely helpful for the committee to receive additional letters of support that detail the contributions of the nominee and the impact these contributions have had on the field. It is also appropriate to submit material such as significant articles that might help the committee evaluate the nominee's contribution. While general statements concerning the value of the nominee's work are important, specific information defining what the nominee has contributed and how this contribution has impacted the field is needed.

Send name of proposed candidate and supporting material before *1 July 2004* to: Trevor C. Weekes, Smithsonian Astrophysics Observaory, P.O. Box 97, Amado, AZ 85245.

5. NOMINATIONS FOR THE 2005 DISSERTATION AWARD IN NUCLEAR PHYSICS

The now annual prize, which recognizes a recent Ph.D. in nuclear physics, was established in 1985 by members and friends of the Division of Nuclear Physics of the APS. Previous winners are: B. Sherrill and W. J. Burger, Thomas E. Cowan, Michael J. Musolf, James Edward Koster, Zhiping Zhao, Greg Schmid, Yury G. Kolomensky, Eric Hawker, John Arrington, Daniel Bardayan, Juinn-Wei Chen, Karsten Heeger, and Andrew Steiner.

<u>Nature</u>: The award consists of \$2000 and an allowance for travel to the annual Spring Meeting of the Division of Nuclear Physics of the American Physical Society at which the award will be presented.

Rules and Eligibility: Nominations are open to any person who has received a Ph.D. degree in experimental or theoretical nuclear physics from a North American university within the two-year period preceding 1 September 2004.

Send before *1 July 2004* the nomination of the proposed candidate, a statement of his/her contribution to the research as well as that of others and a letter of support from physicists who are familiar with the candidate and the research. To expedite the process, copies of the thesis should be made available for the five committee members. These materials are required for each nominee and should be sent to D. F. Geesaman, Physics Div., Argonne National Lab., 9700 S. Cass Ave., Argonne, IL 60439.

6. FUTURE DNP FALL MEETINGS

2005 Sep. 20 – 24 Maui, HI

The dates include the Wednesday "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. The 2005 Maui meeting is an exception — Tuesday workshops in a five-day 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 other than their own.

7. FUTURE APS SPRING MEETING INFORMATION

2005	April 16 – 19	Tampa, FL
2006	April 22 – 25	Dallas, TX

The 2005 APS Spring Meeting will move to Tampa, FL. Any comments/suggestions should be sent to APS Meetings Manager, Donna Baudrau (baudrau@aps.org).

8. 2004 NATIONAL NUCLEAR PHYSICS SUMMER SCHOOL, Barry Holstein & Dmiri Kharzeev

The 2004 National Nuclear Physics Summer School will take place 13-25 June 2004 at the College of the Atlantic in Bar Harbor, Maine. This site is on the water and was also the location of the 2001 national nuclear physics summer school. Nearby lie many attractions, including Acadia National Park.

Among the lecturers will be:

Krishna Rajagopal, MIT "Phases of QCD"
Mark Pitt, Virginia Tech "Electroweak Physics"

Dick Furnstahl, Ohio State "Fermion Many body Systems"

Stuart Freedman, Berkeley
Daniel Phillips, Ohio U
Mike Snow, Indiana
Gunther Roland, MIT

"Neutrino Physics"
"Effective Field Theory"
"Neutron Physics"
"RHIC Physics"

In addition, special lectures will be given by:

Mike Ramsey-Musolf, UConn/Caltech

"Topics in Electroweak Physics"

John Beacom, Fermilab "Topics in Nuclear Astrophysics"

Interested students/postdocs can apply on-line as well as obtain additional information at the URL

http://www.bnl.gov/npss/

9. 2004 DNP FALL MEETING IN CHICAGO OCTOBER 27 - 30, T-S. H. Lee

The 2004 Fall Meeting of the Division of Nuclear Physics (DNP) will be held at the Hyatt Regency Chicago from Thursday, October 28th, through Saturday, October 30th. The meeting will follow the traditional format opening with a plenary session on Thursday, having a Town Meeting on Friday, and concluding Saturday afternoon. Two topical workshops will be held in parallel on the preceding Wednesday, October 27th. Updated information and registration are available via the conference web site: "http://dnp04.phy.anl.gov".

Hotel

The Hyatt Regency Chicago (151 East Wacker Drive, Chicago, Illinois 60601) is the Headquarters Hotel and Conference Center for DNP04. Three hundred rooms are reserved at the Hyatt at the

Government rate (capped at \$155/night [single/double], \$170/night [triple], \$195.00/night [quad]), plus taxes. The Hyatt is within walking distances of many cultural attractions, historical buildings, the magnificent mile along Michigan Avenue, and Lake Michigan.

Registration and Hotel Reservations

Registration and hotel reservations must be made through the conference web site "http://dnp04.phy.anl.gov".

Hotel reservations should be made by September 17, 2004 in order to obtain the discount rate. Early registration will end on September 3, 2004 (note that this is approximately eight weeks after the abstracts are due).

Registration costs (**) are given in the following table.

	Members	Non members	Students	Work shop
Early Reg. (by Sep. 3)	\$165	\$330	\$90	\$40
Late Reg. (Sep. 3-Oct. 22)	\$215	\$380	\$105	\$55
On-site Reg.	\$265	\$430	\$120	\$70

A banquet will be held at the Hyatt Regency on Friday evening at an additional cost of \$60.00 per person.

(**) The \$25.00 increase in the registration fee from the last DNP meeting is mainly due to the renting of LCD projectors for presentations at all sessions.

Transportation

Chicago is served by most major airlines through either O'Hare or Midway Airports. Discount rates from most of the airlines are available if booked early. The conference site at the Hyatt Regency Chicago (151 East Wacker Drive, Chicago, Illinois 60601) can be reached by CTA trains (Blue Line from O'Hare and Orange Line from Midway). Cab rides from airports are approximately \$30-\$35. You may also take the Airport Express Shuttle Bus that stops at major downtown hotels (about 1/2 price of a cab). The Shuttle Bus leaves from doors 1-E, 2-D, 3-E, and 5-E at O'Hare and LL3 at Midway.

Meeting Structure

The meeting will consist of invited talks and minisymposia along with the traditional contributed talks. The invited sessions will be arranged by the DNP Program Committee at its Spring Meeting.

The regular meeting will be preceded by two all-day workshops that will run in parallel. One workshop is entitled "Advances in Understanding the Nucleon" and is being organized by J. Arrington, Roy Holt, and C. Roberts of Argonne National Laboratory. The other workshop is entitled "Experimental Methods for Next Generation Rare Isotope Beams" and is being organized by M. Carpenter, R. Janssens, and J. Nolen of Argonne National Laboratory. More information on the workshops will be available on the conference web site.

Presentations at all sessions will be equipped with LCD and overhead projectors (**). Speakers making an electronic presentation should bring their own laptop and check that it works prior to the session.

User-group meetings and other satellite meetings will be held Thursday evening. Contact the Local Organizing Committee chair to reserve space. Requests should be made by July 1 to ensure inclusion of a function in the BAPS program.

Undergraduate Student Program

Undergraduate students interested in applying for financial support through the Conference Experience for Undergraduates (CEU04) should contact W. Rogers(rogers@westmont.edu) or visit the CEU homepage http://physics.westmont.edu/ceu04.

Women Encouraging Competitive Advancement in Nuclear Science Programs.

A networking breakfast will be held on Saturday, October 30th, from 7:00 – 9:00 a.m. in the San Francisco Room of the Hyatt Regency Chicago. To register log onto the conference web site.

Abstracts

The deadline for submission of abstracts is July 1, 2004. The meeting ID is DNP04. Instructions can be found at "http://www.aps.org/meet/abstracts/online.html". The APS no longer accepts abstracts by email. Direct web submission of abstracts can be made through "http://abstracts.aps.org". Please note that the Latex-based processor properly handles ONLY the commands provided by the template.

Local Organizing Committee

J. Arrington, M. Carpenter, D. Geesaman, R. Janssens, T.-S. H. Lee (Chair), and J. Nolen.

Important Dates

1 July 2004	Submission of abstracts		
3 September 2004	Early registration ends		
17 September 2004	Hotel reservation at the Hyatt Regency		
	Chicago at the conference rate		
17 October 2004	Late registration ends		

10. FALL MEETING MINI-SYMPOSIA

Mini-symposia will again be a part of the 2004 Fall Meeting in Chicago. Mini-symposia are focused sessions in which an invited speaker sets the tone for the topic, provides an overview and introduction, highlights new developments, etc. That talk is followed by related contributed papers. Abstracts are submitted in the usual manner; that is, abstracts are submitted to APS HQ electronically.

To insure that your abstract is considered for the mini-symposia in which you wish to participate, it is necessary that your abstract be identified with the appropriate code. There is no guarantee that all abstracts submitted for a given mini-symposium can be accommodated in that contributed paper session. In the event that more abstracts are received than can be accommodated, the additional abstracts will be assigned to another related contributed paper session. Watch for an email announcement of topics.

11. APS TABLE OF CONTENTS ALERT SERVICE, Barbara Hicks, Associate Publisher, APS

The American Physical Society (APS) is offering a free table of contents (TOC) notification service for each Journal published by APS: Physical Review, Physical Review Letters, and Reviews of Modern Physics to all APS members, subscribers, and non-subscribers. The TOC notification service will provide users of the APS journals with email alerts of recently published issues.

Researchers can now sign up for free Email Alerts, with table of contents listing for each new journal issue. Alerts are sent immediately to the user's email after the complete issue is published online. Users may choose between ASCII and HTML formats for the alerts. Alerts in ASCII format contain the URL for the journal issue and a list of all articles in the issue. HTML alerts are fully hyperlinked to abstracts and full-text for each article. Journal

subscribers will be able to seamlessly link to and access full-text content from the HTML TOCs and non-subscribers may purchase full-text articles using online ordering services.

Signing up is easy and secure - just go to the Email Alerts Center at the APS Journal Homepage:

http://publish.aps.org/

and from the individual journal homepages, enter your name and email address, and select which format you want to receive your alerts (either HTML or ASCII format).

This service is a vital research tool, which will keep you up-to-date with the latest scientific breakthroughs and discoveries.

Any questions, please contact: Barbara Hicks, Associate Publisher, Email: assocpub@aps.org

12. ANNUAL REVIEWS OF NUCLEAR AND PARTICLE SCIENCE

New 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 will be verified through the DNP prior to shipment of orders.

2004 Prices: The dual prices (separated by a slash) listed below correspond to USA/other countries including Canada. Volumes 44 and 45 are \$62/\$67 retail and \$43.40/\$46.90 for DNP members. Volume 46 is \$67/\$72 retail and \$46.90/\$50.40 for DNP members. Volumes 47 - 50 are \$70/\$75 retail and \$49/\$52.50 for DNP members. Volume 51 is \$75/\$80 retail and \$52.50/\$56.00 for DNP members, and Volume 52 is \$77/\$82 retail and \$53.90/\$57.40 for DNP members.

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 data base for all Annual Reviews publications, which allows visitors to search by author name or key words.

Payment should accompany your order and must be in U.S. funds. California orders must add applicable sales tax. *All orders shipped to Canada require the addition of a 7% GST (Reg. #121449029 RT).*

13. FUTURE CONFERENCES

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

"3rd International Symposium on the Gerasimov-Drell-Hearn Sum Rule and its Extensions", 2-5 June 2004

Old Dominion University, Norfolk, VA, USA Contact: Sebastian Kuhn, Scientific Secretary

Email: gdh2004@jlab.org

URL: http://www.physics.odu.edu/GDH2004

"Gordon Research Conference on Nuclear Chemistry, Nuclear Reactions: Flavors across Energies," 13-18 June 2004, Colby-Sawyer College, New London, NH

Chair: Pawel Danielewicz Phone: 517-333-6330 E-mail: danielewicz@nscl.msu.edu

URL: http://www.grc.uri.edu/programs/2004/nuchem.htm.

"Lattice 2004, XXII International Symposium on Lattice Field Theory" 21-26 June 2004

Fermi National Accelerator Laboratory Contacts: A. Kronfeld & P. Mackenzie, FNAL URL: http://lqcd.fnal.gov/lattice2004/

"Eighth Symposium on Nuclei in the Cosmos,"

19-23 July 2004, Vancouver, B.C., Canada

E-mail: nic8@triumf.ca

URL: http://www.triumf.ca/nic8

"XXXV Latin American School of Physics (ELAF 2004): Supersymmetries in Physics and its Applications", 19-30 July 2004, El Colegio Nacional, Mexico

City, Mexico Chair: Roelof Bijker

E-mail: elaf2004@nuclecu.unam.mx

URL: http://www.nuclecu.unam.mx/~bijker/elaf2004.html

"Conference on Nuclei at the Limits," 26-30 July 2004

Argonne National Lab, Argonne, IL.

Chair: Thomas Duguet, Sec: Jeannie Glover E-mail: limits04@anl.gov

URL: http://www.phy.anl.gov/limits04

"2004 Gordon Research Conference on Photonuclear Reactions", 1-6 August 2004, Tilton School, Tilton, NH

Organ: Daniel Phillips (phillips@phy.ohiou.edu), Adam Sarty (asarty@ap.stmarys.ca), Bernd Krusche (Bernd.Krusche@unibas.ch).

URL: http://www.grc.org/programs/2004/photonuc.htm.

"12th International Conference on Recent Progress in Many-Body Theories" 23-27 Aug 2004 Santa Fe, NM

Contact: Joe Carlson Email: carlson@lanl.gov

URL: http://cnls.lanl.gov/Conferences/Many-Body/Theories

"Applied Modeling And Computations In Nuclear Science (at the American Chemical Society National Meeting)" 28 August - 1 September 2005 Washington DC,

Contact: Thomas Semkow New York State Dept. of Health & SUNY

FAX: 518-474-8590

email: tms15@health.state.ny.us

"CGS 12, International Conference on Capture Gamma Ray Spectroscopy and Related Topics" 4-9 Sept. 2005

University of Notre Dame Chair: Ani Aprahamian Email: Aprahamian.1@nd.edu

URL: http://www.nd.edu/~nsl/CGS12

"Fourth International Conference on Exotic Nuclei and Atomic Masses (ENAM'04)," 12-16 September 2004, Pine

Mountain, GA

Co-chairs: Witek Nazarewicz and Carl Gross, Oak Ridge Nat. Lab.

E-mail: enam04@phy.ornl.gov

URL: http://www.phy.ornl.gov/enam04/

"International Conference on Nuclear Data for Science and Technology (ND2004)," 26 September - 1 October, 2004,

Santa Fe, New Mexico, USA

Chairs: R.C. Haight & M.B. Chadwick URL: http://t16web.lanl.gov/nd2004/.

"CAARI 2004: 18th International Conference on the Application of Accelerators in Research and Industry,"

10-15 October 2004, University of North Texas, Denton, Texas,

Chair: Jerome L. Duggan Phone: 940-565-3252, Fax: 940-565-2227 E-mail: jduggan@unt.edu

URL: http://orgs.unt.edu/CAARI

"SPIN2004, 16th INTERNATIONAL SPIN PHYSICS SYMPOSIUM" 10-16 October 2004, Trieste, Italy

Contact: Silvia Dalla Torre INFN - Trieste

email: spin2004@ts.infn.it

URL: http://www.ts.infn.it/events/SPIN2004/

"The International Conference on NUclear STructure, Astrophysics and Reactions (NUSTAR'05)," 5-8 January

University of Surrey, Guildford, UK.

Chair: Paddy Regan

E-mail: p.regan@surrey.ac.uk

URL: http://www.ph.surrey.ac.uk/cnrp/nustar05

"International Conference on Nucleus-Nucleus collisions (NN2006)," 2006, San Paulo-Brazil

Chair: Mahir S. Hussein, Univ. Sao Paulo E-mail: <u>Hussein@fma51.if.usp.br</u>.

DONALD F. GEESAMAN Chair

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