

Newsletter No. 145 November 2005

TO: Members of the Division of Nuclear Physics, APS

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



Future Deadlines

- 13 January 2006 Abstract deadline for spring meeting
- 20 January 2006 DNP Election Ballot
- 17 February 2006 Early registration for spring meeting
- 20 March 2006 Housing deadline for spring meeting
- 1 April 2006 Nominations for 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. 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. ELECTION OF OFFICERS AND EXECUTIVE COMMITTEE FOR 2006

The terms of the officers and three members of the current Executive Committee will expire at the close of the Business meeting of the Division to be held in conjunction with the APS general meeting in Dallas, 23-25 April 2006. Susan J. Seestrom will become Chair, Richard G. Milner will become Chair-Elect, and Bradley M. Sherrill will become Past-Chair. A. Baha Balantekin is the Divisional Councilor through 2009. Ani Aprahamian, Anna C. Hayes, and David Hertzog 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 2006. Executive Committee member terms are two years.

This year's Nominating Committee consists of S. J. Yennello (Chair), K. deJager (Vice Chair), R.J. Furnstahl, A. Hime, and J.H. Thomas. The candidates selected by the Nominating Committee and approved by the Executive Committee are:

Vice-Chair (one position):

Richard F. Casten Alice C. Mignerey

Secretary-Treasurer:

Benjamin F. Gibson

Executive Committee (three positions):

Jolie A. Cizewski Jonathan H. Engel Carl A. Gagliardi Ulrich W. Heinz Cynthia E. Keppel Steven E. Vigdor

Candidate biographies are included in this newsletter (item #20).

Web balloting has been approved by the Division's membership. Those with email addresses registered with the APS will receive an election email containing instructions plus a PIN number. Those for whom no email address is available or whose email bounces will be sent a paper ballot. The deadline for voting is 20 January 2006.

As a DNP member, please exercise your right to vote in the DNP election. Typically only some 600+ election ballots have been mailed in by members. Your vote does count. It is important. DNP elections have been decided by fewer than 5 votes.

2. ACKNOWLEDGE YOUR SPONSORING AGENCY

Given the importance of agency sponsorship in making nuclear physics research possible, it is urged that DNP members acknowledge their agency sponsors in any talk or publication which they generate: seminars, workshop contributions, APS meeting talks, conference talks/posters, etc.

3. SESSION CHAIRS FOR THE DALLAS, TX, APRIL 2006 APS SPRING MEETING

The APS/DNP Spring Meeting will be in Dallas, TX. Those who are willing to chair a session should please send an email message to Susan Seestrom (<seestrom@lanl.gov>) indicating: 1) willingness to serve and 2) areas of expertise which might be of interest. The information is needed by 6 January. Nominations of younger colleagues who will attend the meeting are welcome.

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4. 2005 DNP DISTINGUISHED SERVICE AWARD WINNER

The 2005 winner of the American Physical Society's Division of Nuclear Physics' Distinguished Service Award, B. C. Clark of Ohio State University, was announced at the Business/Town meeting held during the Fall Meeting in Hawaii. The citation reads:

For her exceptional contributions to the Division of Nuclear Physics, her leadership of the Division and of the American Physical Society on behalf of the Division, and her tireless efforts to promote science and the status of women in nuclear physics, including the initiation of many programs to enhance the participation of under-represented groups in nuclear science.

Congratulations are due to Bunny. She has provided significant service to the Division which has benefited every member.

5. 2006 BONNER PRIZE WINNER

John C. Hardy of Texas A&M University and Ian S. Towner of Queen's University have been named the winners of the APS 2006 Tom W. Bonner Prize in nuclear physics. The citation reads:

In recognition of their ultra-high precision measurements detailed analyses of $0+ \rightarrow 0+$ nuclear beta decay rates to explore the unitarity of the Cabibbo-Kobayashi-Maskawa quark mixing matrix as a test of the electroweak Standard Model.

Please go to http://www.aps.org and click on Prizes and Awards for additional information.

6. 2006 BETHE PRIZE WINNER

A.G.W. Cameron of Harvard University has been named the winner of the APS 2006 Hans A. Bethe Prize. The citation reads:

For his pioneering work in developing the fundamental concepts of nuclear astrophysics. These basic ideas, laid out almost 50 years ago, are still the basis of current research in this field.

Please go to http://www.aps.org and click on Prizes and Awards for additional information.

7. 2006 DISSERTATION AWARD WINNER

Li-Bang Wang of the University of Illinois has been named the winner of the DNP 2005 Dissertation in Nuclear Physics Award for his thesis work under the direction of Roy J. Holt. The citation reads:

For his outstanding and innovative experimental work to precisely increase the charge radius of the exotic and short-lived isotope ⁶He by laser spectroscopic studies of single atoms stored in a magneto-optical trap. The result helps to reveal the nature of weakly-bound nuclei and serves as a key benchmark for nuclear models.

Please go to www.aps.org and click on Prizes and Awards for additional information.

8. FUTURE DNP FALL MEETINGS

2006	October 25-28	Nashville, TN
2000	OCTOOCT 23-20	14451141110, 114

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. 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.

9. FUTURE APS SPRING MEETING INFORMATION

2006	April 22 – 25	Dallas, TX
2007	April 14 – 17	Jacksonville, FL
2008	April 12 – 15	St. Louis, MO
2009	May 2-5	Denver, CO

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

10. REPORT ON THE 2005 DNP/JPS FALL MEETING

The Second Joint Meeting of the nuclear physicists of the American Physical Society and the Physical Society of Japan (HAW05) took place at the Ritz-Carlton Hotel in the Kapalua Resort on the island of Maui from Sunday, 18 September, through Thursday, 22 September. Some 900 registered participants took advantage of the local attractions, 96 workshop presentations, 28 invited and plenary talks, 23 minisymposium lead speaker talks, and 560+ contributed papers. The meeting was a resounding success, serving as a meeting ground to foster cooperation, collaboration, and the exchange of ideas among nuclear scientists from Japan, the U.S., and other Pacific Rim countries. Moreover, it provided an unusual opportunity for students from Japan and the U.S. to meet, interact, and discuss their visions of careers in nuclear physics.

Eight all-day workshops ran in parallel on Sunday morning and afternoon. Topics included "Nuclear/Hadron Physics at JLab and J-PARC", "Strongly Interacting Matter Probed at RHIC", "Spin Structure Studies at RHIC", "Beyond qq-bar and qqq: Pentaquarks and More", "Nuclear States Under Extreme Conditions of Binding and Isospin Asymmetry", "Double Beta-Decay and Neutrino Mass", "Neutrino Astrophysics", and "Neutron-rich Nuclei in Nuclear Astrophysics". The workshops were followed by a Nishina Foundation Symposium (speaker T. Yamazaki), a pavilion reception, and a symposium celebrating the scientific life of Hans A. Bethe (speakers T. Otsuka on behalf of H. Sato and G.E. Brown).

The Plenary session on Monday included an exchange of gifts between H. Sakai (representing the JPS) and B.M. Sherrill (representing the APS). The talks on "Future Directions in Nuclear Physics" were by M. Turner, T. Motobayashi, H. Horuichi, and D.F. Geesaman. Six invited speaker sessions covered the topics of "Recent Progress in Nuclear Astrophysics", "New Results for Exotic Nuclei in the sd-pfg Shell", "Nucleon Baryon Interactions", "Applications of Nuclear Science", "Exploration of a New State of Dense Matter", and "QCD Beyond Three Quarks". Mini-symposia were held on numerous subjects: "Minisymposium on Low Energy Tests of the SM and Searches for New Physics", "Mini-symposium on Hypernuclei", "Mini-symposium on Compton Scattering from Nucleons and Nuclei", "Mini-symposium on Nuclear Moments", "Mini-symposium on Chiral and Color Condensation", "Mini-symposium on New Aspects of Nuclear Forces", "Mini-symposium on Pair and Cluster Correlations in Nuclei", "Minisymposium on Structure Changes of Asymmetric Nuclear Systems", "Mini-symposium on Strongly Interacting Quark Matter", "Minisymposium on Pentaquarks", "Mini-symposium on Relativistic Heavy Ions, Recombination", "Mini-symposium on Orbital Motion of Quarks

in Hard Scattering", "Mini-symposium on Nuclear Physics in Extreme Astrophysical Conditions", "Mini-symposium on Orbital Motion of Quarks in Hard Scattering", "Mini-symposium on Neutrino Mixing and CP Violation: Reactors, Accelerators, and Supernovae", and "Mini-symposium on New Technology in Gamma Ray Detection" Contributed papers were presented in 32 sessions that ran in parallel with the invited sessions and mini-symposia.

On Monday morning a brunch and speakers program (S. Yennello and E. Hiyama) focused upon women and minorities in physics. It was sponsored by the DNP, JPS, ANL, BNL, LBNL, LANL, SURA, and WECAN. On Wednesday afternoon DNP Chair Brad Sherrill conducted the DNP Business and Town Meetings. Highlights included the DNP Distinguished Service Award presentation to Bunny C. Clark (Ohio State University) and reports by the funding agency representatives, Brad Keister (NSF) and Dennis Kovar (DOE). Warren Rogers (Westmont College) again organized several activities within the Conference Experience for Undergraduates, including a poster session with refreshments sponsored by Physical Review C and Physical Review Letters, two one-hour lectures, and a session on graduate school information. Some 80 undergraduates from the U.S. participated plus 16 undergraduate students from Japan. On Wednesday evening more than 600 people enjoyed the Aloha Ho'olaule'a (buffet) in the Ritz-Carlton pavilion.

The meeting was preceded by a Physics Fun Day outreach program held at the Queen Ka'ahumahu Shopping Center in Kahului, organized by the DNP Education Committee with special thanks to M. Mahan and C. Beausang. University departments and National Labs sponsored activities for students ranging from grade school to adults. A Physics Olympics for high school and middle school teams was included. Awards to the winning teams were presented prior to the Public Lecture held at the Maui Arts and Cultural Center. Lawrence Krauss, Professor of Physics at Case Western Reserve University, spoke on "Einstein's Biggest Blunder: A Cosmic Mystery Story."

The Organizing Committee expresses its thanks to Kay Grady, Kiyoko Hirose, Karen Hope, Dianna Jacobs, and Ikuho Nakano for their help with registration as well as Carol Kuc and her staff from Complete Conference Coordinators, Inc. for their organizational support of the meeting.

11. APS MEETING IN DALLAS, TX, 22 - 25 APRIL 2006

The 2006 April Meeting of the APS will be held in Dallas, TX, at the Hyatt Regency Hotel. Participating APS units will include the Divisions of Nuclear Physics, Particles and Fields, Astrophysics, Physics of Beams, Computational Physics, and Plasma Physics. Forums represented will include Physics and Society, Education, Int'l. Affairs, Graduate Student Affairs, and History of Physics. The program will consist of three plenary sessions, some 75 invited paper sessions, and more than 100 contributed paper sessions. Plenary sessions can be found by checking the APS Home Page (www.aps.org) under "Meetings, "April Meeting". For 2006 there will be 4 session per day with a lunch break. The sessions will be long enough for only 3 invited talks. The early registration deadline is 17 February and the hotel deadline is 20 March.

12. APRIL 2006 MEETING STUDENT TRAVEL AWARDS, B. M. Sherrill

The DNP is pleased to offer a limited number of travel grants to encourage students to participate in April 2006. The APS April meeting

provides an excellent opportunity for students to present their research, to hear about a broad range of physics topics, and to meet potential employers. To promote graduate (and in very special cases undergraduate) student participation, the DNP will offer travel awards of \$200 plus complimentary registration for the meeting -- based on merit and need. In order to be eligible students must present a talk at the April meeting, complete the application process by the Jan. 13th deadline, and provide a statement of support from their thesis or research supervisor. Please see the DNP web site for more details and the application procedure.

13. DNP APRIL 2006 MEETING PROGRAM

The DNP Program Committee, under the leadership of Program Committee Chair Susan Seestrom, has completed its planning activity for the DNP component of the APS April Meeting (22-25 April) in Dallas. There will again be plenary sessions at 8:30 a.m. on three of the four meeting days. As in Tampa, invited sessions will have only three speakers. For the details please see the APS web site.

A number of joint sessions are being organized with other APS units. Included are two DNP/FHP/DPF sessions on the 50th Anniversary of parity non conservation, DNP/DPB sessions on high luminosity electron-ion colliders and hadron structure studies using polarized beams, DNP/DPF sessions on neutrinos, dark matter, and the Underground Lab, and a DNP/FED session reviewing what was learned from the World Year of Physics.

Stand alone DNP sessions are being organized by DNP Program Committee members. The DNP Prize Session will involve three of the four winners of the Bonner Prize, Bethe Prize, and Nuclear Physics Dissertation Award. The fourth talk will be highlighted in one of the two voted sessions being organized by Program Committee Chair Susan Seestrom based upon the voting of the Program Committee on speaker nominations submitted by the DNP membership. A topic session on "Physical Properties of Partonic Matter" and a second topic session on "Implications of QCD Transitions for Cosmology" are being organized by T. Hallman and V. Greene. A topic session on "Studies of Light Exotic Nuclei" is being organized by E. Ormand. A fourth topic session on "Primordial Nucleosynthesis" is being organized by C. Brune.

The DNP Program Committee members are involved in organizing six mini-symposia in Dallas. Contributed papers intended for minisymposia should be identified by the appropriate sorting category listed below. (Note that the category E14a should be entered as (E){14}{a} in the category field.) Each of the mini-symposia will be headed by a 30 minute lead talk, which is intended to provide an introduction upon which the following contributed paper talks can rely to have set the stage. Thus, a contributed paper talk in a mini-symposium should, in principle, be able to convey much more detailed information in the allotted time than a contributed paper talk in a regular session. Abstracts not selected for a particular mini-symposium because of time constraints will be placed in a traditional contributed paper session. All DNP members are invited to contribute an abstract. Please note the new rules which state that a second contributed abstract by the same lead author will be placed in poster session and any additional abstract by the same lead author will not be included in the program.

It would assist the organizers of the min-symposia if a copy of your abstract intended for a particular mini-symposium (at least the title and authors) were sent to the organizer (listed in parenthesis following the mini-symposium sorting category) when submitted to the APS. Abstracts mis-directed to the wrong sorting category can then be more

easily located and properly inserted into the program at the sorters meeting.

Sorting categories for nuclear physics are:

E. NUCLEAR PHYSICS

- E1. Nuclear Astrophysics
- E2. Electroweak Interactions
- E3. Neutrino Physics
- E4. Electromagnetic Interactions
- E5. Ultrarelativistic Heavy-Ions
- E6. Nuclear Reactions: Heavy-Ions/Rare Isotope Beams
- E7. Nuclear Reactions: Hadrons/Light Ions
- E8. Nuclear Structure
- E9. Sub-nucleonic Degrees of Freedom
- E10. Hadronic Physics
- E11. Nuclear Theory
- E12. Instrumentation
- E13. Applications of Nuclear Physics
- E14a. Mini-symposium on Multi-Fragmentation (S. Yennello)
- E14b. Mini-symposium on Application of Density Functional Theory in Nuclei (E. Ormand)
- E14c. Mini-symposium on Advances in Applications of Low and Finite Temperature Lattic QCD (E. Ormand)
- E14d. Mini-symposium on Parton Distributions at Larger X: Data and Challenges (C. Keppel & H. Gao)
- E14e. Mini-symposium on Heavy Quark Energy Loss & Flow (T. Hallman, V. Greene, T. Schaeffer)
- E14f. Mini-symposium on Spin Structure of the Proton (T. Hallman, V. Greene, C. Keppel)
- E15. Other

14. ABSTRACT SUBMISSION

Complete abstract submission instructions can be found at the URL http://www.aps.org/meet/abstracts/meet-abstract.html.

The deadline for receipt of abstracts for the April meeting (APR06) is January 13, 2006 at 5:00 p.m. EST. You are strongly urged to proof your abstract before submission.

NOTE: Abstracts are no longer accepted via e-mail.

To submit a contributed abstract using the online web submission process, an author must know two things: (1) the number and ordering of authors and collaborators; (2) the abstract content. The web page will guide you through the rest.

Note: APS members are entitled to one oral contributed abstract. A second abstract by the same lead author will be assigned to a poster session

Try a test submission before submitting your abstract. Log onto http://abstracts.aps.org and select the meeting TEST. Follow the directions online to create your own practice abstract. When ready to submit your abstract online, select the meeting APR06 by clicking on the appropriate button. A form will be created for you. Simply input the information.

NOTE: Invited speakers should refer to their letters of invitation for instructions on locating the invited template.

If you have questions regarding abstract submission, please send them to abs-help@aps.org.

15. NATIONAL NUCLEAR PHYSICS SUMMER SCHOOL PLANNING (NNPSS), J. Beacom departing Chair and Krishna Kumar, incoming Chair

The NNPSS, which began in 1988, and typically has about 40 participants per year, is an essential educational component for a large fraction of the nuclear physics Ph.D. students in the U.S.A. Besides strengthening them technically, the NNPSS exposes students to the wide variety of topics in nuclear physics, as well as introducing them to their future peers and the leaders of the field. The unifying effects of the NNPSS benefit nuclear physics as a whole, and these effects are enhanced by the ongoing rotation of host institutions, lecturers, and NNPSS Committee members. Besides its continued popularity with students, advisors, and lecturers, the importance of the NNPSS is highlighted by the long-term financial support from the NSF, administrative support from the INT, and the endorsement and oversight by the DNP. The hosts for NNPSS 2006 (summer, dates to be determined) will be Adam Szczepaniak <aszczepa@indiana.edu> and Steve Vigdor < vigdor@indiana.edu> at Indiana University. The NNPSS Committee is now seeking proposals for hosting NNPSS 2007; please contact Krishna Kumar <kkumar@physics.umass.edu> for further information.

16. 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. A nomination form, which cites the principal contributions of the candidates to physics, should be prepared and signed by two members of the society. The total number of members who could 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 forms are available from the APS Home Page or can be obtained by sending an e-mail message to "fellowship@aps.org" or by calling (301) 209-3286. Completed forms should be returned to Dr. J. Franz at the same address. Information can also be found on the APS home page (http://www.aps.org); click on the word "fellowship". The nomination form can also be downloaded.

The 2006 DNP Fellowship Committee is comprised of D. F. Geesaman (Chair), C. R. Gould, M. J. Ramsey-Musolf, E. J. Beise, and J-C. Peng. 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 particularly 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 (by APS subunit) 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 of the Spring APS meeting.

17. NOMNATIONS FOR DNP DISTINGUISHED SERVICE AWARD

Nominations are sought for the Division of Nuclear Physics' Distinguished Service Award. This APS Unit Award is intended to recognize those who have made substantial and extensive contributions to the nuclear physics community through the activities of the DNP. The award will consist of a certificate with the citation specified by the selection committee and approved by the DNP Executive Committee. Nominees should be active or emeritus members of the DNP. There are no time limitations on contributions that can be recognized by this award. Nominations will remain active for three years. The award need not to be given each year. No more than two recipients will be selected in a given year. The selection committee will consist of the DNP Chair, Chair-Elect, Vice-Chair, Past-Chair, and Secretary-Treasurer. The DNP Chair will serve as the chair of the selection committee.

Nominations are due 28 February 2006 for the award to be given during the 2006 Fall Meeting. Nominations should be limited to a one page description of the candidate's contributions to nuclear physics through the DNP, plus an optional listing of positions held, major committee memberships, and the like. Duplicate nominations are not helpful. Five copies of the nomination should be sent to:

Bradley M. Sherrill NSCL Michigan State University East Lansing, MI 48824 phone: 517-333-6322 fax: 517-353-5967

18. TREASURER'S REPORT, B.F. Gibson

The back page of this newsletter contains a copy of the Treasurer's interim summary report to the DNP Executive Committee presented at HAW05 in Hawaii. The DNP Fund balance reflects all income and expenses associated with all past APS spring (April) meetings and all past DNP fall meetings. The substantial improvement in the balance from February 2002 through March 2004 reflects transmittal of the proceeds from several past fall meetings to the DNP's account with the APS. The Bethe Prize Fund is self sustaining and will continue to be so after the APS raises the prize level to \$10,000 in 2006. The Bonner Prize Fund is self sustaining at the current \$7,500 prize level, but the endowment must be raised to \$200,000 in order to support a \$10,000 annual prize. The Nuclear Physics Dissertation Award Fund is self sustaining at the current \$2,000 award level.

19. 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.

2005 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)*.

20. CANDIDATE BIOGRAPHIES

NOMINATIONS FOR VICE-CHAIR

Richard F. Casten — BS magna cum laude, College of the Holy Cross, 1963; PhD, Yale University, 1967. Postdoctoral fellow Niels Bohr Inst, 1967-69, LANL, 1969-71; asst. scientist BNL, 1971-73, assoc. scientist, 1973-76, scientist, 1977-81, sr. scientist; 1981-96, group leader nuclear structure group, 1981-96; professor physics, Dir. A.W. Wright Nuclear Structure Lab. Yale U., 1995--. Recipient Sr. Alexander von Humboldt prize, 1983. Fellow APS, AAAS, IOP (U.K.); Member NSAC, 1998-2000; Chair, NSAC 2003-2005; NSAC Long Range Plan Working Groups, 1989, 95, 2001; Member Executive Com. of DNP, 1991-93; DNP Fellowship Com. 1998; AAAS Nominating Com., 2002-2005; Can. NSERC Com. on subatomic physics, 1999-2001; Panel int'l rev. of standing and potential of physics research in U.K., 2001-2005; Chair, PAC for GSI-Fair Project, 2004, 2005; Chair N. Am. steering com. for Isospin Lab. Radioactive Beam Facility, 1989-2002; subCom. on implementation of long-range plan, 1991; U.S. rep. Megasci. Forum for Nuclear Physics, Subpanel on Intense Beams and Target Sys., 1997, 98; Kleinknecht Com. to develop the Joint Tech. Univ. München/U. München Maier Leibniz Laboratory 2001-; Grunder Task Force (NSAC) on the Technological Realization of an Advanced ISOL Facility, 1998-2000; IN2P3 Review Com. for PIAFE; IUPAP Com. on International Cooperation in Nuclear Physics, 2004, 2005; BNL Council 1986-89; Executive Com. for UNISOR ORNL, 1981; Users Executive Com. for HRIBF, 1993-1995; HRIBF PAC, 1995-1997; Chair, NSERC Com. for Review of DRAGON (TRIUMF), 1997; Com. for an exotic beam facility at the Univ. of Sao Paulo, 1997; Panel on basic nuclear data NAS, 1990- 92; Chair Phys. Rev. C Review Task Force, 1995; Associate Editor: Phys. Rev. C, 2001--; Editorial Board, Phys. Rev. C, 1988-90; Member editorial boards Nuclear Physics News Int'l, Int'l J. of Modern Physics, J. of Physics G, 1997-2000, Modern Physics Letters; co-organizer of 8 Int'l Conferences; author 2 textbooks on Nuclear Structure. Research Interests: nuclear structure, exotic nuclei, collectivity, dynamical symmetries, proton-neutron interactions, phase transitions.

Alice C. Mignerey — Professor of Chemistry, University of Maryland. Education: B.S. in Chemistry, University of Rochester, 1971; Ph.D. in Nuclear Chemistry, University of Rochester, 1975. Positions held: Postdoctoral Research Associate, Argonne National Laboratory, 1976-1979. Assistant Professor, University of Maryland 1979-1984; Associate Professor, University of Maryland 1984-1989; Professor, University of Maryland, 1989 - present. Acting Associate Dean for Research, University of Maryland, 1992-1994; Associate Chair for Graduate Studies, Department of Chemistry and Biochemistry, University of Maryland, 1993-1995. Program Officer for Nuclear

Physics, Physics Division, National Science Foundation, 1998-2001. Awards: Dreyfus Teacher-Scholar Award, 1984; Distinguished Scholar-Teacher Award, University of Maryland, 1988. Recent service: Chair of the Division of Nuclear Chemistry and Technology of the American Chemical Society, 1998; Nuclear Science Advisory Committee 2001-2005; member of the NSAC subcommittee to provide Guidance for Implementing the 2002 Long Range Plan (co-author of the section on the Nuclear Science Workforce). Currently a member of the DNP Executive Committee. Research Interests: Experimental studies of ultrarelativistic heavy-ion reaction mechanisms. Currently working at RHIC as a member of the PHOBOS Collaboration. Specific areas include nuclear flow measurements and particle production as a function of centrality and pseudorapidity and system size and energy.

NOMINATION FOR SECRETARY-TREASURER

Benjamin F. Gibson - Staff Member, Los Alamos National Laboratory, 1972-; Group Leader, 1982-86; B. A. Rice University, 1961; Ph.D. Stanford University, 1966; Post Doctoral Fellow, LLNL, 1966-68; NRC Post Doctoral Research Associate, NBS, Gaithersburg, 1968-70; Research Associate, Brooklyn College of the CUNY, 1970-72. APS Fellow, 1983; JSPS Research Fellow, Sendai, 1984; Murdoch Fellow, INT Seattle, 1992; Humboldt Research Award for Senior U.S. Scientists, Jülich, 1992-. DOE Users Review Panel, 1983; NSAC Subcommittee on Computers and Computing, 1984-85; Bates Program Advisory Committee, 1985-89, 1998-; LAMPF Program Advisory Committee, 1993; NSF Review Panel for IUCF, 1993; Few-Body Systems Topical Group Vice-Chair, Chair-Elect, and Chair, 1990-93; DNP Program Committee, 1990-92; Natural Sciences and Engineering Research Council of Canada, Subatomic Physics Grant Selection Committee, 1994-96; NSF Nuclear Theory Panel, 1997-98. Editorial Board of Physical Review C, 1978-79, 1987-88; Editorial Board of Few Body Systems, 1986-91, 1992-97, 1998-; Associate Editor of Physical Review C, 1988-92, 1993-97, 1998-2002; Editor of Physical Review C, 2002-. Organizing Committee for the DNP Fall Meeting, 1989; local organizer for the DNP Light Hadronic Probes Town Meeting, 1989; Co-Organizer of New Vistas in Physics with High Energy Pion Beams, 1992; Program Chair for the APS April Meeting, 1993; Co-Organizer of Properties and Interactions of Hyperons, 1993; Organizing Committee for Baryons'95, 1995; Organizing Committee for LUGI Symposium: 20 Years of Meson Factory Physics, 1996; Co-Organizer, ECT* Workshop, 1999; Co-Organizer, INT Workshop, 2001; Co-Organizer, INT Fall Program, 2003; Co-Organizer, ECT* Program, 2005; Organizing Committee for PANIC 2005. DNP Secretary-Treasurer, 1995-. Research interests: few-body systems, hypernuclei, electromagnetic interactions in nuclei, meson interactions with nuclei, parity nonconservation in nuclear systems, hadron structure.

NOMINATIONS FOR EXECUTIVE COMMITTEE

Jolie A. Cizewski - Professor of Physics, Rutgers University, 1986present; Vice Dean, Graduate School - New Brunswick, Rutgers, 2002present; Associate Chair and Director of Graduate Program in Physics and Astronomy, Rutgers, 1993-2002; Assistant Professor of Physics, Yale University, 1980-1986; Consultant, Livermore National Laboratory 1982-present; Postdoctoral staff member, Los Alamos National Laboratory 1978-1980; Ph.D. SUNY at Stony Brook, 1978; Research Assistant, Brookhaven National Laboratory, 1974-1978. Honors and awards: Fellow APS and AAAS; A.P. Sloan Foundation Fellow; 1997 Maria Goeppert-Mayer Scholar, Argonne National Laboratory. Service to nuclear science: Member, NSAC, 2000-03; Member, 2002 Long Range Plan in Nuclear Science Working Group; Member, Program Advisory Committees at LANSCE (LANL) and ATLAS (ANL); Member and Chair, ATLAS Users Group Executive Committee 1988-93 and 2000-02; Member, Gammasphere Users Executive Committee, 1995-96. DNP Committees: Bonner Prize,

Education (Chair 2003–present), Executive, Nominating, Program; APS Committees: Council and Executive Board, Nominating, Membership (Chair 1996), Lilienfeld Prize (Chair 1999); Member, Editorial Board, Phys. Rev. C; Member, Advisory Committee, AIP Statistical Research Center; Member, NRC Committees on Basic Nuclear Data Compilations (Chair 1989-92) and Bits of Power.

Research and Professional Interests: Structure of nuclei far from stability and at high angular momentum; new directions in graduate and postdoctoral education.

Jonathan H. Engel — Professor of Physics and Astronomy and Associate Chair (Director of Undergraduate Studies), University of North Carolina, 2004- present; B.S., Physics, MIT, 1981; Ph.D., Physics, Yale University, 1986; Weizmann Resarch Fellow, Caltech, 1986-89, Bartol Postdoctoral Fellow and Reserach Associate, Bartol Research Institute, 1989-93; Assistant Professor (1993-99), Associate Professor (1999-2004), University of North Carolina. Recent Activities: Divisional Associate Editor, Phys. Rev. C, 2002-present; Organizer, "Nuclear Structure Near the Limits of Stability" (Institute for Nuclear Theory program, fall 2005); Lecturer, National Nuclear Physics Summer School, 2005. Research Interests: fundamental symmetries in nuclei, neutrino physics, nuclear-structure theory, nuclear astrophysics.

Carl A. Gagliardi — Professor of Physics, Texas A&M University, 1996-present. B.S., Physics and Mathematics, Yale University, 1975; M.A., 1977, Ph.D., 1982, Physics, Princeton University. Research Associate, 1982, Physics Division, Argonne National Laboratory; Assistant Professor, 1982-88, Associate Professor, 1988-96, Physics Department, Texas A&M University; Visiting Scientist, TRIUMF, 2003. Activities: IUCF program committee, 1995-97; STAR Collaboration Council, 2001-05; NSF Nuclear Physics funding panel, 2002; STAR Publication and Talks Policy Committee (chair), 2002-05; Co-convener, STAR High-pT Physics Working Group, 2002-05; Nuclear Science Advisory Committee Subpanel on Heavy-Ion Physics, 2004; STAR Advisory Board, 2004-; RSVP Preliminary Baseline Review, 2005; Co-convener, RHIC II Forward/pA Working Group, 2005; Deputy Spokesperson, STAR Collaboration, 2005-. Awards: Texas A&M Association of Former Students University-wide Distinguished Achievement Award in Teaching, 2001; Fellow, APS, 2002. Research interests: QCD, fundamental interactions, and nuclear astrophysics.

Ulrich W. Heinz — Professor of Physics, The Ohio State University, since 2000. Senior Staff Member, Theoretical Physics Division, CERN, 1998-2000. Professor of Physics (C3), University of Regensburg, 1987-2000. Associate Physicist, Brookhaven National Laboratory, 1986-1987. Assistant Physicist, Brookhaven National Laboratory, 1984-1986. Habilitation, Johann Wolfgang Goethe-University, Frankfurt, 1984. Visiting Assistant Professor, Vanderbilt University, 1983-1984. Postdoctoral Research Associate, Johann Wolfgang Goethe-University, Frankfurt, 1982-1983. German National Academic Foundation Postdoctoral Fellow, Yale University, 1980-1982. Ph.D. in Theoretical Physics, Johann Wolfgang Goethe-University, Frankfurt, 1980. Several visiting appointments. American Physical Society Service: Hadronic Physics Topical Group Fellowship Committee (2002-2004, Chair 2002-2003). Division of Nuclear Physics Program Committee (2003-2005). Deutsche Forschungsgemeinschaft Gerhard-Hess-Prize (1988-1993), ECT* Senior Fellow (1996), Fellow of the American Physical Society (2001). National and International Committees: PS and LEAR Experiments Committee, CERN (1988-1990), SPS and LEAR Experiments Committee, CERN (1991), NuPECC Committee for European Nuclear Physics Long Range Plan (1996-1997), LHC and SPS Experiments Committees, CERN (1991-2001), DOE Annual RHIC Program Review Committee (2003), DOE/NSF NSAC Subcommittee to review the US heavy-ion nuclear physics program (2004). Editorial Boards: Acta Physica Hungarica New Series - Heavy-Ion Physics (1994-), Physical Review Letters (Divisional Associate Editor for Nuclear Physics, 1998-2000), Comments on Nuclear and Particle Physics (Editor in Chief, 1999-), Nuclear Physics A (Associate Editor,

2000-). Research interests include: Collective dynamics and space-time evolution of relativistic heavy-ion collisions and quark-gluon plasmas, intensity interferometry, quantum field theories for dense media in and out of thermal equilibrium.

Cynthia E. Keppel — Positions and Education: PhD in Experimental Nuclear Physics, The American University (1995); Hampton University (HU) Endowed Professor of Physics (faculty 1995 - present); Thomas Jefferson National Accelerator Facility (JLab) Staff Scientist (joint position, 1995 - present); Director, HU Nuclear and High Energy Physics Research Center (1999 - 2001); Director, Hampton University Graduate Studies at Jefferson Lab annual summer school (2002 present); Committee Service: Jefferson Lab User Group Board of Directors (current); APS DNP Program Committee (current); NIH National Advisory Research Resources Council (current); Chair, George B. Pegram Award Committee, SESAPS (current); (Co) Vice Chair APS Committee on the Status of Women in Physics (APS CSWP, 2002); Chair, APS CSWP Site Visit Chair (2001-2003); APS Committee on Minorities Member (1999-2000); US Vice Chair, Neutrino Interactions 2004 Other: Member, The Coordinated Theoretical-Experimental Project on QCD (CTEQ, current); Spokesperson, seven approved Jefferson Lab experiments (current); Institutional Representative, Fermilab MINERvA Experiment (current); Virginia Outstanding Faculty Award (2000); NSF CAREER Award (1996); SURA Thesis Prize (1999, advisor); U.S. patent 6389098, Dual Mode Stereotactic Localization Method and Application; AIP Blake Lilly Prize (1999) Research Interests: experimental studies of leptonnucleon and -nucleus scattering to probe nucleon structure, in particular the transition from perturbative to non-perturbative quantum chromodynamics

Steven E. Vigdor — Professor of Physics, Indiana University (1982present). Ph.D. in Physics, University of Wisconsin, 1973; Postdoctoral appointee and Research Associate, Argonne National Laboratory, 1974-6; Assistant (1976-9) and Associate (1979-82) Professor and Physics Department Chair (2000-2001), Indiana University; Visiting Scientist at CEN Saclay, France (1990-91) and at Lawrence Berkeley National Laboratory (2003-4). Fellow, American Physical Society. Deputy Spokesman, STAR Collaboration (2002-05). Advisory Committees: Nuclear Science Advisory Committee (1992-95); NSAC Long Range Plan Committees (1983,1989,1995,2001, consultant in 1979); NSAC Subcommittee on Implementation of the Long Range Plan (2005); Committee on Nuclear Physics for National Academy Physics Surveys (1983-84, 1996-99); Program Advisory Committees for IUCF (Chair, 1983), LAMPF (1991-93), CEBAF (1997-99); Advisory/Review Committees for TRIUMF (1982), Triangle Universities Nuclear Laboratory (1988-present), Argonne National Laboratory Physics Division (member, 1995-99, chair, 2000), Jefferson Laboratory (2002present), MIT Laboratory for Nuclear Science (2003-present). Senior Referee, Physical Review Letters (1980-81); Editorial Board, Physical Review C (1984-86,1991-94). APS Committees: Nominating Committee (1982-83); DNP Executive Committee (1986-88); DNP Nominating Committee (chair, 1988); DNP Program Committee (1992-94); DNP/NSAC Town Meeting Steering Committees (chair, Hadron Physics, 1995; member, Nuclear Matter and Hadrons at High Energies,

2000-01); DNP Fellowship Committee (1999-2000); Bonner Prize Research Interests: experimental intermediate- and high-energy hadron physics, especially polarization effects, studies of broken symmetries of the strong interaction, nucleon-nucleon scattering and nucleon spin structure.

21. FUTURE CONFERENCES

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

"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>.

"XXIX Symposium on Nuclear Physics," 3-6 January 2006

Toluca, Mexico. Contact: Tatyana Belyaeva, UAEM

E-mail: tbl@uaemex.mx

http://www.nucleares.unam.mx/~bijker/sfn29.html

"9th Conference on the Intersections of Particle and Nuclear Physics, CIPANP 2006,"30 May-3 June 2006

Rio Grande, Puerto Rico

Contact: David W. Hertzog, Chair E-mail: cipanp2006@uiuc.edu Phone: +1-217-333-3190

Fax: +1-217-333-1215

URL: http://cipanp.physics.uiuc.edu

"In Heaven and on Earth 2006: The Nuclear Equation of State in Astrophysics," 5-7 July 2006

Montreal, Canada, Contacts: C. Horowitz or R. Rutledge (co-chairs)

Email: horowit@indiana.edu

URL: http://www.heavenandearth06.org

"18th International IUPAP Conference On Few-Body Problems In Physics [Few-Body 18 (FB18)]" 21-26 August 2006

Santos, Brazil

Contact: Lauro Tomio (chair) Email: fb18@ift.unesp.br URL: http://www.fb18.com.br

"19th International Conference on Applications of Accelerators in Research and Industry, CAARI-2006,"20-25 August 2006

Ft. Worth, Texas

Contacts: Barney Doyle and Del McDaniel (co-chairs)

Email: caari2006@unt.edu URL: http://www.caari2006.com

2005 Washington Computation Symposium.pdf Committee (2005-06).

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TREASURER'S REPORT SEPTEMBER 2005

	3/31/05	3/31/04	2/28/03	2/28/02
DNP Fund Balance	\$298,866	\$252,646	\$ 152,316	\$ 62,276
	12/31/04	12/31/03	12/31/02	12/31/01
Bethe Prize	\$215,859	\$209,895	\$206,568	\$199,033
Bonner Prize	\$166,659	\$163,197	\$161,749	\$156,784
Dissertation Award	\$ 50,472	\$ 49,320	\$ 48,823	\$ 47,268