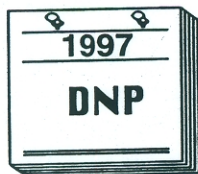


**TO: Members of the Division of Nuclear Physics, APS**  
**FROM: Benjamin F. Gibson, LANL – Secretary-Treasurer, DNP**

**ACCOMPANYING THIS NEWSLETTER:**

- A ballot for the DNP Election
- Post-deadline candidate biographies



**Future Deadlines**

- **15 January 1998** — DNP Election Ballot (see Item 1)
- **16 January 1998** — Last day for Abstracts to reach College Park, MD, APS Office for Spring Meeting (see Item 4)
- **1 April 1998** — Nominations for APS Fellowship (see Item 9)

**WWW Home Page for DNP**

A worldwide web home page for the Division of Nuclear Physics is currently available at "<http://www.phy.anl.gov/dnp/>". Each newsletter is posted on the web, in advance of the copy you receive in the mail. Other information of interest to DNP members, such as deadlines for meetings, prizes, nomination forms, and special announcements are listed there as well. We would like to hear your comments and suggestions. Please send them to Bob Wiringa at "[dnp@theory.phy.anl.gov](mailto:dnp@theory.phy.anl.gov)".

**1. ELECTION OF OFFICERS AND EXECUTIVE COMMITTEE FOR 1998**

The terms of the officers, one Divisional Councilor, 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 general meeting in Columbus, OH, 18–21 April 1998. Stuart J. Freedman will become Chair, Bunny C. Clark will become Past-Chair, and Walter F. Henning will become Chair-Elect. John P. Schiffer continues as a Divisional Councilor. Jolie Cizewski, Brad Filippone, and Konrad Gelbke will remain members of the Executive Committee. A Vice-Chair, Divisional Councilor, Secretary-Treasurer, and three members of the Executive Committee are to be elected before April 1997.

This year's Nominating Committee consists of K. T. Lesko (Chair), J. P. Schiffer, B. V. Jacak, M. J. Ramsey-Musolf, and B. D. Serot. The candidates selected by the Nominating Committee are as follows:

**Vice-Chair (one position):**

R. G. Hamish Robertson  
Jolie A. Cizewski

**Divisional Councilor (one position):**

Berndt Mueller  
J. Dirk Walecka

**Secretary-Treasurer:**

Benjamin F. Gibson

**Executive Committee (three positions):**

Richard J. Furnstahl  
I-Yang Lee  
Richard Milner  
Robert P. Redwine  
Xin-Nian Wang  
John F. Wilkerson

Candidate biographies are in Item 18.

The enclosed 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. It must be received by **Benjamin F. Gibson** on or before **15 January 1998** in order to be counted.

If you are a DNP member, please exercise your right to vote for candidates in the upcoming DNP election. Typically only about 800 election ballots are mailed in by members. Your vote counts. It is important!

**2. 1997 DNP MEMBERSHIP DROPS**

We have learned from the APS Membership Department that the number of DNP members has again decreased. As of 21 September 1997 (which does not include new members who joined at the Fall Meeting in Whistler) the numbers were:

	<u>1996</u>	<u>1997</u>
DNP	2,506	2,304
APS	40,857	37,401

The Division is concerned about the drop in membership from 1996, because your support as a member of the DNP is crucial to the functioning of the Division. This Newsletter is being sent to all



1996 DNP members, to encourage them to renew before 31 December, to be counted and to ensure continuity of service.

Some of you should have received a recent notice to renew your APS membership. We urge you to do so and to renew your DNP membership at the same time. We would like to remind those of you with a lifetime membership in the APS that you must renew your membership in the DNP on an annual basis.

If you have questions about your membership renewal, you may contact the APS Membership Department at 302-209-3272 or check under membership on the APS home page, "<http://aps.org/>".

### 3. REPORT ON THE DNP FALL MEETING IN WHISTLER, BC, 5-8 OCTOBER 1997

The Annual Fall Meeting of the Division of Nuclear Physics, co-sponsored by the Canadian Association of Physicists, including three workshops, was held October 5-8, 1997, at the Chateau Whistler Resort, in the town of Whistler BC. Whistler, which is located north of the Vancouver, is most famous as a world class ski resort. The countryside is a spectacular mix of fjords, mountains, alpine lakes, and glaciers, located next to the Pacific Ocean. The weather in October is variable, and it greeted the participants with rain before providing spectacular views after the clouds cleared. Fall colors around the Chateau were bright. On behalf of the DNP membership, the DNP Executive Committee is pleased to acknowledge the planning, hard work, and congenial hospitality of our hosts. Special thanks go to Willem van Oers, Chair of the Local Organizing Committee, and to Waltraud Dilling, Conference Secretary, for their excellent organization and the local arrangements and for the long hours they spent in preparing for the meeting. Members of the Local Organizing Committee were: John M. D'Auria (Simon Fraser University), David F. Measday (University of British Columbia), Gerald A. Miller (University of Washington), Jean-Michel Poutissou (TRIUMF), Gerald Roy (University of Alberta), Gregory R. Smith (TRIUMF), Willem T. H. van Oers, Chairman (University of Manitoba), and Erich W. Vogt (University of British Columbia/TRIUMF).

Registered participants at the meeting totaled 540, including some 100 student, retired, or unemployed attendees. More than 250 registered for the three workshops on Sunday that preceded the main meeting. A number of well-attended events highlighted the main meeting. The Monday morning plenary session in memory of Chien-Shiung Wu was held in the Frontenac Ballroom to accommodate the large audience. C. N. Yang provided a fascinating biographical sketch; C. E. Wieman discussed atomic parity violation and the nuclear anapole moment; V. Yuan summarized epithelial neutron studies of parity violation in nuclear resonances and provided some personal remarks about his mother; M. Goldhaber presented an historical perspective as well as a status report on investigations by the Super-Kamiokande collaboration. Peter Rosen spoke on "A New A.D.'s View of HENP" in his talk at the Town Hall Meeting on Tuesday afternoon. A reception to honor D. L. Hendrie was held prior to the banquet; Stuart Freedman inspired a number of laboratories and institutions to bring "items of no value" to remind Dave of his years of service. More than 325 attended the banquet to hear after-dinner speaker, Dr. C. G. Salvo of JPL, the flight director for the recent Mars adventure. His "Mars Exploration Meets the 98-Cents Store" (the cost of the mission was less than \$1/U.S. citizen) was punctuated with video simulations of the bouncing landing plus slides (some in 3D) of the rock exploration by the surface explorer. Seven User Group meetings were held on Monday evening: HRIBF,

TJNAF (CEBAF), 88-Inch Cyclotron/GAMMASPHERE/ATLAS, ISL, Bates (BLAUGI), and NSCL. Potential users of LISS met informally over dinner.

The meeting consisted of a plenary session, a Town Hall Meeting, five sessions of invited talks, four mini-symposia, and 23 sessions of contributed papers. Two sessions of invited papers were on topics selected at the April Program Committee meeting: "Probing Chiral Perturbation Theory," arranged by W. van Oers, D. Skopik, and R. Roy, and "Recent Results with Intermediate Energy Hadron Probes," arranged by S. Wissink. Two voted sessions were selected by ballot of the Program Committee from speaker nominations by the DNP membership and arranged into sessions by the Program Committee Chairman, Stuart Freedman: "Weak Interactions and Spin Structure" and "Diverse Aspects of Hadronic Matter." The Local Organizing Committee provided a fifth session of invited talks: "Discrete Symmetries." A tour of TRIUMF was offered following the meeting, on the morning of Thursday, October 9, 1997. Bus service was arranged from the Chateau Whistler Resort to TRIUMF.

#### DNP97 Workshops. W. T. H. van Oers

Three parallel workshops were held on Sunday: "Symmetries," organized by W. C. Haxton and E. M. Henley, "Electromagnetic Dynamics of Mesons and Nucleons," organized by Jack Bergstrom, Donald F. Geesaman, and Richard G. Milner, and "Radioactive Beams and Nuclear Astrophysics," organized by John M. D'Auria and James D. King.

A summary of the Electromagnetic Workshop was provided by the organizers: R. Beck reported on recent Mainz measurements of pion photoproduction from the proton using polarized photons. Neutral pion production in the threshold region provides the first determination of the photon asymmetry parameter at low energy, which in turn will permit a unique separation of the  $P$ -wave multipoles. Measurements of neutral and charged pion production in the  $\Delta(1232)$  region yields a value for the  $E2/M1$  ratio of about  $-2.5\%$ . P. Stoler described new Jefferson Laboratory results on neutral pion and eta electroproduction from the proton in the  $\Delta(1232)$  and  $S_{11}(1535)$  regions at high momentum transfer. One question addressed is how the  $E2/M1$  ratio varies with  $Q^2$  as the constituent quarks, current quarks, and finally the valence quarks change in their respective contributions to the reaction mechanism. Preliminary evidence suggests that  $E2/M1$  is slowly changing, and indicates that measurements at still larger  $Q^2$  are essential. A. Sarty gave an overview of the Mainz experimental program on studies of the  $(e, e'p)$  reaction in  $^3\text{He}$  and  $^4\text{He}$ , both at the peak and on either side of the quasielastic peak, and for a wide range of missing energies and momenta. Through separation of the longitudinal and transverse response functions the study aims to understand the apparent excess strength reported for the transverse function in heavier nuclei. D. Hornidge reported on SAL measurements of elastic photon scattering by deuterium at around 100 MeV. While this reaction is sensitive to the polarizabilities of both nucleons, reliable information on the nucleon polarizabilities so far exists only for the proton. A preliminary result for the  $D(\gamma, \gamma)D$  differential cross section is in marked disagreement with current models of the reaction. T. O'Neill presented recent work from the HERMES experiment at DESY, focusing on the diffractive production of the rho meson from  $^1\text{H}$ ,  $^2\text{H}$ , and  $^3\text{He}$ . Such measurements provide insight into the hadronic structure of the photon. Included in the discussion was a preliminary estimate of the nuclear transparency of  $^3\text{He}$  and the influence of initial- and final-state interactions. R. Alarcon reported new measurements of the  $(e, e'p)$  reaction on  $^2\text{H}$  and  $^{12}\text{C}$  with polarized electrons, using the out-of-plane spectrometers (OOPS) at the MIT-



Bates facility. Both quasielastic and non-quasielastic kinematics are being investigated. The aim is to examine the transverse-longitudinal interference response functions, which provide particularly sensitive testing grounds for models of the transition current, the basic reaction mechanism, or final-state interactions, depending on the choice of kinematics. J. Reinhold described recent Jefferson Laboratory results on the electroproduction of positive kaons from deuterium using the Short Orbit Spectrometer and the High Momentum Spectrometer. Missing-mass spectra display clear evidence of production (from the proton) and production from both nucleons with unprecedented resolution. Comparison with the same reaction for the free proton provides an estimate of the electroproduction cross section for the neutron.

#### 4. THE APS/AAPT SPRING MEETING IN COLUMBUS, OH, 18-21 APRIL 1998

The 1998 APS/AAPT Spring Meeting will be held in Columbus, OH, April 18-21, *Saturday through Tuesday*. The Division of Nuclear Physics will organize five sessions of invited papers. One will be the DNP Prize Session: Bonner Prize, Bethe Prize, Dissertation Award, and Maria Goeppert-Mayer Award. The 1997 Program Committee arranged two sessions at its 5 October Whistler meeting: 1) "Recent Results from Modern Electromagnetic Facilities/ Detectors" (E. Kinney on Nucleon Spin Structure from HERMES, P. Markowitz on First Results on Electroproduction of  $\omega$  Vector Mesons, J. McIntyre on Physics with Focal Plane Polarimeters at MIT-Bates and Jefferson Lab, and A. Ahmidouch on Results from the  $t_{20}$  Experiment at Jefferson Lab); 2) "Have We Seen the Quark-Gluon Plasma?" (D. Kharzeev on  $J/\Psi$  Suppression: Quark Gluon Plasma, Hadron Gas, or ?, J. Wurm on Experimental Results on Low and Intermediate Mass Lepton Pairs, V. Koch on Intermediate Mass Lepton Pairs, Hadron Mass Shifts, and the Nuclear Medium). Two additional sessions will be chosen by ballot of the Program Committee from nominations submitted by the DNP membership. Joint invited speaker sessions will be arranged with the Division of Astrophysics, the Division of Beam Physics, the Division of Particles and Fields, the Precision Measurements and Fundamental Constants Topical Group, and the Few-Body Systems Topical Group.

Mini-symposia (focused sessions of contributed papers led by an invited talk designed to summarize the topic and highlight important issues and open questions) are being organized in five areas. Contributed abstracts from the DNP membership are hereby solicited. Please note the proper sorting category for each mini-symposium, so that your abstract can be directed to the right session. In the case that the number of abstracts submitted for a given session exceeds the time allotted, some abstracts will be transferred to an appropriate regular contributed paper session. The sorting categories, topics, and Program Committee organizers are:

- 11a Mini-symposium on "Nuclear Physics with Gammasphere" (Jerry Garrett and Lee Riedinger)
- 11b Mini-symposium on "Nonrelativistic QCD" (Roxanne Springer)
- 11c Mini-symposium on "The Nuclear Liquid-Gas Phase Transition" (Gary Westfall)
- 11d Mini-symposium on "Magnetic Rotation in Nuclei" (David Fossan)
- 11e Mini-symposium on "Current Issues in Light Front Field Theory and Phenomenology" (Roxanne Springer)

The Columbus Meeting will provide an experimental test of a new general meeting format. The early morning sessions for the first

three days will be of a plenary format. Come and evaluate the experiment. Plenary talks being organized at press time included:

1. Physical properties of DNA
2. New understanding of the structure of the universe (Hubble telescope, etc.)
3. Bose-Einstein condensates
4. High  $T_c$  superconductors, and their applications
5. The Hidden Curriculum: What do we really want our students to learn?
6. Gamma ray bursters
7. Current evidence regarding the quark gluon plasma
8. Advanced Accelerator Concepts
9. Breaking the electroweak symmetry; why it has to happen and its implications

#### 5. PUBLICATIONS COMMITTEE REPORT, B. Mueller

In an effort to enhance the visibility of publications in the Rapid Communications section of *Physical Review C*, the DNP Publications Committee has concurred with the Editor's recommendation to add the word 'Rapids' to the bibliographical notation. The citation of an article that appeared in this section would read: *Physical Review C Rapids* vol., page (year).

The decision by the Editor to increase the size of the *Physical Review C* Editorial Board to 15 members from 12 members over the next three years, to allow for more foreign representation, was approved. Five new members of the Editorial Board with terms starting in January 1998, were approved: Walter Benenson, Barbara V. Jacak, Richard G. Milner, Che Ming Ko, and Anthony W. Thomas. Continuing members of the Editorial Board are: Roy J. Holt, Teng Lek Khoo, D. John Millener, and Werner Sandhas (class of 1998); A. Baha Balantekin, Avraham Gal, Gottfried Muenzenberg, and Michael Wiescher (class of 1999).

#### 6. FUTURE DNP FALL MEETINGS

1998	October 28-31	Santa Fe, NM
1999	October	Asilomar, CA
2000	October	Williamsburg, VA

#### 7. APS CENTENARY MEETING, ATLANTA, 20-26 MARCH 1999, V. R. Brown

The APS will celebrate its 100th year anniversary in 1999. The March and April meetings will be combined with the AAPT for a mega-meeting celebration to be held in Atlanta on 20-26 March 1999, less than 16 months away. The pomp and circumstance events, luncheons, banquets, symposia, evening events, etc. will be featured on Saturday and Sunday of the seven-day meeting. The program and celebration will be international in character and involve the leadership in physics, science, and science policy worldwide. Nuclear physics quietly celebrated its own 100th year in 1996. Our rich history is an important part of the last century, and we would like to participate fully by incorporating it into the APS Centenary Celebration.

Besides the celebration in Atlanta, there will be year-long events featuring a time-line Wall Chart and a Centenary Speakers Bureau.



The centenary physics talks will include an historical, societal, developmental and/or a technological context. A Centenary Speaker's Booklet listing the speakers, topics, geographical location, level, etc., for each speaker will be published and widely distributed to colleges, universities, laboratories, high school teachers groups, encouraging the recipients to schedule one or more talks at their institution to celebrate the Centenary. The "wall chart" will present a history of physics with an emphasis on the 20th century. The context for physics will emphasize its contributions to basic and applied knowledge as well as its role in culture and technology.

## 8. 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." 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 normally 1 April. Nomination forms are available from Peggye Mendoza, The American Physical Society, One Physics Ellipse, College Park, MD 20740-3843. 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 1998 DNP Fellowship Committee is comprised of L. L. Riedinger (Chair), A. B. Balantekin, C. Glashauser, R. F. Casten, and S. J. Seestrom. 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.

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 done at least one major, original work that has influenced his/her specialty in a significant way.

The list of APS Fellows (by APS subunit) elected in a given year 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.

## 9. 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, R. Middleton 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. Bolinger, 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, and J. D. Walecka, and R. G. H. Robertson.

The purpose of this prize, which currently consists of \$5000 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 will 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 has 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.

The Bonner Prize Committee recommendation for the 1998 award has been forwarded to the APS Council for approval. Watch for the announcement in the February Newsletter and in *APS News*. Nominations for the 1999 award will be due by 1 July 1998.

## 10. HANS A. BETHE PRIZE IN NUCLEAR PHYSICS AND ASTROPHYSICS

The annual prize was approved by the APS Council in May 1996 and announced at Hans Bethe's 90th birthday celebration at Cornell. Due to the generosity of more than 400 individuals, universities, national labs, and friends from industry, approximately \$166K was raised, 110% of the revised goal. The first of the annual prizes will be awarded at the spring General Meeting of the APS in April 1998.

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 the areas of astrophysics, nuclear physics, nuclear astrophysics, or closely related fields. It is open to any scientist working in these areas, worldwide. 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 has 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.

The Bethe Prize Committee recommendation for the 1998 award has been forwarded to the APS Council for approval. Watch for the announcement in the February Newsletter and in *APS News*. Nominations for the 1999 award will be due by 1 July 1998.

### 11. 1999 DISSERTATION AWARD IN NUCLEAR PHYSICS

This prize, which recognizes a recent Ph.D. in nuclear physics, has been made an annual award. It 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, and Greg Schmid. Watch for the announcement of the 1998 winner in the February Newsletter and in *APS News*.

**Nature:** The award consists of \$1000 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 1998. Nominations made for the 1998 award, which fit the criteria, will remain active. Nominations for the 1999 award will be due by 1 July 1998.

### 12. NEW AND IMPROVED PRC-ONLINE AND PRL-ONLINE

The American Physical Society is pleased to announce the Model 1.5 release of PRC-online and PRL-online, which includes new features 1 to 3 below. Feature numbers 4 through 7 have been added as part of the APS' continuing efforts to improve its online offering, though not tied specifically to any regularly scheduled upgrade.

1. Links to INSPEC and SPIN abstracts are now available in the reference section, which can be formatted easily to show up by default beneath each abstract. (INSPEC coverage is from 1969 to present; SPIN coverage is from 1975 to present).
2. Cross-links to editorially related articles are now available in abstracts, e.g., cross-links within a series (Papers I and II), from a Comment to the subject of the Comment and to the Reply, from a paper to its Erratum.
3. PostScript viewing is now available in addition to PDF. You can select the PostScript option by clicking on "More Options" from any abstract or from any HTML table of contents.
4. Passwords can now be changed by individual subscribers.
5. PDF files can now be viewed directly from the HTML table of contents.
6. Advance Listings links on the entry page take users to listings of upcoming papers in other APS journals, offering abstracts of those papers that were submitted electronically and links to tables of contents of published issues.
7. Online links on the entry page take users to other APS journals.

### 13. NUCLEAR PHYSICS HOME PAGE NEWS, T. J. Bowles and C. E. Jones

As many of you have seen by now, a new DNP Home Page has been put on the Web at the URL <http://www.phy.anl.gov/dnp>. The intention of the new home page is twofold: to provide useful information and services to members of the DNP and to provide a source from which the public can obtain information about nuclear physics as well as connections to related disciplines. Through the Web we have an important opportunity to inform the public about the kind of work that nuclear physicists are involved in. We are in an exciting field of research, and this needs to be reflected on our home page.

We thank Baha Balantenkin and his students, who maintained the DNP Home Page for several years, for their stewardship and welcome the new webmaster, Bob Wiringa, who constructed the current version of the home page.

On the home page, nuclear physicists can find links to an online version of the Nuclear Physics brochure and the Long Range Plan, an extensive list of links to facilities doing nuclear physics or closely related science, and general information about meetings, deadlines, DNP committees, awards, newsletters, etc. At the top of the home page we have a "Current Research Topics" section which highlights a particular research effort in our field. This topic will be changed every one to two months, with previous topics archived so that they can also be viewed. The intent of this section is to inform nuclear physicists of progress in research areas outside their specialty and to advertise the diversity of our field to the general public.

We invite you to send in short write-ups about your current research for highlighting in the Current Research Topics sections. The description of the research should begin with a short paragraph written at a level understandable by the general public. This can be followed by a more detailed description of the work at a level suitable for a general physics audience. Links to home pages describing the work in more detail are encouraged. The Home Page Committee will decide which topics are put online and a definite factor in the decision will be how professional and interesting the write-ups are. Get creative and come up with some really great looking articles! We have some beautiful research to showcase and we want to make sure that message gets out clearly to the public.

We plan to modify the layout of the home page and to add several additional features, including a section on exciting recent news in nuclear physics, a job posting, a section on the history of nuclear physics, and links to educational material the DNP Education Committee is preparing.

We welcome suggestions about how to make the home page more visually interesting in addition to improved content, additional useful links, and contacts. We are trying to make the Home Page fairly transparent to use so that you can reach the information you want quickly and easily. So tell us what works and what doesn't. We need to hear from you. Please send your comments to [dnp@theory.phy.anl.gov](mailto:dnp@theory.phy.anl.gov) or click on the home page.

### 14. EDUCATION COMMITTEE NEWS, Peggy McMahan

The DNP Education Committee met during the DNP97 meeting in Whistler with members of the Executive Committee and representatives from NSF and DOE. The Nuclear Science Wallchart



was field tested last spring; results were incorporated into a final version. The Wallchart will be sent to the publishers in January. It is to be sold through Science Kit. A Teacher's Guide has been drafted and is presently being reviewed by Committee members; it will also be sold through Science Kit.

The next phase of the Wallchart project is to put the material on the Web. The plan is to use this as a starting point for an Education and Outreach section of the DNP Web site, working together with the DNP Home Page Committee.

In the next few weeks, you will receive a survey from us designed to determine what kind of educational and outreach activities are being pursued now by members of our division. The funding agencies have requested that we gather this information and publish it in a form that can be used in interactions with Capitol Hill. It is most important that everyone respond.

#### 15. NUCLEAR PHYSICS SUMMER SCHOOL, B. R. Barrett

The Steering Committee for the Nuclear Physics Summer School (NPSS) requests proposals for hosting the 1999 summer school. Information on previous summer schools can be found on the DNP website:

<http://nucth.physics.wisc.edu/dnp/>

Questions regarding the NPSS and proposals should be directed to Bruce Barrett, Chair of the Steering Committee ([bbarrett@physics.arizona.edu](mailto:bbarrett@physics.arizona.edu)) or Walter Henning, Vice-Chair of the Steering Committee ([henning@anl.gov](mailto:henning@anl.gov)). The deadline for proposals is April 1, 1998.

#### 16. C12 HOME PAGE, A. W. Thomas

The IUPAP Commission C12 has a home page, which can be accessed under the URL

<http://www.physics.adelaide.edu.au/itp/C12/C12.html>

Many of you would find interesting reading. A note about the activities of ICNP and the OECD working party on nuclear physics from Erich Vogt was recently posted. Look for:

October 1997: A report on the activities of ICNP and the OECD Megascience Working Group on Nuclear Physics.

#### 17. ANNUAL REVIEWS OF NUCLEAR AND PARTICLE SCIENCE

The Division has continued the agreement with Annual Reviews, Inc., which will enable DNP members to obtain copies of the "Annual Review of Nuclear and Particle Science" at a 30% discount when purchased through the DNP Secretary-Treasurer, Benjamin F. Gibson, Los Alamos National Laboratory, DNP, MS B283, Los Alamos, NM 87545.

**1996-97 Prices:** The dual prices (separated by a slash) listed below correspond to USA/other countries including Canada. Volumes 13-29 and 35-41 are \$55/\$60 retail and \$39/\$42 for DNP

members. Volumes 42 and 43 are \$59/\$64 retail and \$42/\$45 for DNP members. Volumes 44 and 45 are \$62/\$67 retail and \$44/\$47 for DNP members. Volume 46 is \$67/\$72 retail and \$47/\$51 for DNP members. Volume 47 is \$70/\$75 retail and \$49/\$53 for DNP members.

Other Annual Reviews 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.annurev.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.

Payment (payable to the Division of Nuclear Physics-APS) must accompany your order and must be in U.S. funds. California orders must add applicable sales tax. *Since 1 January 1991, all orders shipped to Canada require the addition of a 7% General Sales Tax.*

#### 18. CANDIDATE BIOGRAPHIES

##### NOMINATIONS FOR VICE-CHAIR

ROBERT GRAHAM HAMISH ROBERTSON — Professor of Physics, University of Washington, 1994-present; Staff Member, Los Alamos National Laboratory, 1981-94, Laboratory Fellow, 1988; Faculty of Physics, Michigan State University, 1971-81, Professor, 1981; Sloan Fellow, 1976; Ph.D., McMaster University, 1971; undergraduate degree at Oxford University. Visiting Appointments: Princeton University, Argonne National Laboratory, and Chalk River Nuclear Laboratories. Member of the Canadian Association of Physicists, Associate Member of the Institute of Physics (London), and Fellow of the American Physical Society. Awarded the APS Tom W. Bonner Prize in 1997. Chair, Nuclear Science Advisory Committee; NSAC Instrumentation Subcommittee. Served on Board of Physics and Astronomy of the National Research Council, NRC Nuclear Physics and Neutrino Astrophysics Panels, APS-DNP Executive Committee and Program Committee, APS Bonner Prize Committee, the NSERC (Canada) Grant Selection Committee, Review Committees for the Lawrence Berkeley Laboratory Nuclear Science Division and Caltech's Physics, Mathematics and Astronomy Division, the Editorial Board of *Physical Review D*, and review panels for the National Science Foundation and the Department of Energy. Research Interests: Parity violation, nuclear astrophysics, nuclear reactions, neutrino mass via tritium beta decay, and solar neutrino physics.

JOLIE A. CIZEWSKI — Not available at press time.

##### NOMINATION FOR DIVISIONAL COUNCILOR

BERNDT MUELLER — Professor of Physics, Duke University, 1990-present; Associate Professor, Universität Frankfurt, 1976-89; Research Associate, University of Washington, 1974-75; Postdoctoral Fellow, Yale University, 1974; Ph.D. 1973 (summa cum laude), Universität Frankfurt. Fellow APS, AAAS; Röntgen Award, 1975; James B. Duke Professor, 1996; DNP Program Committee, 1990-92; Nuclear Science Advisory Committee, 1992-95; BNL Physics Department Visiting Committee, 1992-95; Divisional Associate Editor, *Physical Review Letters*, 1992-94; Convener, DPF Long Range Planning Study, 1994; Writing Group Chair, Nuclear Physics Long Range Plan, 1995; DNP Executive Committee, 1996-97; DNP Fellowship Committee, 1996-present; National Advisory Committee (Chair), Institute for Nuclear Theory,



1995–present; DNP Publication Committee, 1997–98, SURA-Jefferson Lab Review Committee, 1997. Research Interests: Theoretical nuclear physics, relativistic heavy ion collisions, quantum chromodynamics, physics of strong fields.

JOHN DIRK WALECKA — Governor's Distinguished CEBAF Professor, College of William and Mary; Scientific Director, CEBAF, 1986–92; Senior Fellow, CEBAF, 1992–97; Professor of Physics, Stanford University, 1966–87; Associate Professor, 1962–66; Assistant Professor, 1960–62; Professor Emeritus, 1987–present; Sloan Foundation Fellow, 1962–66; NSF Postdoctoral Fellow, Stanford, 1959–60, and CERN, 1958–59; Ph.D., Nuclear Theory, MIT, 1958; B.A., Harvard, 1954; Chairman, Department of Physics, Stanford, 1977–82), and Department of Physics, College of William and Mary, 1994–present; Nordita Guest Professor, Copenhagen and Trondheim, 1973; Argonne Fellow, 1982–83; Friedlander Panel on Future of Nuclear Science NAS/NRC, 1975–77; Initial NSAC, 1977–79; NSAC Long-Range Planning Group, Boulder, 1989, and Caltech, 1995; Executive Committee, DNP, 1976–78, 1984–86, 1993–97; Acting Chair, DNP, 1994–95; Chair, DNP, 1995–96; Fellow, American Physical Society, 1971; Gores Award for Excellence in Teaching, Stanford, 1971; Schiff Lecturer, Stanford, 1991; Bonner Prize, APS, 1996; Research Interests: Theoretical nuclear and subnuclear physics – nuclear structure, the relativistic nuclear many-body problem, strong-coupling QCD, electroweak interactions with nuclei.

#### NOMINATION FOR SECRETARY-TREASURER

BENJAMIN F. GIBSON — Staff Member, Los Alamos National Laboratory, 1972–present; 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–present. DOE Users Review Panel, 1983; NSAC Subcommittee on Computers and Computing, 1984–85; Bates Program Advisory Committee, 1985–89; 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. Editorial Board of *Physical Review C*, 1978–79, 1987–88; Editorial Board of *Few Body Systems*, 1986–91, 1992–present; Associate Editor of *Physical Review C*, 1988–92, 1992–present. 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 Chairman 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. DNP Secretary-Treasurer, 1995–present. 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

RICHARD J. FURNSTAHL — Associate Professor of Physics, The Ohio State University, 1995–present; Assistant Professor of Physics, The Ohio State University, 1991–95; Assistant Research Scientist, University of Maryland, 1990–91; Postdoctoral Research

Appointment, University of Maryland, 1987–90; Postdoctoral Research Fellow, Indiana University, 1985–87; Ph.D., Physics, Stanford University, 1986; B.S., physics, Massachusetts Institute of Technology, 1981; NSF National Young Investigator, 1992; Sloan Foundation Fellow, 1992–96; IUCF Program Advisory Committee, 1992–95; APS Maria Goeppert-Mayer Award Committee (Vice-Chair and Chair), 1993–95; APS Research at an Undergraduate Institution Award Committee (Vice-Chair and Chair), 1997–98; APS DNP Education Committee, 1997–present; Research Interests: quantum chromodynamics and nuclear phenomena; effective hadronic field theories; relativistic field theory at finite temperature and/or density.

I-YANG LEE — Not available at press time.

RICHARD G. MILNER — Associate Professor of Physics, MIT, 1993–present; Assistant Professor, MIT, 1988–93; Research Fellow, Caltech 1985–88; Ph.D. Caltech 1985; M.Sc. National University of Ireland, 1979; B.Sc. National University of Ireland 1978. Research Interests: Electromagnetic study of strongly interacting systems to probe fundamental questions, spin and charge distribution of the nucleon, spin structure of few-body systems. Over last decade he has carried out experiments at SLAC, Bates, IUCF, and DESY. Co-spokesman, HERMES Collaboration, 1988–93; Spokesman, HERMES Collaboration, 1995–97; Co-chair BLAST Steering Committee; Member, TJNAF PAC 1993–96; Member, Bates PAC 1995–present.

ROBERT P. REDWINE — Professor of Physics, MIT, 1990–present; Director, Laboratory for Nuclear Science, MIT, 1992–present; A.B., Physics, Cornell University, 1969; Ph.D., Physics, Northwestern University, 1973; Visiting Professor of Physics, Princeton University, Spring 1989; Visiting Professor of Physics, Rutgers University, Fall 1988; Associate Professor of Physics, MIT, 1982–90; Assistant Professor of Physics, MIT, 1979–82; Staff Scientist, Los Alamos National Laboratory, 1977–79; Forschungsassistent, University of Berne, Switzerland, 1974–75; Research Associate, Los Alamos National Laboratory, 1973–74, 1975–77; LAMPF Technical Advisory Panel, 1979–81; LAMPF Program Advisory Committee, 1981–84; LAMPF Users Group Board of Directors, 1982–84; Nuclear Science Advisory Committee, Long Range Planning Committee, 1983; Swiss Institute for Nuclear Research, Program Advisory Committee, 1984–93 (Chair, 1988–93); Netherlands Institute for Nuclear and High Energy Physics, Program Advisory Committee, 1984–89; Chair, LAMPF Users Group, 1985; TRIUMF Program Advisory Committee, 1985–88; Bates Users Group Board of Directors, 1986–88; APS Bonner Prize Committee, 1986–87 (Chair, 1987); Indiana University Cyclotron Facility, Program Advisory Committee, 1987–90; Bates Linear Accelerator Center, Program Advisory Committee, 1988–91; Nuclear Science Advisory Committee, Long Range Planning Committee, 1989; Chair, APS/DNP, Nominating Committee, 1989; LAMPF Program Advisory Committee, 1990–93; *Physical Review C* Editorial Board, 1990–93; NSERC (Canada) Subatomic Physics Committee, 1990–93; NSF Advisory Committee for Physics, 1990–93; LAMPF Users Group Board of Directors, 1992–94; Chairman, NSF Committee to Review Large Medium Energy Facilities, 1992; Nuclear Science Advisory Committee, Long Range Planning Committee, 1995; DNP Program Committee, 1995–1996; *Physical Review Letters* Divisional Associate Editor, 1995–present; Indiana University Cyclotron Facility Visiting Committee, 1995–present; Brookhaven National Laboratory Visiting Committee, 1996–97; Nuclear Science Advisory Committee, 1995–present. Research Interests: Intermediate energy physics, especially pion scattering and reactions, photo-pion and photo-nucleon reactions, nucleon and few-nucleon structure, and medium energy tests of weak interaction properties.



XIN-NIAN WANG — Senior Staff Scientist, Lawrence Berkeley National Laboratory, 1997–present; Ph.D., University of Oregon, 1989; M.S., Institute of High-energy Physics, Academia Sinica, 1985; B.S., Shandong University, 1982; Divisional Fellow, Lawrence Berkeley National Laboratory, 1992–97; Research Associate, Duke University, 1991–92; Postdoctoral Fellow, Lawrence Berkeley National Laboratory, 1989–91; Guest Professor, Southwest Jiaotong University, China, 1996–present. Honors: Natural Science Award, Academia Sinica, 1991. Lead Organizer of INT'98 Spring Program; Panel Member of the Review Committee of the Theoretical Nuclear Physics Program at BNL; Co-convenor of the Hard Probes Collaboration group, 1994–present. Research Interests: Theoretical high-energy nuclear physics, relativistic heavy-ion collisions, perturbative QCD in nuclear environment, multiple particle production in high-energy collisions.

JOHN F. WILKERSON — Professor of Physics, University of Washington, 1994–present; Ph.D., University of North Carolina, 1982; UNC Graduate School Research Fellow, 1980–81; Postdoctoral Fellow, Los Alamos National Laboratory, 1982–84; Staff Member, Physics Division, Los Alamos National Laboratory, 1984–94; Adjunct Professor, North Carolina State University, 1996–present; Organizing Committee, Rencontre de Moriond Workshop, 1990–93; Organizer, 1992 High Energy Physics Snowmass Workshop, Solar Neutrino Sessions; APS Committee on Meetings, 1996–present; Program Committee, APS Division of Nuclear Physics, 1996–present. Honors: Sigma Xi, 1982; Los Alamos National Laboratory Distinguished Performance Award, 1990; Research Interests: Weak interactions, solar neutrinos, fundamental symmetries, neutrino physics, nuclear astrophysics.

## 19. FUTURE CONFERENCES

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

“Solar Neutrinos: News About SNU,” 2–6 December 1997, Institute for Theoretical Physics, Santa Barbara, CA. Organized by John Bahcall, Wick Haxton, Paul Langacker, Hamish Robertson, and Yoji Tosuka. Contact: Conference Secretary, Dorene Sexton Iverson, ITP, University of California, Santa Barbara, CA 93106, Telephone: 805-893-3178, Fax: 805-893-2431, email:

dorene@itp.ucsb.edu, WWW: <http://www.itp.ucsb.edu>. Submit contributed abstracts to [snu@emmy.phys.washington.edu](mailto:snu@emmy.phys.washington.edu).

“XXI Nuclear Physics Symposium at Oaxtepec,” 5–8 January 1998, Oaxtepec, Mexico. Contact: Dr. Jaime Besprosvani, Instituto de Fisica de la UNAM, Apartado Postal 20-364, 01000 Mexico, D.F., Mexico, Telephone: +52-5-6225014, Fax: +52-5-6161535/6225015, email: [bespro@teorica0.ifisicacu.unam.mx](mailto:bespro@teorica0.ifisicacu.unam.mx), WWW: <http://www.nuclecu.unam.mx/oaxtepec/oaxtepec.html>.

“Workshop on Nonperturbative Methods in Quantum Field Theory,” 2–13 February 1998, Special Research Centre for the Subatomic Structure of Matter and the National Institute for Theoretical Physics, University of Adelaide, Australia. Contact: Dr. Andreas Schreiber, email: [aschreib@physics.adelaide.edu.au](mailto:aschreib@physics.adelaide.edu.au), WWW: [http://www.physics.adelaide.edu.au/cssm/workshops/qft\\_98.html](http://www.physics.adelaide.edu.au/cssm/workshops/qft_98.html).

“Workshop on Future Directions in Quark Nuclear Physics,” 10–20 March 1998, Special Research Centre for the Subatomic Structure of Matter and the National Institute for Theoretical Physics, University of Adelaide, Australia. Contact: Dr. K. Tsushima, email: [ktsushima@physics.adelaide.edu.au](mailto:ktsushima@physics.adelaide.edu.au), WWW: [http://www.physics.adelaide.edu.au/cssm/workshops/QNP\\_98.html](http://www.physics.adelaide.edu.au/cssm/workshops/QNP_98.html).

“Fifth International Symposium on Weak and Electromagnetic Interactions in Nuclei, WEIN'98,” 14–21 June 1998, Santa Fe, New Mexico. Contact: Conference Secretary WEIN'98, MS H844, Los Alamos National Laboratory, Los Alamos, NM 87545, Telephone: 505-665-1819, Fax: 505-665-6943, email: [WEIN98@lanl.gov](mailto:WEIN98@lanl.gov).

“The Second International Conference on Exotic Nuclei and Atomic Masses,” 23–27 June 1998, Shanty Creek Resort, Bellaire, Michigan. Organizers: Cary Davids ([davids@anl.gov](mailto:davids@anl.gov)), Brad Sherrill ([sherrill@nscl.msu.edu](mailto:sherrill@nscl.msu.edu)), WWW: <http://www.nscl.msu.edu/conferences/ENAM98>.

“Fifteenth International Conference on the Application of Accelerators in Research and Industry,” 4–7 November 1998, University of North Texas, Denton, TX. Contact: Barbie Stippec, P.O. Box 305370, Denton, TX 76203-5370, Telephone: 940-565-3252, Fax: 940-565-2227, e-mail: [stippec@unt.edu](mailto:stippec@unt.edu), WWW: <http://www.phys.unt.edu/accelcon/>.

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