

**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
- Announcement for next Intersections meeting



**Future Deadlines**

- **15 January 1997** — DNP Election Ballot (See Item 1)
- **23 January 1997** — Last day for Abstracts to College Park, MD, APS Office for Spring Meeting (See Item 6)
- **1 April 1997** — Nominations for APS Fellowship (See Item 12)

**WWW Home Page for DNP**

A worldwide web home page for the Division of Nuclear Physics is currently available at "<http://nuclth.physics.wisc.edu/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 Baha Balantekin at "[dnp@nuclth.physics.wisc.edu](mailto:dnp@nuclth.physics.wisc.edu)".

**1. ELECTION OF OFFICERS AND EXECUTIVE COMMITTEE FOR 1997**

The 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 general meeting in Washington, DC, 18–21 April 1997. Bunny C. Clark will become Chair, Lee L. Riedinger will become Past-Chair, and Stuart J. Freedman will become Chair-Elect. Tom Bowles, Cathleen Jones, and Berndt Mueller 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 1997.

This year's Nominating Committee consists of S. J. Seestrom (Chair), R. D. McKeown, J. P. Schiffer, K. T. Lesko, and T. Cohen. The candidates selected by the Nominating Committee are as follows:

**Vice-Chair (one position)**

Walter F. Henning  
June L. Matthews

**Secretary-Treasurer:**

Benjamin F. Gibson

**Executive Committee (three positions)**

Jolie A. Cizewski  
Bradley W. Filippone  
Claus-Konrad Gelbke  
John W. Harris  
Robert V. F. Janssens  
Mikkel B. Johnson

Candidate biographies are in Item 21.

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 1997** 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. 1996 DNP MEMBERSHIP DROPS**

We have learned from the APS Membership Department that the number of DNP members has dramatically decreased. As of 21 October 1996 (which does not include new members who joined at the Fall Meeting in Cambridge) the numbers were:

New Members	116
Reinstated	8
Renewed	2091
Not renewed	383

The Division is very concerned about the 15% drop in membership from 1995, because your support as a member of the DNP is crucial to the functioning of the Division. This Newsletter is being sent to all 1995 DNP members, to encourage them to renew before 31 December, to be counted and to ensure continuity of service.

Some 344 of you in the 383 category should have received a third 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 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 302-209-3271 or check under membership on the APS home page, "<http://aps.org/>".

### 3. ONE HUNDRED YEARS OF NUCLEAR RESEARCH, J. S. O'Connell

This year marks the centenary of nuclear research. Becquerel's 1896 discovery of radioactivity and its subsequent explanation by the Curies and Rutherford marked the start of the field. Research in the first third of the century was carried out with radioactive sources and desk-top detectors for alpha, beta, and gamma rays. The discovery of the neutron in 1932 defined the constituents of the nucleus and stimulated the quantum model of the atom. Invention of low-energy particle accelerators and detectors extended the range of nuclear reactions studied. The strong and weak nuclear forces emerged as fundamental interactions, input into the Schrödinger equation description of nuclear structure and reactions. The discovery of fission in 1939 forever changed the world.

After World War II the U.S. invested heavily in basic and applied nuclear research. Creation of the National Science Foundation and the national laboratory system under the Atomic Energy Commission fostered widespread application of technologies developed during the war. Theory caught up with experiment with the development of the shell model for nuclear structure and the optical model for reactions. High-speed computers permitted model Hamiltonians to be tested against the measured properties of thousands of nuclear energy levels and extensive reaction systematics. The modern period of more recent years has been one of consolidation as the field matured. Higher-intensity beams nurtured nuclear astrophysics. Higher-energy accelerators extended the systematics of structure and dynamics and to explore connections with elementary-particle physics; the investigation of such concepts as strangeness and parity nonconservation flourished.

Twenty Nobel Prizes have been awarded for nuclear research, more than for any other physical science topic. The field has spun off: particle physics, nuclear astrophysics, nuclear power reactors, nuclear medicine, and nuclear weapons. Understanding the nucleus and applying that knowledge to technology has been one of the most significant scientific research accomplishments of the 20th century.

Hard copies of a talk given at the August AAPT meeting on this subject can be requested by e-mail from [JSOConnell@aol.com](mailto:JSOConnell@aol.com). A review of nuclear research and representative papers published in *Physical Review* can be found in Herman Feshbach's article in *The Physical Review; The First Hundred Years* published by AIP Press, 1995, edited by H. Henry Stroke.

### 4. DOVER MEMORIAL — CORRECTION

As announced in Newsletter 107, a "speaker's fund" has been established in Carl's memory at BNL. Should you wish to contribute to this fund, donations can be sent to the address below. Checks should be made out to Associated Universities Inc. with a notation that the purpose is the Carl Dover fund.

Associated Universities Inc.  
Brookhaven National Laboratory  
Upton, NY 11973

### 5. REPORT ON THE DNP FALL MEETING IN CAMBRIDGE, MA, 2-5 OCTOBER 1996

The annual Fall Meeting of the Division of Nuclear Physics, including two workshops, was held 2-5 October 1996 on the campus of the Massachusetts Institute of Technology and hosted by the Laboratory for Nuclear Science. The Boston/Cambridge area offered something for everyone — history, cultural events, sports, night life, and fine ethnic restaurants. Although the early October date for the meeting was just a bit early for the height of the fall foliage season this year, the warm and dry days made for a very pleasant meeting. On behalf of the DNP membership, the DNP Executive Committee is pleased to acknowledge the careful planning, hard work, and congenial hospitality of our hosts. Special thanks go to Bob Redwine, Chair of the Local Organizing Committee, and Jean Flanagan for their excellent organization and local arrangements, and special appreciation goes to Heidi Demers for the long hours worked in preparing for the large number of participants. Members of the Local organizing Committee were W. Bertozzi, E. Booth, H. Demers, T. W. Donnelly, J. Flanagan, J. Heisenberg, S. Kowalski, J. Matthews, R. Milner, R. Miskimen, J. Negele, C. Ogilvie, R. Redwine (Chair), and S. Steadman.

Registered participants at the Fall meeting totaled 604, including 181 student, retired, or unemployed participants. A number of well attended events highlighted the scientific program. The Thursday morning plenary session was held in Kresge Auditorium to accommodate the large audience. A Thursday evening tour of the Bates Linear Accelerator was oversubscribed. A talk on "Basic Science Policy and Public Support" was delivered by E. J. Moniz of the White House Office of Science and Technology Policy on Friday afternoon, prior to the Town Meeting. Both were well attended. The dinner/cruise on Friday evening drew a capacity crowd; it sailed to a close with a floor full of physicists and guests dancing the Macarena. Other meetings held in conjunction with the Fall Meeting included the successful workshops on Wednesday and eight User Group gatherings: 88-inch Cyclotron, ATLAS, Jefferson (CEBAF) Lab, NSCL, AGS, Bates, Gammaphase, and HRIBF.

The meeting program consisted of 6 sessions of invited papers, one of which was the plenary session, 5 mini-symposia led by an invited talk to summarize the subject followed by contributed papers (45 in all) focused on that topic, 20 sessions of approximately 230 contributed papers, and 2 poster sessions involving 24 papers. The plenary session was entitled "Physics of the Long Range Plan" and was chaired by L. Riedinger. The session featured talks by Witold Nazarewicz, "The Challenge of Nuclear Structure," by Nathan Isgur, "The Quark Structure of Matter," by William Zajc, "Investigating the Phases of Nuclear Matter," and by Eric Adelberger, "Fundamental Symmetries and Nuclear Astrophysics: Recent Progress and New Challenges." The Local Committee organized one invited session on "New Results in Medium Energy Physics." Two other invited sessions were on topics selected by the Program Committee at the Spring Meeting of the APS/AAPT in Indianapolis: "Effective Field Theory and Nuclear Physics," which was arranged by Roxanne Springer, Bunny Clark, and Dirk Walecka and "Nuclei and other Mesoscopic Systems," which was arranged by Umesh Garg. The remaining two invited sessions, "New Experimental Results: Double Beta decay and Heavy Ions" and "The Weak and Strong Interactions in Low and Medium Energy Physics," were selected by the DNP Program Committee from invited speaker nominations submitted by the membership at large. All of the sessions were well attended, as were the mini symposia and contributed paper sessions. The poster sessions were an innovation of the Local Organizing Committee, and the posters received much attention during the lunch hours on Thursday and Friday.

The Town Meeting took place on Friday afternoon. Lee Riedinger announced the **30th anniversary** of the formation of the Division of Nuclear Physics. A list of the DNP Chairs since the inception can be found in the front of the APS membership directory. The success of the campaign to fund the Bethe Prize was announced: 104% of the \$150,000 goal to fund a prize of \$7,500 to be awarded annually by the Divisions of Nuclear Physics and Astrophysics beginning in the spring of 1998. We are indebted to Ernest Henley and Wick Haxton for their efforts in chairing the fund-raising committee. Lee Riedinger noted the coming election (see Item 1 of this Newsletter). Bunny Clark outlined planning for the APS/AAPT Spring Meeting in Washington, DC (see Item 6), as well as the 1997 DNP Fall Meeting in Whistler, BC (see Item 7). Bunny Clark also listed the DNP contributions to *Physics News in 1996* (see Item 16). Virginia Brown announced the planning for the 1999 APS Centennial, a year-long celebration beginning in 1998 and culminating with one general spring meeting in Atlanta in March of 1999 (see Item 9). David Hendrie (DOE) and Jack Lightbody (NSF) presented upbeat outlooks for the budget for FY97; both agencies have budgets already passed and signed. Lee Riedinger reported that NSAC had reviewed and agreed upon an operating budget for RHIC. John Schiffer outlined the charge to the Committee on Nuclear Physics to write a report for the new Physics Survey (a National Academy of Sciences sponsored activity); he is chairing the committee.

Two workshops were held on Wednesday, prior to but in conjunction with the DNP Fall Meeting. 166 participants registered. The workshop on "The Quark-Gluon Structure of the Nucleon" addressed issues of nucleon physics in terms of quark and gluon degrees of freedom: the spin structure of the nucleon, its strangeness content, the role of gluons, the neutron electric form factor, and the quark sea, and lattice QCD modeling. Such questions are important to the program beginning at Jefferson Lab and Bates as well as facilities in Europe. The workshop on "Collective Effects and the Quark-Gluon Plasma in Heavy Ion Collisions" addressed two issues: "Disoriented Chiral Condensates" and "Signatures of the Quark Gluon Plasma." In the first area, the chiral phase transition was the focus; in the second area, signatures such as strangeness and dilepton production as well as the evidence for freezeout were explored.

## 6. THE APS/AAPT SPRING MEETING IN WASHINGTON, DC, 18–21 APRIL 1997

The 1997 APS/AAPT Spring Meeting, also a joint meeting with the Canadian Association of Physicists and the Sociedad Mexicana de Fisica, will be held 18–21 April (Friday–Monday) in Washington, DC, at the Ramada Renaissance and the Convention Center. The Division of Nuclear Physics will organize six DNP sessions and six joint sessions of invited papers for the Spring Meeting. Seven of the speakers for two of the DNP sessions will be selected by ballot of the Program Committee from nominations by the membership that were submitted to B. C. Clark by the 11 October deadline. The eighth speaker in the voted sessions will be the Bonner Prize winner's talk.

Speakers for two topical sessions were arranged by the Program Committee on topics selected at the Cambridge committee meeting. One session on *New Insights into the Structure of Nucleons and Nuclei from Compton Scattering* is being organized by D. Skopik, S. Capstick, and W. van Oers. Topics include "Compton Scattering from Nuclei," "Simultaneous Measurements of Compton Scattering and  $\pi$ -Production with Polarized Photons and the  $N \rightarrow \Delta$  Transition," "Virtual Compton Scattering," and "Virtual Compton Scattering on the Proton." A second session on *Initial Results from TJNAF* is being organized by D. Beck. Topics include "Measurements of Inclusive Electron Scattering as

$x > 1$ ," "Proton Propagation in Nuclei as Measured in the  $(e, e'p)$  Reaction," "Deuteron Photodisintegration," and "Kaon Electroproduction." Two CAM97 sessions were also organized by the Program Committee, to emphasize the joint nature (Canadian-American-Mexican) of the Spring Meeting. One session on *New Results in Nuclear Structure from Superdeformation and Weak Interaction Studies* is being organized by R. Roy, J. Millener, M. Smith, M. Strayer, and B. Tsang. Topics include "Double Beta Decay: The Nucleus as a Lab for Probing New Physics," "Superallowed Beta Decay: Nuclear Physics tests of CVC and the Standard Model," "Superdeformation: A Tool to Study Nuclear Structure and Nuclear Reactions," and "De-excitation of Superdeformed Bands in Pb Isotopes." A second session on *Multifragmentation in Classical and Quantal Systems* is being organized by M-E. Brandan, R. Roy, and B. Tsang. Topics include "Visualizing Heavy-Ion Reaction Dynamics through Macroscopic Liquid-Drop Collisions," "Projectile Fragmentation and Dynamical IMF Emission in Light Heavy-Ion Reactions," "Multifragmentation in Central Nucleus-Nucleus Collisions," and "A Unified Description for the Nuclear Equation of State and Fragmentation in Heavy-Ion Collisions."

In addition to the six DNP invited speaker sessions, the Program Committee is participating in the cooperative organization of six joint sessions with other APS units participating in the Spring Meeting. A joint session with the Division of Astrophysics on *Production and Observations of the Light Elements* is being co-organized by M. Smith. A joint session with the Division of Atomic, Molecular, and Optical Physics on *Fundamental Physics with Storage Rings and Traps* is being co-organized by M. Strayer. A joint session with the Few Body System Topical Group on *Electromagnetic Interactions and Effective Field Theories* is being co-organized by D. Beck and B. Gibson. A joint session with the Division of Physics of Beams on *New Developments in Accelerators for Nuclear Physics* is being co-organized by D. Beck. A joint session with the Division of Particles and Fields on *Low Energy QCD* is being co-organized by R. Springer. A joint session with the Committee on Minorities and the Committee on the Status of Women in Physics on the topic of *The Impact on Nuclear Physics and the Public of Jefferson Lab Programs on Education and Outreach* is being co-organized by B. Clark.

The Division of Nuclear Physics will organize up to six mini-symposia at the Spring Meeting. Suggested topics have been assigned sorting category numbers:

- L1 "Unifying Shell Model Theories" (M-E. Brandan, J. Millener, M. Smith, and M. Strayer)
- L2 "Probing Dense Matter" (B. Tsang and R. Roy)
- L3 " $N = Z$  Nuclei" (M. Smith, M. Strayer, and L. Riedinger)
- L4 "New Techniques and Insights from Two-Particle Correlations" (B. Jacak, T. Hemmick, and W. Zajc)

The names in parentheses are the designated co-organizers. Contributed papers for these mini-symposia are solicited — please indicate the sorting category in the appropriate place in your electronic abstract submission. Abstracts not selected for presentation in a mini-symposium will be assigned to a regular contributed paper session. Please see the December issue of APS Meeting News for details of the electronic abstract submission procedure. The deadline for abstract submission is 17 January 1997. Instructions for electronic abstract submission can be obtained by sending an email message to "abs-request@aps.org" with the text of your message being the meeting ID "APR97."

## 7. DNP FALL MEETING AT WHISTLER, BC,

## 5-8 OCTOBER 1997

The Annual Fall Meeting of the Division of Nuclear Physics of the American Physical Society, cosponsored by the Canadian Association of Physicists, including three associated workshops, will be held October 5-8, 1997 at the Chateau Whistler Resort, in the town of Whistler, BC. Whistler is located about 2.5 hours by car north of the Vancouver International Airport. The country around Whistler is a spectacular mix of fjords, mountains, alpine lakes, glaciers and the Pacific Ocean. Whistler is most famous as a world class ski resort. It is a paradise for hiking, mountain biking, rock climbing, camping, fishing, canoeing, horseback riding, golfing, tennis, photography and sightseeing (including boat and helicopter tours). Rental equipment is available locally. Whistler town's elevation is 658 m. The weather in October will be variable, high 17C (53F), low 2.2C (35F) — a perfect time to see spectacular fall colors.

Conference accommodation will be at the Chateau Whistler Resort. A reduced room rate (single or double occupancy) is available for delegates. Limited numbers of shared hotel staff accommodations will be available to graduate students at a further reduced rate.

A tour of TRIUMF following the DNP Fall Meeting will be arranged for Thursday, October 9, 1997.

Three workshops will be held on October 5, 1997, prior to, but in conjunction with, the DNP meeting. One workshop will be on "Discrete Symmetries," organized by Wick C. Haxton and Ernest M. Henley, the second workshop will be on "Electromagnetic Dynamics of Mesons and Nucleons," organized by Jack Bergstrom, Donald F. Geesaman, and Richard G. Milner, while the third workshop will be on "Radioactive Beams and Nuclear Astrophysics," organized by John M. D'Auria and James D. King. The workshops will run in parallel. A US \$30 registration fee will cover all three workshops. Registration will take place on October 5, 1997.

The Local Organizing Committee consists of John M. D'Auria (SFU), David F. Measday (UBC), 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 (UBC/TRIUMF).

For meeting information and registration please contact Ms. Waltraud Dilling, Conference Secretary, DNP97, TRIUMF 4004 Wesbrook Mall, Vancouver BC, V6T 2A3 Canada, email [dnp97@triumf.ca](mailto:dnp97@triumf.ca), webpage <http://www.triumf.ca/>.

For hotel reservation please contact: Chateau Whistler Resort, Reservations Department, 4599 Chateau Boulevard, Whistler BC, V0N 1B4 Canada. Phone 604-938-2010, Fax 604-938-2055. email [cwrres@cwr.mhs.compuserve.com](mailto:cwrres@cwr.mhs.compuserve.com).

## 8. FUTURE DNP FALL MEETINGS

1997	October 5-8	Whistler, BC
1998	October 28-31	Santa Fe, NM
1999	October	Asilomar, CA

The dates include the Wednesday "workshops," which are 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. 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. 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. As described elsewhere in this newsletter by J. O'Connell, nuclear physics is quietly celebrating 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 would include an historical, societal, developmental and/or a technological context. A booklet will be prepared called the Centenary Speaker's Booklet, listing the speakers, topics, geographical location, level, etc., for each speaker. The booklet will be 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" would present a history of physics with an emphasis on the 20th century. The context for physics should emphasize its contributions to basic and applied knowledge as well as its role in culture and technology. In addition, APS subunits are encouraged to develop their own special event, display, exhibit, etc.

A DNP Centenary Sub-Committee has been formed to provide input to the APS on the role of nuclear physics and nuclear physicists in these events. Any suggestions you have can be made to members of this Committee, listed in this newsletter. The DNP would like your input and suggestions for major speakers, speakers for the Centenary Speakers Bureau Booklet, topics for symposia, ideas for the wall chart, possible nuclear physics exhibits, and ideas for presenting nuclear physics contributions that have benefited society.

## 9. DNP COMMITTEES

### Dnp Home Page Committee

Tom Bowles (Executive Committee), Co-Chair  
Cathleen Jones (Executive Committee), Co-Chair  
Stuart Freedman (Executive Committee officer)  
Baha Balantekin (University of Wisconsin)  
Jay Davis (LLNL)  
Naomi Makins (University of Illinois)  
Bob Wiringa (ANL)

### Centennial Committee

Dirk Walecka (College of William & Mary), Chair  
Virginia Brown (NSF), APS Liaison  
Richard Boyd (Ohio State University)  
Jay Davis (LLNL)

## 10. NRC/NAC PHYSICS SURVEY, John P. Schiffer

The National Research Council / National Academy of Sciences has a Physics Survey in progress — similar to the activities that lead to the ‘Brinkman Report’ of a decade ago and the ‘Bromley Report’ before that. This activity is carried out through subcommittees in various subfields of the field, and is coordinated by the NRC Board on Physics and Astronomy, currently chaired by D. Schramm. A Committee on Nuclear Physics has been formed and it held its first meeting in Washington on October 10 and 11.

The committee consists of: S. Austin, G. Baym, W. Donnelly, B. Filippone, S. Freedman, W. Haxton, W. Henning, N. Isgur, B. Jacak, W. Naxarewicz, V. Pandharipande, P. Paul, J. Schiffer (Chair), and S. Vigdor.

On the first day of its meeting the committee heard from officials at the NSF and DOE as well as OSTP and Congress. The perspective of the Division of Nuclear Physics was presented by its Chair, L. Riedinger.

The question of the relationship of this report to the NSAC Long Range Plan was discussed extensively — and the consensus emerged that this report should take a somewhat more distant, broader perspective, and try to minimize areas in which it would overlap with the LRP. This is somewhat in contrast with many other subfields, where these reports do tend to play the role of Long Range Plans.

A first draft outline of a possible report was formulated at the meeting and will be refined in the coming months. The objective is to substantially complete the report in the first half of 1997. When a draft is ready it is expected that a group of individuals from within nuclear physics will be asked to critically review it, and the report then will be first reviewed by the Board on Physics and Astronomy and then subjected to the reviewing procedures of the NRC/NAS.

## 11. NSAC REPORT, L. Riedinger

The Nuclear Science Advisory Committee met on August 9, 1996, at Brookhaven National Laboratory with chair Hamish Robertson presiding. The purpose of the meeting was to consider the issue of eventual operating costs of the Relativistic Heavy Ion Collider now under construction at BNL and due for completion in 1999. An NSAC subcommittee chaired by Richard Orr and Robert Redwine conducted a review of the issue at BNL on July 17–19. At the August meeting, the subcommittee presented in detail its findings and recommendations. After much discussion, NSAC voted to accept the subcommittee report and recommend that RHIC operate for approximately 37 weeks of running time per year with an operating budget of \$99.8M per year (in FY99 dollars) at a minimum. There was also discussion at the meeting about maintaining the fixed target program at the AGS (perhaps by support from DOE High Energy Physics), supporting the RHIC spin program involving a polarized proton beam as a part of the normal operation, and preserving a balanced field of nuclear physics even if some of the dire budget projections come to reality.

## 12. 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 1997 DNP Fellowship Committee is comprised of V. R. Brown (Chair), J. H. Hamilton, B. Mueller, A. B. Balantekin, and C. Glashauser. The Fellowship Committee reviews the nominations for APS Fellowship referred to the DNP and recommends a slate of candidates, which is forwarded to the DNP Executive 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.

## 13. 1997 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.

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 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.

The Bonner Prize Committee recommendation for the 1997 award has been forwarded to the APS Council for approval. Watch for the announcement in *APS News*.

#### 14. APS BETHE PRIZE, W. C. Haxton and E. M. Henley

Due to the generosity of more than 400 individuals, universities, national labs, and industries, approximately \$156K was raised, 104% of the revised goal. Thank you once again to those who contributed to the success of this campaign.

The prize was approved by the APS Council in May and announced at Hans Bethe's 90th birthday celebration at Cornell. Judy Franz, APS Executive Officer, represented the APS. The first of the annual \$7,500 prizes will be awarded at the spring General Meeting of the APS in 1998.

A few photographs from the Cornell celebration can be found on the DAP home page (<http://int.phys.washington.edu/dap>) or the DNP home page.

The Bethe Prize Committee, the Division of Astrophysics and the Division of Nuclear thank you for making this prize possible.

#### 15. 1998 DISSERTATION AWARD IN NUCLEAR PHYSICS

The biennial 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, and Greg Schmid.

**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 the deadline.

Nominations for the 1998 award will be due by 1 July 1997.

#### 16. PHYSICS NEWS IN 1996, B. C. Clark

*Physics News in 1995* was sent to 900+ reporters, published in the May 1996 *APS Meeting News*, appeared in translated form in *Parity* (the Japanese version of *Physics Today*), and was posted electronically on the APS News Home Page (<http://aps.org/apsnews/may96.html>). The Division of Nuclear Physics was invited again this year by the American Institute of Physics to

provide a chapter of the book. This chapter traditionally consists of three articles, roughly 500 words in length, on current research topics in the field that have attracted considerable interest in the scientific community.

The 1996 DNP Physics News Committee has selected three topics, from those nominated, to appear in the nuclear physics chapter of the coming issue of *Physics News in 1996*, which will be published by the AIP in the not-too-distant future. The articles are: "CEBAF (TJNAF) Comes on Line" prepared by J. D. Walecka, "Evidence for Neutrino Oscillations, LSND Collaboration" prepared by Gerald Garvey, and "Simulating the Cosmic Cauldrons" prepared by Walter Henning. As was the case last year, this year's articles will appear on the APS News Home Page and in a future issue of *APS Meeting News*.

The members of the 1996 DNP Physics News Committee were B. C. Clark (Chair), S. J. Freedman, B. F. Gibson, B. Mueller, L. L. Riedinger, and J. D. Walecka.

#### 17. PHYSICAL REVIEW C ONLINE

Dear FY 1996 APS Member PRC Subscriber:

We are pleased to announce that PHYSICAL REVIEW C (PRC) is available online via the World Wide Web. As a FY1996 subscriber to the hardcopy version of PRC you have the opportunity to access PRC online at no additional cost from 1 July 1996 to 30 June 1997. Please complete the Subscription Agreement (<http://publish.aps.org/LEGAL/agreement.html>) and mail or fax it to the Associate Publisher at the address given below if you wish to take advantage of this limited time offer.

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A backfile of PRC articles dating to January 1996, will be available. We look forward to your comments and suggestions on how to make PRC online a better journal.

PRC online is accessible through the Web using a graphical browser (e.g., Netscape) in two formats: the full article as Portable Document Format (PDF) file and the bibliographic record as Hypertext Markup Language (HTML). Adobe Acrobat Reader is required for viewing and printing the PDF files of the articles. This viewer can be downloaded free of charge from the Adobe Web site (<http://www.adobe.com/acrobat/>).

PRC online is also accessible using a text browser (e.g., Lynx). Such browsers allow browsing of the tables of contents and bibliographic information.

Please let the Associate Publisher know if you have additional questions, suggestions, or you need further assistance.

Cordially,  
Sam Austin, Editor  
Physical Review C

ASSOCIATE PUBLISHER (The American Physical Society, One Physics Ellipse, College Park, MD 20740-3844; Fax: 1-301-209-0844; E-mail: ASSOCPUB@APS.ORG)

## 18. THE NSF "RESEARCH EXPERIENCES FOR UNDERGRADUATES PROGRAM"

The National Science Foundation makes possible a number of opportunities for undergraduates to join research projects each summer. This allows students to experience first-hand how basic research is done, and to contribute consequentially. The principal support by NSF of such activities is through the Research Experiences for Undergraduates Program. REU "Sites" are established in all fields of science, mathematics, and engineering. Each Site usually operates for about ten weeks in the summer, and consists of a group of ten or so undergraduates, who work in the research programs of the host institution. Students are in general accepted from throughout the country — most come from schools other than the host institution. Each student is assigned to a specific research project, where he/she works closely with the faculty, postdocs, and graduate students. In addition, seminars, lunch meetings, and social functions are organized to facilitate interaction between the undergraduates. Students are granted stipends, and in some cases assistance with housing and travel. Women and members of under-represented minorities, and those with disabilities or special needs, are particularly urged to apply. The complete list of these Sites can be obtained at <http://www.nsf.gov/ftp/MPS/letters/reulist.txt>.

The NSF Divisions of Physics, Materials Research, and Astronomical Sciences support a total of over 100 such Sites each summer. Most of these Sites cover a broad range of physics-related subjects, and each Site usually includes research topics typical of several APS Divisions. The following Sites do have major components in nuclear physics:

Hope College  
Indiana University/IUCF  
Michigan State University/NSCL  
University of Missouri/MURR

For additional information about the program one may contact:

Rolf M. Sinclair  
Program Director for Special Programs  
Division of Physics  
National Science Foundation  
4201 Wilson Boulevard  
Arlington VA 22230  
rsinclair@nsf.gov

## 19. BUDGET UPDATE FROM THE NUCLEAR SCIENCE RESOURCES COMMITTEE, L. L. Riedinger, Chair

Funding for all federal government agencies was approved by the October 1 beginning of the new fiscal year. This is a real departure from last year when some agencies did not get an official appropriation

until spring. But, this is an election year, and the members of Congress were anxious to adjourn and concentrate on campaigning.

The Clinton Administration requested a National Science Foundation budget of \$3325M for FY97, and the Congress granted \$3270M, compared to \$3220M in FY96. The crucial Research and Related Activities piece of that is \$2472M requested and \$2432M approved, compared to \$2364M in the current year. The request for Nuclear Physics in the Department of Energy was \$318.4M compared to the current year budget of \$304.5M (which is down greatly from the FY95 level of \$331.5M). The Congress approved \$315.9M for FY97. So, in a year when many budgets had sharp cuts, basic science was maintained with reasonable levels of support.

There has been considerable uncertainty concerning the budget requests for basic science in FY98. Both the Administration and the Congress have drafted seven-year scenarios for balancing the federal budget by 2002. In the Administration's projections the budget for DOE General Science (High Energy and Nuclear Physics) is programmed to drop by almost 25% by 2000 before returning to the current level in 2002. Such a scenario would clearly have a severe impact on our field and on various other areas in DOE Energy Research. These projections have led to a wave of activism by various societies, including the DNP. Thousands of letters have apparently been received by the Administration about the DOE basic science budgets in FY98 and beyond. While nothing is publicly known about the details of the actual DOE request for FY98, there is hope that the pressure brought by the letters will have the desired impact and lead to at least constant requested levels of support for fields of basic research like ours. Of course, nothing will be decided about the requests until after the election.

## 20. 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 12-41 are \$55/\$60 retail and \$39/\$42 for DNP members. Volumes 42 and 43 are \$59/\$64 retail and \$42/\$45 for DNP members. Volume 44 is \$62/\$67 retail and \$44/\$47 for DNP members.

Other Annual Reviews are also available. 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.*

## 21. CANDIDATE BIOGRAPHIES

### NOMINATIONS FOR VICE-CHAIR

WALTER F. HENNING — Director, Physics Division, Argonne National Laboratory, 1992-present; Professor, University of Mainz and Section Leader, GSI, 1986-91; Professor, University of Chicago, 1983-86 and 1996-present; Senior Scientist, Argonne National Laboratory, 1980-86; Staff Physicist, Argonne National Laboratory,

1976–80; Associate Professor, Technical University of Munich, 1975–76; Visiting Scientist, Argonne National Laboratory, 1973–75; Research Associate, Technical University of Munich, 1968–73; Ph.D., Physics, Technical University of Munich, 1968; Diploma Physics, Technical University of Darmstadt, 1966. Visiting Appointments: University of Jerusalem, Spring 1982; Technical University of Munich, 1982. Committees etc.: Committee on Nuclear Physics of the National Research Council, 1996; NSF Special Emphasis Panel on Nuclear Physics, 1996; Member NSAC, 1992–95; Chair NSAC Subcommittee on Nuclear Science in DOE, 1994; Chair NSF Special Emphasis Panel on Low Energy Nuclear Physics, 1992–93; Member of the Executive Committee of the DNP/APS, 1992–95; Founding Committee for National Laboratory Rossendorf (Germany), 1991–92; Nuclear Science Advisory Committee to the German Federal Ministry of Science and Technology (Gutachter Ausschuss BMFT), 1991–93; Bonner Prize Committee 1985–86 (Chair, 1986); Program Committee, American Physical Society, 1976–77. Program Advisory Committees to Facilities: AGS Brookhaven, 1995–present; Indiana University Cyclotron Facility, 1994–present; KVI Groningen, 1993–present; MSU Cyclotron Facility, 1992–96; SIS/ESR GSI Darmstadt, 1989–93; SATURNE Saclay, 1989–92; XTU-Tandem Padova, 1988–91; VICKSI HMI Berlin, 1988–91; BEVELAC LBL Berkeley, 1987–93; UNILAC-GSI Darmstadt, 1987–89; ATLAS - Argonne, 1984–86; SUPERHILAC LBL Berkeley, 1983–86; MP Tandem Brookhaven, 1977–82. Other Professional Activities, Memberships, etc.: Editor, *Zeitschrift f. Physik*, 1987–92; Associate Divisional Editor, *Physical Review Letters*, 1991–94; Editorial Board, *Physical Review C*, 1994–present; Member, German Physical Society; Fellow, American Physical Society. Research interests: nuclear structure; low energy heavy-ion reactions; meson and photon production in relativistic heavy-ion reactions; nuclear reactions with radioactive beams and astrophysics; accelerator mass spectrometry; cryogenic low-temperature detectors.

JUNE L. MATTHEWS — Professor of Physics, MIT, 1982–present. B.A., Physics, Carleton College, 1960; S.M., Physics, MIT, 1962; Ph.D., Physics, MIT, 1967. Postdoctoral Research Fellow, Glasgow University, 1968–71; Postdoctoral Research Associate, Rutgers University, 1971–72; Assistant Professor of Physics, MIT, 1973–75; Associate Professor of Physics, MIT, 1975–82; Benedict Distinguished Visiting Professor of Physics, Carleton College, Fall 1983; Visiting Professor of Physics, Yale University, Spring 1984; Visiting Professor of Physics, Oberlin College, Fall 1988; Associated Western Universities Faculty Fellow and Visiting Scientist, Los Alamos National Laboratory, 1989. Honors: Phi Beta Kappa, 1960; Sigma Xi, 1960; Woodrow Wilson Fellow, 1960; National Science Foundation Graduate Fellow, 1960–61; National Science Foundation Postdoctoral Fellow, 1969–70; Fellow, American Physical Society; Fellow, American Association for the Advancement of Science. Advisory Panel for Physics, National Science Foundation, 1975–78; Program Committee, APS-Division of Nuclear Physics, 1980–82; Panel on Public Affairs, APS, 1981–84; LAMPF Program Advisory Committee, 1982–85; Chairman, Gordon Research Conference on Photoneuclear Reactions, 1984; MIT-Bates Linear Accelerator Center Program Advisory Committee, 1985–88; LAMPF Users Group Board of Directors, 1986–88 (Chair, 1987); Board on Assessment of Programs, NIST-Center for Radiation Research, 1986–88; Councillor-at-Large, APS, 1986–88; Committee on the International Freedom of Scientists, APS, 1986–88; Executive Committee, APS, 1987–88; Editorial Board, *Physical Review C*, 1987–89; Guest Editor, *Annual Reviews of Nuclear Science*, 1987; Divisional Associate Editor, *Physical Review Letters*, 1988–92; Resource Letters Editorial Board, *American Journal of Physics*, 1989–92; Associate Editor, *American Journal of Physics*, 1990–92; LAMPF Experimental Facilities Panel, 1990–92; Nominating Committee, APS-Division of Nuclear Physics, 1991; Graduate Education Committee, AAPT, 1993–95; Fellowship Committee, APS-Division of Nuclear Physics, 1994–95;

LAMPF Users Group Board of Directors, 1994–1996 (Chair, 1995); Apker Award Committee, APS, 1995–97; Los Alamos Neutron Program Advisory Committee, 1996–present. Research interests: intermediate energy physics; interactions of pions with nucleons and nuclei, electromagnetic interactions with few-body 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; JSPS Research Fellow, Sendai, 1984; Murdoch Fellow, INT Seattle, 1992; Humboldt Research Award for Senior U.S. Scientists, Jülich, 1992–present. NSAC Subcommittee on Computers and Computing, 1984–85; Bates Program Advisory Committee, 1985–89; LAMPF Program Advisory Committee, 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. 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. Program Chairman for the APS April Meeting, 1992; 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; Co-Organizer of *Properties and Interactions of Hyperons*, 1993; Organizing Committee for *Baryons '95*, 1995; 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

JOLIE A. CIZEWSKI — Professor of Physics, Rutgers University, 1992–present; Ph.D., State University of New York at Stony Brook, 1978; Research Assistant, Brookhaven National Laboratory, 1973–78; Postdoctoral Staff Member, Los Alamos National Laboratory, 1978–80; Assistant Professor, Yale University, 1980–85, Associate Professor, 1985–86; Associate Professor, Rutgers University, 1986–92; Associate Chair and Director of Graduate Program in Physics and Astronomy, Rutgers University, 1993–present; Visiting Appointments: U.S. National Laboratories at Brookhaven, Los Alamos, Livermore, Argonne, and Berkeley; Institut Laue Langevin, Grenoble, France; University of Manchester, United Kingdom. Honors: A. P. Sloan Foundation Fellow 1983–88; NSF Faculty Award for Women Scientists and Engineers 1991–present; Fellow, American Physical Society, 1991. DNP Committees: Program (1991–92), Bonner Prize (1992–94), Nominating (1993–95). APS Committees: Council (1993–96), Executive Board (1995–96), Nominating (1995–97), Membership (1994–96, Chair, 1996); Editorial Board, *Physical Review C* (1992–95); NAS/NRC Panel on Nuclear Data Compilations (1986–92, Chair 1989–92); NAS/NRC Committee on Issues in Transborder Flow of Scientific Data (1994–96); ATLAS User's Executive Committee (1988–92, Chair 1988–91); Gammasphere Users Executive Committee (1995–96). Research interests: experimental nuclear structure studies of medium and heavy-mass nuclei, tests of the interacting boson model, superdeformed shapes, nuclei far from stability.

BRADLEY W. FILIPPONE — Professor of Physics, Caltech, 1995–present; B.S. Astronomy, Pennsylvania State University, 1977; S.M. Physics, University of Chicago, 1979; Ph.D. Physics, University of Chicago, 1982; Postdoctoral Physicist, Argonne National Laboratory,



1982–83; Research Fellow, Caltech, 1983–84; Assistant Professor of Physics, Caltech, 1984–90; Associate Professor of Physics, Caltech, 1990–1995; Awards: Sloan Foundation Fellow, 1987–1991; Member, Hall C Steering Committee, CEBAF, 1988–90; Core Panel Member, National Research Council Committee on Theory and Laboratory Astrophysics, 1989–90; DOE Review Committee on Experimental Nuclear Physics Program (P Division) at Los Alamos National Laboratory, 1991; Los Alamos Meson Physics Facility Physics Advisory Committee, 1992–94; CEBAF Physics Advisory Committee, 1993–96; Chairman, CEBAF Physics Advisory Committee, 1996–present; Panel Member, National Research Council Committee on Nuclear Physics, 1996–present. Current research interests: structure of nucleons and nuclei probed with high energy electron scattering, measurements of nucleon spin structure.

CLAUS-KONRAD GELBKE — University Distinguished Professor of Physics, Michigan State University (MSU), 1990–present; Director, National Superconducting Cyclotron Laboratory (NSCL), MSU, 1992–present; Diplom für Physik, University of Heidelberg, 1970; Dr. rer. nat., University of Heidelberg, 1973; Wissenschaftlicher Assistent, Max-Planck-Institut für Kernphysik, Heidelberg, 1973–76; Summer Visitor, Brookhaven National Laboratory, 1974; Summer Visitor, University of Washington, 1975; Physicist, Lawrence Berkeley Laboratory, 1976–77; Associate Professor of Physics, MSU, 1977–1981; Professor of Physics, MSU, 1981–90; Associate Director for Nuclear Science, NSCL, MSU, 1987–90. Honors: Scholarship of “Studienstiftung des Deutschen Volkes,” 1971–72; Alfred P. Sloan Fellow, 1979–83; Fellow, American Physical Society, 1985; Humboldt Research Award for Senior U.S. Scientists, 1993. Committees: Consultant, Outside User Program at 88" Cyclotron of Lawrence Berkeley Laboratory (LBL), 1979–83; LBL SuperHILAC Program Advisory Committee, 1980–83; DNP Program Committee of the APS, 1981–83; Chairman, 88" Cyclotron Program Advisory Committee of LBL, 1983–85; Task Force on Ultra-Relativistic Heavy Ion Physics at Brookhaven National Laboratory, 1983; Executive Committee, Holifield Heavy Ion Research Facility, 1983–84; Program Advisory Committee, Holifield Heavy Ion Research Facility, 1983–85; NSAC Long Range Plan Writing Committee, 1989, Bevalac Nuclear Science Program Advisory Committee of LBL, 1989–1991, NSAC Heavy Ion Facilities Subcommittee, 1990; NSAC, 1990–92; Technical consultant for DOE review of Gammasphere, 1992, Site Review Panel, Nuclear Structure Research Laboratory of the University of Rochester, 1992; DOE Relativistic Heavy Ion Panel, 1994; Chairman, NSAC Subcommittee on RHIC Experimental Equipment, 1995; NSAC Long Range Plan Writing Committee, 1995; Program Advisory Committee, GSI (Germany), 1995–present; Program Advisory Committee, LNS (Catania, Italy), 1996–present; DOE Review Panel, Cyclotron Institute of Texas A&M University, 1995; Operational Plan Review Committee, Holifield Radioactive Ion Beam Facility, 1996; DOE Review Panel, Triangle Universities Nuclear Laboratory, 1996. Research interests: heavy-ion reactions, multifragment disintegrations, intensity interferometry.

JOHN W. HARRIS — Professor of Physics, Yale University, 1996–present; B.S., Physics, Seattle, University of Washington, 1973; M.S. and Ph.D., Physics, Stony Brook–State University of New York, 1978; Research Associate, Lawrence Berkeley Laboratory, 1978–80; Senior Guest Scientist, Gesellschaft für Schwerionenforschung (GSI-Darmstadt), 1980–84; Divisional Fellow, Lawrence Berkeley Laboratory, 1984–89; Senior Scientist, Lawrence Berkeley Laboratory, 1989–96. Visiting research appointments: Universität Heidelberg, 1982; Universität Frankfurt, 1986, 1995; CERN, 1987, 1995. Honors: Alexander von Humboldt Foundation Fellow, 1986–87; Lawrence Berkeley Laboratory Achievement Award, 1993; U.S. Senior Research Award, Alexander von Humboldt Foundation, 1995–96. Division of

Nuclear Physics Long Range Planning Group, 1995; Nuclear Science Advisory Committee (NSAC), 1993–96; Spokesperson for the STAR experiment at RHIC, 1991–present; Associate Editor of *Nuclear Physics* (Intermediate Energy), 1991–present; Program Committee, APS Division of Nuclear Physics, 1996–present; Bonner Prize Committee, APS Division of Nuclear Physics, 1996–present. Present research interests: relativistic heavy ion interactions and high energy nuclear interactions.

ROBERT V. F. JANSSENS — Senior Physicist, Argonne National Laboratory, 1994–present; B.S., Physics, Cath. Univ. Louvain (Belgium), 1973; Ph.D., Physics, Cath. Univ. Louvain (Belgium), 1978; Research Assistant, Cath. Univ. Louvain (Belgium) 1973–78; Research Associate, KVI Groningen (The Netherlands), 1978–80; Professor of Physics, ERC, Brussels (Belgium) 1980–81; Assistant Physicist, Argonne National Laboratory, 1981–84; Staff Physicist, Argonne National Laboratory, 1984–93; Adjunct Professor, North Carolina State University, 1995–present; Fellow, American Physical Society; Program Committee, APS-Division of Nuclear Physics 1987–89; ATLAS Program Advisory Committee, Argonne, 1989–91; 88 Inch Cyclotron Program Advisory Committee, Berkeley, 1990–96; Chairman Gammasphere Users Group 1992–95; Divisional Associate Editor, *Physical Review Letters*, 1994–present; Research interests: nuclear structure: properties of nuclei at large deformations, at high spin and temperature, at the limits of stability; heavy-ion induced reactions; physics with exotic beams.

MIKKEL B. JOHNSON — Fellow, Los Alamos National Laboratory, 1991–present; B.S. Physics, Virginia Polytechnic Institute, 1966; Ph.D. Physics, Carnegie Mellon University, 1970. Visitor, Center for Theoretical Physics, MIT, 1969–70; Research Associate, Cornell University, 1970–72; Staff Member, Los Alamos National Laboratory, 1972–91; Visiting Scientist, Swiss Institute for Nuclear Research, Fall 1978; Visiting Professor of Physics, SUNY, Stony Brook, 1981–82; Visitor, Theory Group, Forschungszentrum, Jülich, 1987–93; Murdock Fellow, INT, Seattle, 1991–92. Honors: Phi Kappa Phi, 1965; Sigma Pi Sigma, 1965; NDEA Graduate Fellowship, 1966–70; Fellow, American Physical Society, 1983; Humboldt Award for Senior U.S. Scientists, 1986; Fellow, LANL, 1991. Consultant, Oak Ridge National Laboratory, 1966; Consultant, The RAND Corporation, 1967–68; Associate Editor, Nuclear Physics, 1975–present; Los Alamos Science and Engineering Advisory Council, 1987–89; Los Alamos Postdoctoral Selection Committee, 1989–92; LAMPF Program Advisory Committee, 1994–95; Los Alamos Neutron Science Center Program Advisory Committee, 1995–present. Current research interests: many-body theory; hadron properties in QCD; hadrons in nuclei; compound nuclei and parity nonconservation.

## 22. FUTURE CONFERENCES

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

**“25th INS Symposium on Nuclear and Particle Physics with High-Intensity Proton Accelerators,”** 3–6 December 1996, INS, Tokyo, Japan. Host: Institute for Nuclear Study, Univ. of Tokyo. Sponsors: KEK and RCNP (Osaka). Contact: T. Fukuda, email: fukuda@inseil.decnet@kek.vax.kek.jp, or Ms. K. Hata, INS, Univ. of Tokyo, 3-2-1 Midori-cho, Tanashi, Tokyo 188; Phone: 81-424-69-9599; Fax: 81-424-62-0775; email: insymp25@ins.u-tokyo.ac.jp; WWW: <http://www.ins.utokyo.ac.jp>.

**“XX Nuclear Physics Symposium at Oaxtepec,”** Oaxtepec (Mexico), January 6–9, 1997. Information to be found at the website

<http://www.nuclecu.unam.mx/oaxtepec/oaxtepec.html>. For further information contact: Roelof Bijker, Instituto de Ciencias Nucleares UNAM, A.P. 70-543, 04510 Mexico DF, Mexico, Fax: 525-616-2233, email: [bijker@nuclecu.unam.mx](mailto:bijker@nuclecu.unam.mx).

**“International Conference on Nuclear Data for Science and Technology,”** 19–24 May 1997, International Center for Theoretical Physics, Trieste, Italy. Chairman: G. Reffo, ENEA Nuclear Data Center, Bologna, Italy. Contact: A. Ventura, ENEA Nuclear Data Center, I-40129 Bologna, Italy, Phone: +39-51-6098305, Fax: +39-51-6098705, email: [ventura@nudace.arcoveggio.enea.it](mailto:ventura@nudace.arcoveggio.enea.it), web page address: <http://nudace.arcoveggio.enea.it>.

**“QULEN97, International Conference on Quark Lepton Nuclear Physics — Nonperturbative QCD Hadron Physics & Electroweak Nuclear Processes,”** 20–23 May 1997, Osaka, Japan. Contact: Ms. A. Futakuchi; Postal Address: RCNP (Research Center for Nuclear Physics), Osaka University, 10-1 Mihogaoka, Ibaraki, Osaka 567, Japan; Phone: +81-6-879-8943; Fax: +81-6-879-8899; email: [qulen97@rcnpvx.rcnp.osaka-u.ac.jp](mailto:qulen97@rcnpvx.rcnp.osaka-u.ac.jp); DECnet: 41460::qulen97; URL/WWW: <http://www.rcnp.osaka-u.ac.jp/~qulen97/>.

**“Sixth Conference on the Intersections of Particle and Nuclear Physics,”** 27 May–2 June 1997, Big Sky, MT. Contact: Conference Secretary: Susan Ramsay, CIPANP, LANL, MS H844, Los Alamos, NM 87545, Phone: 505-665-1819, Fax: 505-665-6943, email: [cipanp@lanl.gov](mailto:cipanp@lanl.gov); web page address: <http://intersections.lanl.gov>.

**“The Sixth Annual Conference on Electronics for Particle Physics,”** 28–29 May 1997, LeCroy Corporation, Chestnut Ridge, NY. Contact: George Blamar, LeCroy Corporation, 700 Chestnut Ridge Road, Chestnut Ridge, NY 10977-6499; Telephone: 914-578-4400; Fax: 914-578-5984.

**“Sixth International Conference on Nucleus-Nucleus Collisions,”** 2–6 June 1997, Park Vista Hotel, Gatlinburg, TN. Co-hosted by the Physics Division, ORNL and the National Superconducting Cyclotron Laboratory, MSU. Contact: Ms. Ann M. McCoy, Conference Secretary, Mail Stop 6368, Oak Ridge National Laboratory, Oak Ridge, TN 37831-6368, email: [nn97@mail.phy.ornl.gov](mailto:nn97@mail.phy.ornl.gov).

**“2nd International Symposium on Symmetries in Subatomic Physics,”** 25–28 June 1997, University of Washington, Seattle, WA. Contact Ernest Henley, University of Washington, Physics, Box 351560, Seattle, WA 98195, email: [henley@phys.washington.edu](mailto:henley@phys.washington.edu), or see <http://www.phys.washington.edu/henley/symmetries>.

**“The Ninth International Conference on Recent Progress in Many-Body Theories,”** 21–25 July 1997, School of Physics, The University of New South Wales, Sydney, Australia. Preferred form for pre-registration and registration is via the conference homepage: <http://www.phys.unsw.edu.au/conf/mbix/mbix.html>, email: [mbix@newt.phys.unsw.edu.au](mailto:mbix@newt.phys.unsw.edu.au), Fax: 61 2 9385 6060. Convenor: David Neilson, Secretary: Jill Walker, MBIX Conference, School of Physics, The University of New South Wales, Sydney 2052, Australia.

**“The International Conference on Hypernuclear and Strange Particle Physics,”** 13–18 October 1997, Brookhaven National Laboratory, Upton, NY. Contact: R. E. Chrien, Bldg. 510A, BNL, Upton, NY 11973, USA, Telephone: 516-344-3903; D. J. Milliner, Bldg. 510A, BNL, Upton, NY 11973, Telephone: 516-344-3853. Fax: 516-344-5568, email: [chrien@bnl.gov](mailto:chrien@bnl.gov) or [millener@bnl.gov](mailto:millener@bnl.gov).

**“XVI RCNP Osaka International Symposium on Innovative Computational Methods in Nuclear Many-Body Problems,”** 10–15 November 1997, Osaka, Japan.

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