



**TO: Members of the Division of Nuclear Physics, APS
FROM: Virginia R. Brown, LLNL - Secretary-Treasurer, DNP**

**ACCOMPANYING THIS
NEWSLETTER:**

- A ballot for the nomination of DNP Officers and Executive Committee.

- **1 April 1993-Nominations for APS Fellowship (See Item 10).**

**1. COMMITTEES OF THE DNP FOR
1992**

Executive Committee

Wick C. Haxton, Univ. of Wash., Chair (1993)

Noemie Benczer-Koller, Rutgers Univ., Vice-Chair (1993)

Gerard M. Crawley, Michigan State Univ., Past-Chair (1993)

Virginia R. Brown, LLNL, Secretary-Treasurer (1993)

Gerald T. Garvey, LANL, Division Councillor (1993)

Steven E. Koonin, Caltech, Division Councillor (1995)

Lawrence S. Cardman, Univ. of Illinois (1994)

Richard F. Casten, BNL (1993)

Stuart J. Freedman, UC Berkeley (1993)

Walter Henning, ANL (1994)

Robert D. McKeown, Caltech (1994)

Leo L. Riedinger, Jr., Univ. of Tennessee (1993)

Program Committee

Noemie Benczer-Koller, Rutgers Univ., Chair

Future Deadlines



- **19 June 1992**-Contributed and Invited Abstracts for the Santa Fe, NM, Fall Meeting (See Item 6).
- **1 July 1992**-User Group Fall Meeting Room Requests for September Bulletin (See Item 7).
- **10 July 1992**-Nomination Ballots for DNP Elections (See Item 2).
- **1 Sept. 1992**-Nominations for 1993 Bonner Prize (See Item 12).

Wick C. Haxton, Univ. of Washington,
Past-Chair
Aron Bernstein, MIT
R. Russell Betts, ANL
Virginia R. Brown, LLNL
Joseph A. Carlson, LANL
Arthur E. Champagne, Univ. of N.
Carolina-Chapel
Jolie A. Cizewski, Rutgers Univ.
Thomas D. Cohen, Univ. of Maryland
Gerard Crawley, Michigan State Univ.
Jerry D. Garrett, ORNL
Donald F. Geesaman, ANL
Joseph N. Ginocchio, LANL
Grant J. Mathews, LLNL
Bernhard A. Mecking, CEBAF
Berndt Müller, Duke Univ.
Dennis M. Skopik, Univ. of
Saskatchewan
Johanna Stachel, SUNY
Steven E. Vigdor, Indiana Univ.
Jochen K. Wambach, Univ. of Ill.
Gordon J. Wozniak, LBL

Nominating Committee

J. A. Nolen, ANL, Chair
B. C. Clark, Ohio State Univ.
G. T. Garvey, LANL
S. E. Koonin, Caltech

1992 Fellowship Committee

J. B. Ball, ORNL, Chair
E. G. Adelberger, Univ. of Wash.
F. E. Bertrand, Jr., ORNL
E. J. Moniz, MIT

1993 Fellowship Committee

G. M. Crawley, MSU, Chair
E. J. Moniz, MIT
V. E. Viola, Indiana Univ.

1993 Bonner Prize Committee

R. J. Perry, Ohio State, Chair,
B. Balantekin, Univ. of Wisconsin, Vice-
Chair
J. A. Cizewski, Rutgers

F. S. Stephens, LBL
P. Twin, Liverpool

1994 Bonner Prize Committee

B. Balantekin, Univ. of Wisconsin, Chair
F. Calaprice, Princeton Univ., Vice-Chair
J. A. Cizewski, Rutgers Univ.
S. Kowalski, MIT
R. E. Pollock, Indiana Univ.

Nuclear Science Resources Committee

L. L. Riedinger, Jr., ORNL, Chair
J. G. Cramer, Jr., Univ. of Wash.
G. M. Crawley, Mich. State Univ.
J. Finck, Central Michigan Univ.
L. S. Schroeder, LBL

Physics News Committee

N. Benczer-Koller, Rutgers Univ., Chair
D. H. Beck, Univ. of Illinois
R. F. Casten, BNL
S. J. Freedman, Univ. of California,
Berkeley
B. D. Serot, Indiana Univ.
G. R. Young, ORNL

*Appointments of members to DNP
committees are for one- or two-year terms.
Division Councillors are elected for four-
year terms.*

2. NOMINATION OF OFFICERS AND EXECUTIVE COMMITTEE FOR 1993

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, D.C., 12-16 April 1993.
Noemie Benczer-Koller will become Chair
and Lawrence S. Cardman, Walter Henning,
and Robert D. McKeown 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 1993. The enclosed
nominating ballot must be signed and may

be returned in the enclosed envelope with your name and address printed or signed legibly in the upper left hand corner of the envelope. It must be received by **Virginia R. Brown** on or before **10 July 1992**, in order to be counted. The DNP bylaws require that a nominee proposed for a given post by not fewer than one-fiftieth of the members (48 for this election) shall be deemed nominated to that post.

If you are a DNP member, please exercise your right to nominate candidates for the upcoming DNP elections. In 1991 there were only 76 nomination forms received by the Secretary-Treasurer. More members vote in the DNP elections, but for 1991 only about 709 election ballots were mailed in by members. **It is important to vote!**

3. 1992 DISSERTATION AWARD

The 1992 DNP Dissertation Award Winner, James Edward Koster, did his thesis work "*A Test of Time Reversal Invariance with Polarized Neutrons and Aligned Holmium-165*" at North Carolina State University; his thesis advisor was Professor Chris Gould of that University. Dr. Koster's home campus was incorrectly cited in the February newsletter. North Carolina State University can be proud of Dr. Koster as the competition was keen.

4. DNP MEMBERSHIP INSUFFICIENT FOR TWO DIVISION COUNCILLORS

The DNP needs 185 new members by December 1992 in order to exceed 6% of the total APS membership, which is required in order to maintain two Division Councillors! This goal assumes a 4% growth in the APS as was the case last year. By comparison the Division of Particles and Fields is over the required amount at 7.71%, and their recent membership drive to increase the safety margin is reported to have been quite successful.

Members are urged to invite their colleagues, post docs, and students to join. Graduate students at Ph.D. granting institutions receive their first year APS and DNP dues free of charge. The special application forms can be obtained through their department heads. If such forms have not been received, please request them from the APS.

If you know someone who wants to join or reinstate membership, and they are not sure how to go about it, tell them to write a letter to the APS/Membership Department, 335 East 45th Street, New York, NY 10017-3483 stating that they want to join the DNP. They should enclose a \$5 check, and to avoid mix-ups they could include their APS membership ID number. If they have not yet paid their 1992 APS bill, then they simply add the DNP as an elected subunit and include \$5 more. Lifetime APS members are not lifetime DNP members.

5. DNP BUSINESS MEETING AT THE 1992 SPRING APS MEETING, WASHINGTON, D.C.

The Business Meeting of the DNP was held at 11:00 a.m., Wednesday, 22 April in the North Salon of the Ramada Renaissance Techworld Hotel. The meeting opened with congratulations to the Bonner Prize recipients, Henry G. Blosser and Robert E. Pollock, to the Dissertation Award Winner, James E. Koster, and to those elected to APS Fellowship in the DNP, viz. Raymond G. Arnold, Frank T. Avignone III, Frederick D. Becchetti, James R. Beene, Jules P.G. Deutsch, Dieter Fick, Bernard Frois, Tsung-Shung H. Lee, Fred Myhrer, Alan M. Nathan, Frank Tabakin and Henry R. Weller.

The outgoing DNP Chair, Gerard M. Crawley, thanked other officers and committee members with whom he had worked during his tenure; he then introduced new members and turned the meeting over to the incoming Chair, Wick C. Haxton. Haxton reported on the

membership drop and the potential loss of the second DNP/APS Councillor position in 1994. See Item 4 of this newsletter for more details. Virginia R. Brown reported on the financial status of the DNP treasury and the DNP prize funds. See Item 13 for Bonner Prize funding deficit.

The incoming DNP Program Chair, Noemie Benczer-Koller, reported on the plans for the 1992 fall meeting at Santa Fe, NM. See Item 6 of this newsletter for more details.

Under the new APS Constitution and Bylaws, the DNP has been requested to revise its bylaws so as to be in compliance with those of the APS. J. B. Ball, the Chair of the DNP Bylaws Committee, reported on the progress of his committee. See Item 11 of this newsletter.

G. J. Dreiss, Associate Editor of Physical Review C, reported on the new three-year pilot program for suspension of publication (page) charges for Physical Review C compuscripts. For more information see Item 18 of this newsletter.

Others items on the agenda included a report on the DOE and NSF budget processes from Leo L. Riedinger, Jr. (Nuclear Science Resource Committee Chair), and Jack Lightbody (NSF). Peter Paul (NSAC Chair) gave a report on the NSAC response to the recent charge from DOE and NSF with 3 budget scenarios.

John Schiffer gave a report on the work of his subcommittee. Peter Barnes, Director of LAMPF, gave a perspective of the impact of the Schiffer Committee Report on hadron facilities. An NSAC report and a summary of the Schiffer Committee Report is presented by G. M. Crawley in Item 17 of this newsletter. A budget update prepared by L. L. Riedinger, Jr., can be found in Item 16.

6. DNP FALL MEETING AT SANTA FE, NM, 14-17 OCTOBER 1992

The Annual Fall Meeting of the Division of Nuclear Physics will be held on 14 - 17 October 1992, in Santa Fe, NM. The host for the meeting and its associated workshops will be Los Alamos National Laboratory. All sessions of the Meeting and the Workshops will be held in Sweeney Convention Center, 201 West Marcy Street, which is within walking distance of the historic Santa Fe Plaza.

Santa Fe is an appropriate meeting place in the year of the quincentennial celebration of the historic voyage of Christopher Columbus. Santa Fe and its surrounding countryside are inhabited by descendants of the indigenous people living on this continent before Columbus' arrival, the Spanish colonialists that followed Columbus, and more recent settlers. This diversity has helped to make Santa Fe, the oldest capital city in the United States, a cultural center of the Southwest. It is a pleasure to wander its narrow streets amid the historic adobe buildings containing galleries, shops, restaurants, and five museums. Santa Fe is nestled in the foothills of the scenic Sangre de Cristo Mountain Range, and has fifteen state and national forests, parks, campgrounds, and monuments within a sixty mile radius, and numerous Indian pueblos in its vicinity. The Santa Fe Institute, a multidisciplinary research institution studying complexity in physical, biological, and social systems, is located in Santa Fe. Los Alamos National Laboratory is forty miles to the northwest, and the University of New Mexico and Sandia National Laboratory are in Albuquerque, sixty miles to the southwest.

Divisional Meeting 15-17 October 1992

The main divisional meeting, held Thursday through Saturday, will consist of a plenary session, five sessions of invited papers, and approximately 18 sessions of contributed papers. Overhead projectors

will be provided for all sessions, with slide projectors also available for invited talks on request. There will also be a DNP "town meeting" and meetings of users groups of various laboratories.

Meeting Program

Six invited sessions are planned for this meeting. The first one is the opening plenary session. Two of the invited sessions will be on topics selected by the program committee at the Washington meeting. One on "*New Results in Electromagnetic Physics*" is being arranged by A. Bernstein (MIT). Another session on "*Exotic Nuclear Structure and Reactions; Radioactive Beams*" is being arranged by R. R. Betts (Argonne). A third session on "*Modification of Physical Processes in the Nuclear Medium*", chaired by M. Strikman (Penn State) has been organized by the local committee. The speakers and titles of their talks for this session are "*Color Transparency in $(e,e'p)$ at High Momentum Transfer*", R. McKeown (Caltech), "*Parity Violation in Nuclei from Neutron Resonance Scattering*", M. Johnson (LANL), "*Renormalization of the Axial Charge in Nuclei*", E. K. Warburton (BNL), and "*Effective Lagrangians in a Dense Medium*", G. E. Brown (SUNY). The remaining two invited sessions will be selected by the DNP Program Committee from nominations made by the DNP membership at large.

Joint Session with the Division of History of Physics

In view of the 50th anniversary of the foundation of Los Alamos, Prof. H. Richards of the Univ. of Wisconsin and Prof. G. Holton of Harvard Univ., the new Chair of the Division of the History of Science, suggested that the October Santa Fe meeting would provide an appropriate time and location for a second historical session on the Birth of the Nuclear Age 50 Years ago. The first session, labelled "*Prelude to Los Alamos, Part I*" dealing with slow neutron physics and leading to reactor development, was held at the Washington Meeting in

April. The second session focussing on *Fast Neutron Physics* leading to explosive chain reactions is being planned for the Santa Fe meeting in October. Talks on fast neutron measurements, accelerator and instrumental developments, fast neutron large angle scattering and cross section studies, early measurements of some fusion reaction cross sections, and an overview of theoretical studies are being planned.

Preconference Workshops

Two workshops will be held in parallel on Wednesday, October 14, prior to the main meeting. The topics are "*New Vistas in Physics with High-Energy Pion Beams*", organized by C. B. Dover, B. F. Gibson, J. B. McClelland, and S. J. Seestrom, and "*Neutrons - Their Use for Nuclear Physics and Fundamental Symmetry Tests*", organized by A. Gavron, P.W. Lisowski, J. R. Nix, and J. F. Wilkerson. The programs for these workshops will include a review of current areas of activity for a general nuclear physics audience, including students, and will not be solely for specialists. Registration for one workshop will allow one to attend the other workshop as well.

The workshop on "*New Vistas in Physics with High-Energy Pion Beams*" will provide an overview of the physics opportunities provided by high-quality, intense pion beams with energies up to about 1 GeV. The preliminary program is: Session I (Chair, A. Gal) "*Overview*", C. Dover (BNL), " (π,K) Physics", J. Millener (BNL), "*Lambda-Proton Physics*", R. Ransome (Rutgers); Session II (Chair, D. Dehnhard) "*LAMPF High-Energy Pion Program*", C. Morris (LANL), "*KEK High-Energy Pion Program*", T. Fukuda (INS), "*High-Energy Pion-Nucleus Scattering*", M. Johnson (LANL); Session III (Chair, D. R. Gill) "*Eta Decays*", B. Nefkens (UCLA), "*Pion Beta Decay*", K. McFarlane (Temple), "*Baryon Resonances*", M. Manley (KSU), "*New Facilities*" R. Chrien (BNL).

The workshop on "*Neutrons - Their Use for Nuclear Physics and Fundamental Symmetry*

Tests" will address diverse physics topics involving a variety of neutron beams. The preliminary program is: Session I (Chair, E. Henley) "*The Beta Asymmetry of the Neutron*", S.J. Freedman (Berkeley), "*The Determination of the Neutron Lifetime*", G. Greene (NIST), "*Measurement of the Electric Dipole Moment*", B. R. Heckel (Washington), "*Neutron Interferometry*", S. A. Werner (Missouri) "*Searches for Physics Beyond the Standard Model*", P. Herczeg (LANL); Session II (Chair, S. Austin) "*Study of Parity and Time Reversal Violation*", S. H. Yoo (LANL), "*Neutrons as a Probe in Charge Exchange Reactions*", J. Rapaport (Ohio), "*Nuclear Few-Body Systems at Low Energies*", W. Tornow (Duke), "*Electric Charge Structure of the Neutron*", J.Schmiedmayer (MIT), "*Neutrons in Astrophysics*", F.Kaeppler (Karlsruhe).

Companion's Program

A Companion's Program has been organized by Recursos de Santa Fe, a non-profit educational organization with particular emphasis on the arts, literature, culture, geography, and natural history of the Southwest. A description of the program and a reservation form is enclosed.

Registration

Preregistration fees for the three-day main meeting are \$80 for APS members, \$150 for nonmembers, and \$10 for retired and student members. After 14 September 1992, the respective fees will be \$100, \$170, and \$15, as indicated on the attached registration form. Registration fees for the workshops are \$20, increasing to \$25 after 14 September 1992, with fees being waived for students. Make your check payable, in U. S. dollars, to APS/DNP. Allow one week for your return confirmation. No credit cards will be accepted.

Refunds can be made if written cancellations are received from preregistrants postmarked prior to 14 September 1992. No refund will be allowed

for withdrawal postmarked after 14 September 1992.

The registration desk will be open throughout the Meeting beginning 4:00 p.m., 13 October, and will be located in the lobby of the Sweeney Center.

Reception and Banquet

A welcoming reception is planned for Wednesday evening, 14 October, and a banquet will be held Friday evening, 16 October, both in the Anasazi Room of the Eldorado Hotel which is convenient to both the Sweeney Center and the Santa Fe Plaza (see attached map). The banquet is optional and costs an extra \$30. The banquet at the 1988 Fall Meeting in Santa Fe was a great success with a very enlightening and entertaining talk on Chaco Canyon. We shall try to live up to that standard.

CSWP Reception

The APS Committee on the Status of Women in Physics (CSWP) is pleased to announce that it will be having a reception hosted by CSWP Chair Bunny Clark. It will be held on Thursday, 15 October, in the Zia Room of the Eldorado Hotel from 5:00 p.m. to 8:00 p.m. All are cordially invited to attend!

Meals

Coffee and rolls will be available each morning. Most of the hotels have restaurants and there are a great variety of restaurants in the vicinity of Sweeney Center. A comprehensive restaurant guide will be provided at registration.

Lodging

The Fall Meeting will use eight hotels with varying rates and services. All hotel rooms should be reserved via the attached hotel form by 21 August 1992 through the Sweeney Convention Center Housing Bureau. You are encouraged to use the

enclosed advanced housing form to indicate the hotel of your choice. For each room reserved through the Bureau, the Sweeney Center will deduct one dollar per night from the rent that the Division of Nuclear Physics pays for the use of the Center for the meeting and workshops. After August 21, 1992 the hotels must be contacted directly. The Housing Bureau will accept checks in U.S. dollars and credit cards.

Since Santa Fe is a popular resort city and a large attendance is expected at the 1992 DNP fall meeting, it is recommended that hotel reservations be made early. Each hotel is offering a substantially reduced rate and has been selected for amenities and convenience with your comfort and budget in mind. These special rates will also be valid for the evening of October 13 for those attending one of the workshops on October 14. Restaurants and shops are convenient to all hotels and all hotels have parking. If you drive to Sweeney Center, be prepared to pay a parking fee. A map showing the location of the hotels with respect to Sweeney Center is enclosed. If your first choice for a hotel is full, a reservation will be made where space is available in the order specified on the form. In the following we provide a short description of each hotel listed on the housing form.

ELDORADO HOTEL
309 W. San Francisco St., Santa Fe, NM 87501
Rates: Single/Double \$91.00, suites available

The Eldorado, an award winning southwestern Pueblo style hotel, is one block from Sweeney Convention Center. The banquet and reception will be held at this five diamond hotel.

HOTEL ST. FRANCIS
210 Don Gaspar Ave., Santa Fe, NM 87501
Rates: Single/Double \$80.00

The St. Francis, a charming 1920's style hotel listed on the National Register of Historic Places, is four blocks from the Sweeney Convention Center.

LA FONDA ON THE PLAZA
100 E. San Francisco Street, Santa Fe, NM
87501

Rates: Single/Double \$90/\$100.00, suites available

The La Fonda, an Indian Pueblo style hotel, is four blocks from the Sweeney Convention Center. The hallways and guest rooms of this hotel are handpainted with Indian designs.

GARRETT'S DESERT INN
311 Old Santa Fe Trail, Santa Fe, NM 87501
Rates: Single/Double \$79.00

The Inn is about six blocks from Sweeney Convention Center and is located near the end of the famous Santa Fe Trail.

LA POSADA DE SANTA FE
330 E. Palace Ave., Santa Fe, NM 87501
Rates: Single/Double \$90.00

At La Posada, Spanish style accommodations ramble over six acres of landscaped gardens. La Posada is approximately a ten-minute walk from the Sweeney Convention Center.

SANTA FE BUDGET INN
725 Cerrillos Road, Santa Fe, NM 87501
Rates: Single/Double \$48.00

The Budget Inn, a moderately priced motel in the high rent district near the Plaza, is a ten-minute walk from Sweeney Convention Center.

PICACHO PLAZA HOTEL
750 N. St. Francis Dr., Santa Fe, NM 87501
Rates: Single/Double \$61.00

The recently renovated Pueblo style Picacho Plaza is a fifteen-minute walk from Sweeney Convention Center. A free shuttle service is available daily from 8:00 am to 10:00 pm.

HOTEL PLAZA REAL
125 Washington Ave., Santa Fe, NM 87501
Rates: Single/Double \$65/\$75.00, suites available

The Plaza Real, a new territorial style hotel, offers a complimentary Continental breakfast and is three blocks from the Sweeney Convention Center and a half block off the Plaza.

Transportation

Albuquerque International Airport is sixty miles (~90km) southwest of Santa Fe (about 70 minutes on Interstate 25) and is serviced by most of the major domestic airlines. Shuttlejack (800-452-2665) operates a convenient and frequent shuttle service to the hotels at the rate of \$20 each way, but early reservations are strongly advised. The major car rental companies have offices at the airport.

Abstracts for Contributed Papers

In order to provide sufficient time for printing abstracts in the Bulletin the deadline for contributed abstracts is 19 June 1992. Abstracts should conform to the format specified in the enclosed instructions, and should be sent, in triplicate, to the Secretary-Treasurer of the Division of Nuclear Physics: Dr. V. R. Brown, Lawrence Livermore National Laboratory, Box 808, L-288, Bldg. 181, Livermore, CA 94550. For express mail services such as Federal Express or Emery, use 7000 East Avenue in the address in place of Box 808. Please do NOT send abstracts to the APS Headquarters. Abstracts received by Dr. Brown after the deadline cannot be included in the program.

Unfortunately, we are unable to accept abstracts sent via electronic mail such as bitnet; abstracts sent C.O.D. cannot be accepted. If more than one contributed paper is submitted with the same first author, please indicate which abstract should be assigned to the regular program; all except one will be assigned to the supplementary program. All instructions and requests regarding an abstract should appear at the bottom of the abstract itself.

There have been complaints that an increasing number of contributed abstracts are not being presented and that no notification is being given. If you or a colleague are unable to present your paper, please inform the Secretary-Treasurer in advance.

Local Committee

Members of the local organizing committee are
J. N. Bradbury, G. T. Garvey, J. N. Ginocchio (Chair),
J. B. McClelland, R. B. Perkins, R. G. H. Robertson, and D. Strottman.

For further information concerning registration contact the Local Conference Coordinator:

*Los Alamos National Laboratory
Protocol Office, MS P366
Attn: Millie Saxman
APS/DNP Local Conference Coordinator
Los Alamos, NM 87545
PHONE: 505 - 667 - 6574
FAX: 505 - 667 - 7558*

For more information concerning hotels contact:

*Santa Fe Visitors and Convention Bureau
Attn: Roxanne Smyth
P.O. Box 909
Santa Fe, NM 87504
PHONE: 1 - 800 - 777- 2489
FAX: 505 - 984 - 6679*

For additional information concerning the companion's program contact:

*Frances White
Recursos de Santa Fe
913 Calle Vistoso
Santa Fe, NM 87501
Phone: 505 - 988 - 7481*

Further details and the final program for the meeting and workshops will be given in the September Bulletin of the American Physical Society.

7. USER GROUP MEETINGS AT THE SANTA FE MEETING

It is anticipated that many groups will wish to hold user group meetings during the DNP Fall Meeting at Santa Fe, NM. In order to schedule them so as to prevent conflicts with other activities and to have them announced in the September Bulletin, it will be necessary to notify J. N. Ginocchio of the Local Committee at "*ginocchi@lampf*" before **1 July 1992**.

8. GAMMASPHERE USERS GROUP, R.V.F. JANSENS

The construction of Gammasphere, the National Gamma-Ray Facility consisting of an array of 110 Compton-suppressed detectors, is progressing rapidly. The community of potential users of the device has organized itself into a users group, and an Executive Committee has been elected. This committee consists of John Becker (Lawrence Livermore National Lab.), Jerry Garrett (Oak Ridge National Lab.), Robert Janssens (Chairman, Argonne National Lab.), Kim Lister (Secretary, Yale University), David Radford (Chalk River Lab.), and Leo Riedinger, Jr. (Univ. of Tennessee). People who are not yet members of the Gammasphere Users Group can join the organization by writing either to Dr. R. McDonald, User Liaison Physicist, MS 88, LBL, 1 Cyclotron Road, Berkeley, CA 94720 "*88users@lbl.bitnet*" or to Dr. R.V.F. Janssens, Physics Division, Argonne National Lab., Argonne, IL 60439 "*janssens@anlphy.bitnet*". A meeting of the Users Group will take place during the fall meeting of the DNP in Santa Fe.

9. FUTURE DNP FALL MEETINGS

The present schedule for fall meetings is as follows:

1992	October 14-17 Santa Fe, NM
1993	October 20-23 Asilomar, CA
1994	October 26-29 Univ. of Arizona

1995	October Indiana University
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The dates include the Wednesday "workshops", which are held in conjunction with the DNP fall meetings. Holding "workshops" at the DNP fall meetings has become a tradition which began with the 1986 Vancouver meeting. All meeting attendees are welcome and encouraged to come. It has been the intention of the DNP Executive Committees that these "workshops" should have broad appeal, with introductory pedagogical talks for the benefit of those who have come primarily for the DNP meeting but want to take the opportunity to learn about a field of specialty of the local community.

10. 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 Mrs. Maximilla Cassell (The American Physical Society, 335 East 45th Street, New York, NY 10017). Completed forms should be returned to Dr. N. R. Werthamer at the same address.

The 1992 DNP Fellowship Committee is comprised of J. B. Ball, (Chair), E. G. Adelberger, F. E. Bertrand, Jr. and E. J. Moniz. 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 APS Council for approval.

It is particularly important for nominators to ensure that the cases which 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 speciality 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.

11. UPDATE ON STATUS OF NEW DIVISION BYLAWS, J. B. BALL

The proposed new bylaws of the Division were first endorsed by the DNP Executive Committee at its meeting last fall at East Lansing and subsequently forwarded to the APS for Council approval. The bylaws were returned with a specific request for one change.

Strict compliance with the new APS Constitution and Bylaws requires a Division governance with the sequence of Vice-Chair, Chair-Elect, and Chair. Our proposed new bylaws had retained our present mode of governance which does not have the position of Chair-Elect. At D.C., a change in the proposed bylaws was approved to incorporate this new position. This version of our proposed revised

bylaws has now been resubmitted to the APS for their approval.

Providing we receive Council approval of our new bylaws, the next stages of the change process will be in accordance with our present bylaws:

- 1) A copy of the new bylaws will be sent to all DNP members with the July newsletter along with official notice of a public discussion to be held at the Santa Fe business meeting.
- 2) A public discussion of the new bylaws will be held at Santa Fe.
- 3) The new bylaws, providing there are not major changes resulting from the Santa Fe discussions, will be voted on by mail ballot at the time of our next election of officers.

12. NOMINATIONS FOR 1993 TOM W. BONNER PRIZE IN NUCLEAR PHYSICS

This annual prize was established in 1964 as a memorial to Tom W. Bonner by his friends, students and associates. Previous winners are: H. H. Barschall, R.J. Van de Graaff, C. C. Lauritsen, R. G. Herb, G. Breit, W. A. Fowler, M. Goldhaber, J. D. Anderson and D. Robson, H. Feshbach, D. H. Wilkinson, C. S. Wu, J. P. Schiffer, S. T. Butler and G. R. Satchler, S. Polikanov and V. M. Strutinsky, Roy 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. Bollinger, B. Frois and I. Sick, and R. H. Davis, E. M. Henley, V. W. Hughes, P. Twin, and H. G. Blosser and R. E. Pollock.

The purpose of this prize, which currently consists of \$5,000 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, and we currently have seven active nomination packages. While these packages may consist of nothing more than a letter of nomination, it is extremely helpful for the committee to receive additional letters of support that detail the contributions of the nominee and the impact these contributions have had on the field. It is also appropriate to submit material such as significant articles that might help us evaluate the nominee's contribution. While general statements concerning the value of the nominee's work are important, we must have specific information that allows us to determine what the nominee has contributed and how this contribution has impacted the field.

Send name of proposed candidate and supporting material before **1 September 1992** to: Robert J. Perry, Ohio State University, Department of Physics, 174 West 18th Avenue, Columbus, OH 43210.

13. BONNER-PRIZE FUNDING DEFICIT

The Tom W. Bonner Prize, which consists of \$5000 and a certificate citing the contributions made by the recipient, is awarded annually. On June 30, 1989, the fund balance stood at \$8,142, enough for one more prize in 1990. The prize was replenished in 1990 under the direction of

R. A. Eisenstein. The contributors included private corporations, universities and laboratories, and individuals. A list of contributors was published in the May 1990 Newsletter. On December 31, 1991, the fund balance was \$85,230. This is \$15,000 short of what is recommended by the APS to keep the fund self sustaining. If you missed the opportunity to contribute during the 1990 fund raising drive, now is an opportune time to make that contribution. Please make out your check to the DNP Bonner Prize Fund and send it to V. R. Brown, DNP Secretary-Treasurer, LLNL, L-288, Livermore, CA 94550.

14. PHYSICS NEWS IN 1992

Each year the AIP prepares a report entitled "Physics News". A committee chaired by the Vice-Chair of the DNP organizes articles with an attempt to insure a complete and representative description of the new developments in nuclear physics. Physics News in 1991 was published in the March 1992 issue of APS News. This year's committee is listed in this newsletter.

In order to reach a wide audience, the material is prepared in the form of a simple article, resembling an essay or a review, and covering the recent developments in our field. In selecting topics for this year's article, the Committee will take into account the scientific importance for nuclear physics as well as the impact on other fields and society; topics should represent the breadth of the field. The results of recent experiments or the status of an unfolding research story of continuing interest are appropriate.

Suggestions and brief summaries from DNP members for this year's report should be sent *as soon as possible* to Noemie Benczer-Koller, Department of Physics, Rutgers University, New Brunswick, NJ 08903.

15. NUCLEAR SCIENCE BROCHURE

The DNP Executive Committee has decided to prepare a "brochure for the non-practitioner" on nuclear science. The brochure will be used to convey the excitement of nuclear science and its uses to our colleagues in other fields as well as to Congress and the funding agencies. Gary Crawley has agreed to coordinate the effort. The science will be adapted from the Long Range Plan, but it will be written at a simpler level and with more emphasis on applications. Suggestions for topics or volunteer contributions should be sent to "crawley@msunscl.bitnet" as soon as possible.

16. BUDGET REPORT FROM THE NUCLEAR SCIENCE COMMITTEE, L. L. RIEDINGER, JR., CHAIR

The budget request for the coming fiscal year (FY93) is in the early stages of scrutiny by the Congress. As in recent years, the requested budget for research throughout the federal government is good, with a 7% increase compared to the current year. A significant part of the increase for civilian research is allotted to five presidential initiatives: advanced computing, global environmental change, science and mathematics education, biotechnology, and advanced materials.

The requested FY93 budget for the National Science Foundation is \$3,027 million, up 18% over FY92. Of this budget for Mathematical and Physical Sciences is slated for a 16.5% increase to \$726.0 million, including a 7.4% increase for Physics. The intended breakdown for NSF Physics is (numbers in millions):

	FY92	FY93	% Inc
Elementary Particles	44.9	48.4	7.9
Nuclear Sciences	44.8	48.4	7.9
Atomic, Molecular, Optical	17.9	19.0	6.2
Theory	20.0	20.8	4.2
Gravitationa	10.8	11.9	10.6
Physics Tota	138.4	148.6	7.4

In the Department of Energy, the budget for the Office of Energy Research is slated to increase by 11% to \$3370.6 million. The largest increases in this budget are for the SSC (34% to \$650 million) and infrastructure for multiprogram energy laboratories (from \$24 to 67 million). A significant part of this latter item is environmental restoration and cleanup, which is an increasingly important part of the DOE program. The requested budget for General Science is up by 12.2%, as shown in the following breakdown (dollar amounts in millions):

	FY92	FY93	% Inc.
High Energy Physics	628.0	630.0	0.5
Superconductin	483.7	650.0	34.4
Super Collider			
Nuclear Phy.	354.4	363.5	2.6
Program Dir.	6.4	8.3	29.7
Gen. Sci Total	1472.5	1652.7	12.2

Within Nuclear Physics, the budget document details the following categories:

	FY92	FY93	% Change
Medium Energy	108.1	111.4	+3.1
Heavy Ion	74.7	67.9	-9.1
Low Energy	28.4	26.1	-8.1
Theory	14.0	14.8	+5.7
Capital Equipment	30.0	32.2	+7.3
Constructio	99.2	111.1	+12.0

The Construction budget includes a ramping-up increase for RHIC (from \$49.3 to 71.4 million) and a ramping-down decrease for CEBAF (down to \$33.0

million). The budget document mentions termination of the Holifield Heavy Ion Research Facility at Oak Ridge and the Fast Neutron Generator at Argonne, and completion of experiments toward an orderly shutdown of Bevalac at Berkeley and LAMPF at Los Alamos.

It is difficult to predict the fate of these budget requests in this highly uncertain year. The 1990 Budget Enforcement Act specifies that funds previously planned for defense cannot be transferred to domestic programs. This "firewall" is supposed to last for five years, but has been challenged and maintained in recent months. Some legislators have hoped to use the "peace dividend" to aid the funding of domestic programs, but at this time that does not appear likely. Without that, there is skepticism that the federal budget will be able to support the increases mentioned above. Time will tell, as the appropriations bills wind their way through the halls of Congress.

17. NSAC REPORT AND THE SCHIFFER SUBCOMMITTEE, G.M. CRAWLEY

Because of current stringencies in the federal budget, both DOE and NSF requested NSAC to advise them on the implementation of the 1989 Long Range Plan for Nuclear Science under 3 budget scenarios for both DOE and NSF: Scenario A called for constant budget in real dollars through 1997; Scenario B for a constant budget in inflation corrected dollars through 1997; Scenario C allowed a real 2-3% per year growth above inflation through 1997. In response to this charge, NSAC appointed a subcommittee chaired by John Schiffer to make recommendations to NSAC.

The Schiffer subcommittee met 4 times between January and April, 1992. At a meeting at Argonne National Lab, the DOE budget was discussed. Presentations were made by various DOE laboratories

including RHIC, CEBAF, and LAMPF as well as by KAON. Input from individual DNP members was also provided. At a similar meeting in Washington, the NSF budget was the primary focus. Presentations were heard from MSU, Indiana and a spokesperson from the university labs (David Balamuth) and the users (Charles Glashausser). The 35 page subcommittee report was submitted to Peter Paul, the Chair of NSAC, on April 6, 1992 and was discussed and accepted at an NSAC meeting held in Washington, D.C. on April 10, 11th, 1992. Finally the subcommittee report, together with a transmittal letter from NSAC, was forwarded to Dr. William Happer of DOE and Dr. David Sanchez of the NSF around April 16, 1992. The reason for the urgency was to allow some input into the FY94 budgets for DOE and NSF which were being prepared at that time.

Other items of business addressed at the April 10, 11th NSAC meeting were the report on Nuclear Data and a request from DOE to give advice on the proposed operating budget for CEBAF. The revised report on Nuclear Data was accepted by NSAC. A subcommittee will be formed, which will include experts from outside of NSAC to review the CEBAF operating budget.

The Schiffer subcommittee endorsed the scientific priorities of the 1989 Long Range Plan (LRP) and laid out a modest base budget scenario for the period through FY97 which would permit the essential scientific goals of the LRP to be achieved. For DOE, this base budget Scenario had a total dollar amount through FY97 which corresponded approximately to the 2% increase of Scenario C, although the budgets for FY94 and FY95 exceeded this scenario by \$11 million and \$7 million respectively. For NSF, the base budget scenario was developed corresponding to the 2% growth figure of scenario C.

The DOE Summary section of the Schiffer Subcommittee report states:

The Subcommittee endorses the perspective of the Long Range Plan (LRP), and recommends that the construction of the new major facilities, CEBAF and RHIC, be completed without further delays, so that they may start their important research programs in a timely fashion. It also supports the scientific recommendation of the LRP regarding KAON. However, construction funds for this Canadian project, within the present budgetary framework, could only come toward the end of the periodic of RHIC construction.

The projected phase out of LAMPF indicated in the FY93 Congressional Budget Submission would affect what has been the major nuclear facility in the U.S. for two decades. During this time the LAMPF research program has been scientifically productive, exploiting its beams of protons, mesons and leptons and providing fresh insights into nuclear physics. At present, some first-rate and intellectually challenging experiments that utilize unique features of the LAMPF facility are almost ready to start and are likely to have significant results completed in the next few years. For the intellectual integrity of the field and for reaping the benefits of major investments of funds and efforts, the Subcommittee strongly recommends that means be found to keep the LAMPF facility operational through FY95. Beyond that point, continued operation of LAMPF would depend on the extent of support that can be obtained from the many areas outside of nuclear physics in which the LAMPF facility has been an essential contributor and on possible new nuclear physics initiatives.

The report goes on to address the three specific scenarios (A), (B) and (C) in the reverse order as follows:

With 3% growth, one of several attractive new initiatives may be started before the end of this five year period.

In (B), with no real growth, and the strong NSAC recommendation of October 1991 that the construction of CEBAF and RHIC

not be impacted further, the LAMPF program would have to be terminated abruptly, with no chance of an 'orderly phaseout', and with a serious loss of science and of a recent investment in new experimental capabilities. The high priority measurements cited in this report would not be carried out and all the LAMPF programs would end precipitously.

Under (A), resulting in a real decline in budgets, any chance of executing the Long Range Plan priorities would be seriously compromised, with a very damaging impact on the research vitality of the field. Both accelerated LAMPF phase out and withdrawal from KAON would be necessary, reducing the base budget by roughly \$150M over the five-year period. In addition, a \$40M reduction should come from research funds, a cap on operating funds for facilities, and a stretch out of RHIC construction into FY98. Such a scenario would not provide the nation the appropriate scientific return on the major investments in facilities and skilled manpower already in place.

In the NSF Summary section the report responds to the budget scenarios as follows:

In responding to the budgetary scenarios in the charge the Subcommittee again focused on the science outlined in the LRP and its implementation, arriving at a base scenario corresponding to the 2% growth scenario. This plan would enable the NSF program to address a variety of exciting forefront issues in the field and keep pace with the increasing technical complexity of experimental apparatus required for modern nuclear research.

With a 3% increase some of the very interesting new initiatives listed in the body of this report could be implemented in the NSF program.

In (B), important losses in research capability would have to occur, such as a reduction affecting one of the major user facilities. The real cuts implied by (A) imply a serious compromise of the NSF program with broader negative implications in both its scientific and

educational goals. They would require an in-depth review to identify the strongest components of the program.

In the NSAC summary of the Subcommittee Report which was forwarded with the report, NSAC made 7 points which emphasized or amplified various aspects of the report.

1. *The goals outlined in the 1989 Long Range Plan for Nuclear Science remain valid today.*
2. *In an inflation-corrected scenario without this temporary increase it is deemed impossible to effect a phase out of LAMPF that could be considered orderly. Thus this scenario sacrifices the chance to complete excellent and unique scientific programs. A flat budget in as-spent dollars would seriously damage the entire field and compromise any chance of executing the LRP priorities. It would require immediate LAMPF phase out, reductions in the base program including caps on facility operations and a stretchout of RHIC construction into FY98.*
3. *It is thus the strong conclusion of the Report and of NSAC that an orderly phase out requires operation of LAMPF for 2 more years, i.e., through FY95. In the base budget scenario analysis of the Report this can be accomplished by one-time additions of less than \$25M in FY94 and less than \$20M in FY95, over the inflation-corrected budget.*
4. *The Report and NSAC reaffirm the emphasis expressed in the 1983 and 1989 LRP on the need for a high-intensity, multi-GeV hadron beam facility and the recommendation of the 1989 LRP for a cost-effective U.S. participation in the Canadian KAON project.*

A discussion by the U.S. nuclear community of alternatives to achieve these important physics goals is

needed soon in the event that KAON is not realized.

5. *The Report thus strongly recommends a base budget with 2% real growth (for NSF) which would correct the lag behind inflation of this program for the past several years, would allow the build up of the university-based user community and permit funding for a few highly selected new initiatives.*

6. *The 1989 LRP cited several areas that may become ripe for exploitation by new initiatives later in this decade.*

If the KAON project does not proceed, a constant DOE budget would allow for one such new initiative starting in FY96 or FY97.

The NSF budget scenarios did not provide the option of a major new initiative, such as a large stand-alone detector, a major experiment at an accelerator, let alone a new accelerator. Nevertheless, such an initiative could be considered under the major capital equipment category after review by the nuclear science community.

7. *The U.S. nuclear physics endeavor ... is perched on the threshold of exciting new scientific initiatives ... Very modest budgetary flexibility over the next two years will allow the orderly evolution of the field and the realization of the exciting scientific opportunities delineated in the 1989 LRP.*

The complete text of the Schiffer report (35 pages) and the NSAC Summary (4 pages) are available on request as TEX files from "crawley@msunscl.bitnet".

18. **SUSPENSION OF PUBLICATION CHARGES FOR PHYSICAL REVIEW C COMPUSCRIPTS,
S.M. AUSTIN**

Publication charges (often called pages charges) will not be requested for papers accepted for publication in Physical Review C as compuscripts beginning 1 July 1992. A compuscript is a paper intended for production from an appropriate REVTEX, LATEX or TROFF computer file supplied by the author. The suspension of publication charges for compuscripts in Physical Review C has been approved by the American Physical Society as part of a three-year pilot program. For information about compuscripts, see the Information for Contributors in the January 1992, issue of Physical Review C. Contact "tex@apsedoff" (bitnet) or "tex@aps.org" (internet) for more detailed information.

Submission via electronic mail is encouraged for papers whose files are formatted in REVTEX or LATEX, whether intended as compuscripts or not. The files may be sent to either of the two above electronic addresses.

19. EVALUATION OF NUCLEAR STRUCTURE DATA AND THE NUCLEAR DATA SHEETS, J. CIZEWSKI

A reduction in the FY 1993 Department of Energy Data Program budget has led to a decrease in the level of funding at the Nuclear Data Center at Brookhaven. As a consequence, the BNL center will have to curtail some of its services. While the BNL nuclear structure evaluation component will be deemphasized, BNL will continue to maintain the literature scanning activities and the NSR data base. The evaluated nuclear structure data file (ENSDF) and the NSR data bases will continue to be available via on-line access. Of particular concern is the possibility that the DOE will no longer be able to support the production of the output that is used in the publication of Nuclear Data Sheets.

A fully electronic nuclear structure evaluation dissemination system is being

developed by the Isotopes Project at LBL. It is anticipated that this system will eventually replace the current form of the Nuclear Data Sheets and Recent References. The LBL group is producing the printed Table of Isotopes, with the 8th edition scheduled for publication in 1993, and will continue evaluation efforts.

The evaluation of the nuclear structure data will continue, with the efforts distributed between several U.S. centers, as well as foreign centers. This reorganization will not affect the evaluation and publication in Nuclear Physics A of the lighter mass-chains A=3-44.

At present a coordinating committee is addressing these issues, as well as possible restructuring of some aspects of the nuclear data effort. The committee's present membership is: Prof. Jolie Cizewski, representing the user community as Chair of the Nuclear Structure Evaluation Working Group (the successor of the National Academy of Science's Panel on Basic Nuclear Data Compilations); Dr. Charles Dunford, representing the cross section area; and Dr. C. Michael Lederer, representing the nuclear structure evaluation area.

Committee members can be contacted as follows: Jolie A. Cizewski, Rutgers University, (908) 932-3884, cizewski@ruthep or cizewski@ruthep.rutgers.edu; Charles Dunford, Brookhaven National Laboratory, (516) 282-2804, nndccd@bnl; and C. Michael Lederer, Lawrence Berkeley Laboratory, (510) 642-9588, uergcml@ucbcmfa.

20. ENRICHED ISOTOPES REPORT, L. L. RIEDINGER, JR.

On February 20-21, a Workshop on Availability of Isotopically Enriched Materials was held at the National Academy of Sciences in Washington. This workshop, an outgrowth of concerns expressed by several different communities

about the current and future availability of stable isotopes and radioisotopes, was organized under the auspices of the National Research Council's Committee on Nuclear and Radiochemistry with the cooperation of the Institute of Medicine.

At the workshop, researchers from a wide variety of disciplines made presentations on their uses of enriched isotopes. Industry and government officials spoke about the issue from their perspectives. Steve Yates and Lee Riedinger made presentations about the importance of this material to nuclear science. Everyone was impressed by the extremely diverse needs for enriched isotopes in so many fields, including physics, chemistry, geology, nutrition, nuclear medicine, biology, etc. Those attending were very concerned about the problems afflicting the isotopes program, i.e. the increase in cost of material for sale or for lease, the current shutdown of the calutrons (which produce new enriched isotopic material), the sale of material from the "loan pool", and the closing of the laboratory to perform chemical conversions and target fabrication.

There were at least two positive results of this workshop. First, everyone concluded that the issue is important enough and the circumstances dire enough that the Academy should seek funding to do a full study of the problem, resulting in recommendations of how to fix it. Secondly, the diversity of the group led to a real understanding of the scope of the problem and the sincerity of Department of Energy officials in finding solutions. Hopefully joint creative thinking will lead to new directions. Still, from the nuclear science viewpoint, the problems continue. It is not clear at this time if the "target-making" lab will be re-established somewhere. It is uncertain how much we will have to depend on Russian-made isotopes in the future as the Oak Ridge supplies dwindle. The DNP will stay close to the issue in order to provide input on our

needs and contribute ideas to potential solutions.

21. INSTITUTE FOR NUCLEAR THEORY, W. C. HAXTON

Programs for the national Institute for Nuclear Theory have been scheduled through 1993. They include Strangeness in Hadronic Physics, organized by Carl Dover (*dover@bnldag*) and Ben Gibson (*gibson@lampf*), June 8 - August 31, 1992; Microscopic Nuclear Structure, organized by Bruce Barrett (*bbarrett@arizrvax*) and James Vary (*jvary@alisuvax*), Sept. 8 - Dec. 18, 1992; Nuclear Physics of Atoms and Molecules, organized by Eugen Merzbacher (*ulysse@unc*), Jim Friar (*friar@lampf*), and Berndt Muller (*muller@phy.duke.edu*), Feb. - May, 1993; Phenomenology of Lattice QCD, organized by Stephen Sharpe (*sharpe@landau.phy.washington.edu*), Gregory Kilcup (*kilcup@ohstpy*), and John Negele (*negele@mitlns*), June - August, 1993; and Large Amplitude Collective Motion, organized by Aurel Bulgac (*bulgac@msunscl*) and George Bertsch (*bertsch@msunscl*), Oct. 1 - Dec. 15, 1993. The 1992 programs have substantial waiting lists. Physicists interested in attending any of the 1993 programs should apply as early as possible. The 1993 summer program will include a two-week school for students and postdocs interested in lattice gauge theory.

The INT's National Advisory Committee will meet in August to select programs for 1994. Community members interested in proposing new programs should write to Wick Haxton, Institute for Nuclear Theory, University of Washington HN-12, Seattle, WA 98195, prior to July 15, 1992. One to two pages describing the proposed physics program and listing a few key participants is required.

22. 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, Virginia R. Brown, Lawrence Livermore National Laboratory, P. O. Box 808, L-288, Livermore, CA 94550.

1992 Prices: In what follows the price for U.S.A. is before the slash; the price for "Other Countries, including Canada" follows the slash. Volumes 12-41 are \$55/\$60 retail and \$39/\$42 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.*

23. FUTURE CONFERENCES

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

"American Chemical Society National Meeting--Division of Nuclear Chemistry and Technology," to be held 5-10 April 1992, in San Francisco, CA. Symposia include "Production and Utilization of Radioactive Nuclear Beams," "Applications of Rare Isotopes as Tracers in Accelerator Mass Spectrometry," "Transactinium Science," and "Radiation and Society: A Pedagogical Symposium." [For further information contact: S. W. Yates, University of Kentucky, Lexington, KY 40506-0055, phone: (606) 257-8075, bitnet: *yates@ukcc*.]

"Fourth International Spring Seminar on Nuclear Physics: The Building Blocks of Nuclear Structure," to be held 18-22 May 1992, in Amalfi, Italy. [For further information contact: A. Covello, Dipartimento di Scienze Fisiche, Universita

de Napoli "Federico II" Mostra d'Oltremare, Pad. 20, I-80125 Napoli, Italy, phone: 39 81 7253402, fax: 39 81 614508, telex: 720320 INFNNA I, bitnet: *covello@na.infn.it*.]

"International Conference on Nuclear Structure at High Angular Momentum," to be held May 18-21, 1992, in Ottawa. [For further information, contact June Elliott/Harlene Yeas, Chalk River Laboratories, Chalk River, Ontario, Canada K0J 1J0, phone: ^613) 584-3311, fax: (613) 584-4024, bitnet: *tascc@crl.aecl.ca* or Cheryl Johnson, Physics Department, ABB241, McMaster University, Hamilton, Ontario, Canada L8S 4M1, phone: (416) 525-9140, fax: (416) 528-5030.]

"Workshop on Large Gamma-Ray Detector Arrays," to be held May 22-23, 1992, at Chalk River Laboratories. [For further information, contact June Elliott/Harlene Yeas, Chalk River Laboratories, Chalk River, Ontario, Canada K0J 1J0, phone: ^613) 584-3311, fax: (613) 584-4024, bitnet: *tascc@crl.aelc.ca* or Cheryl Johnson, Physics Department., ABB241, McMaster University, Hamilton, Ontario, Canada L8S 4M1, phone: (416) 525-9140, fax: (416) 528-5030.]

"Baryons '92; International Conference on the Structure of Baryons and Related Mesons," to be held 1-4 June 1992, at Yale University, New Haven, CT. [For further information contact: Moshe Gai, Physics Dept., Yale University, 272 Whitney Ave., New Haven, CT 06511, phone: (203) 432-5195, fax: (203) 432-3522, bitnet: *gai@yalevm*.]

"5th Annual Summer School in Nuclear Physics Research," to be held July 5-18, 1992, in Corvallis, Oregon, USA. S. Vigdor, Organizer. [For further information contact Philip J. Siemens, OSU Physics Department, 301 Weniger Hall, Corvallis, OR 97331-6507, phone: (503) 737-1697, fax: 1683, email: *siemens@physics.orst.edu*.]

"Cyclotrons '92, the 13th International Conference on Cyclotrons and their Applications," will be held in Vancouver, Canada, from 6-10 July 1992, sponsored by IUPAP and hosted by TRIUMF. [For further information please contact Maureen Iqbal, Cyclotrons '92, TRIUMF, 4004 Wesbrook Mall, Vancouver, B.C., Canada V6T 2A3 fax: (604) 222-1074, bitnet: cyc92@triumfcl, internet: cyc92@erich:truimf.ca, hepnet: 45387::cyc92 or erich::cyc92.]

"6th International Conference on Nuclei far from Stability" and "9th International Conference on Atomic Masses and Fundamental Constants," to be held 19-24 July 1992, at the Mosel-Hotelpark, Bernkastel-Kues, Germany. [For further information contact: NFFS_AMCO, K. Wendt, Institut für Physik, Postfach 3980, D-6500 Mainz 1, F.R.G., phone: 0049-6131-39-3628 or 2882, fax: 0049-6131-39-2991, e-mail: nffs_amco@vimpza.physik.uni-mainz.de.]

"1992 International Nuclear Physics Conference," to be held July 26 to August 1, 1992, in Wiesbaden, Germany. [For further information contact: Prof. Rudolf Bock, International Nuclear Physics Conference, GSI, P.O. Box 110552, D-6100 Darmstadt 11, Germany, phone: 49 6151 359-888 and 359-889, fax: 49 6151 359-989, telnex: 04-19593, bitnet: inpc@ddags13.]

"Gordon Research Conference on Photonnuclear Reactions," to be held August 10-14, 1992, at the Tilton School, Tilton, New Hampshire. [For further information contact D. M. Skopik, Saskatchewan Accelerator Laboratory, University of Saskatchewan, Saskatoon, Saskatchewan S7N 0W0, phone: (306) 966-6054, fax: (306) 966-6058.]

"American Chemical Society National Meeting--Division of Nuclear Chemistry and Technology," to be held 23-28 August 1992, in Washington, DC. Symposia include "Nuclear Shapes," "Radiochemistry and Safety Aspects of the Next Generation of Nuclear Power Plants," "Radionuclide

Generator Systems for Nuclear Medicine Applications," and "Pre-College Education in Nuclear Science." Abstract deadline is April 24. [For further information contact: S. W. Yates, University of Kentucky, Lexington, KY 40506-0055, phone: (606)257-7085, bitnet: yates@ukcc.]

"Symposium on Nuclear Data Evaluation Methodology," to be held 12-16 October 1992, at Brookhaven National Laboratory, Upton, New York. [For further information contact: 92BNL Symposium, National Nuclear Data Center, Brookhaven National Laboratory, Upton, New York 11973, phone: (516) 282-2902, fax: (516) 282-2806, telex: 6852516 BNL DOE, internet: nndc@bnl.gov, bitnet/earn: nndc@bnl.]

"Twelfth International Conference on the Application of Accelerators in Research and Industry," to be held 2-5 November 1992, at the University of North Texas, Denton Texas. [For further information contact: J. L. Duggan, Univ. of North Texas, Dept. of Physics, P.O. Box 5368, Denton, Texas 76203, phone: (817) 565-3252 or 3250, fax: (817) 565-2227, bitnet: fc66@untvax.]

"The International Workshop on Polarized Ion Sources and Polarized Gas Targets," to be held 23-27 May 1993, at the University of Wisconsin, Madison, Wisconsin. [For further information contact: Prof. L.W. Anderson or Prof. W. Haeberli, Department of Physics, University of Wisconsin, 1150 University Avenue, Madison, Wisconsin 53706, phone: (608) 262-6555/8962, fax: (608) 262-3598, email: bitnet%madspin@wiscnuc.]

"Third International Conference on Radioactive Nuclear Beams," to be held 24-27 May 1993, at Michigan State University. [For further information contact: David J. Morrissey, National Superconducting Cyclotron Lab, Michigan State University, East Lansing, Michigan 48824, phone: (517) 355-9554, fax: (517) 353-5967, internet: morrissey@cycvax.nscl.msu.edu, bitnet: morrissey@msunscl.]

*"8th International Symposium, on
Capture Gamma-Ray Spectroscopy and
Related Topics,"* to be held 20-24 September
1993, in Fribourg, Switzerland. [For further
information contact: J. Kern, Physics
Department University, CH-1700 Fribourg,
Switzerland, phone: (41) (37) 826233, fax:
(41) (37) 826519, bitnet: *kern@cfruni52.*]