



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.
- A ballot for voting for a second DNP Division Councilor.
- A ballot for the Adoption of the New DNP Bylaws.
- "New" DNP Bylaws.

**20-23 OCTOBER DNP MEETING,
ASILOMAR, CA**

- A pre-registration form which includes workshops and banquet.
- A housing form.

Future Deadlines



- **18 June 1993-** Contributed Abstracts for the Asilomar Fall Meeting (See item 9).
- **25 June 1993 -** User Group Deadline in Order to Appear in the October Bulletin (See item 9).

- **9 July 1993-** Election Ballot for DNP Div. Councilor (See item 2).
- **9 July 1993-** Nomination Ballot for DNP Elections (See item 3).
- **9 July 1993-** Ballot for DNP New Bylaws (See item 4).
- **1 Sept. 1993-** Nominations for 1994 Dissertation Award (See item 5).
- **1 Sept. 1993-** Nominations for 1994 Bonner Prize (See item 6).
- **17 Sept. 1993-** Last day for Asilomar "Special" Preregistration rates and last day for lodging reservations at the Asilomar conference grounds.

1. DNP COMMITTEES

Executive Committee

Noemie Benczer-Koller, Rutgers Univ., Chair (1994)

Carl B. Dover, BNL, Vice-Chair (1994)

Wick C. Haxton, Univ. of Washington, Past-Chair (1994)

Virginia R. Brown, LLNL, Secretary-Treasurer (1994)

Gerald T. Garvey, LANL, Division Councilor (December, 1993)

Stephen E. Koonin, Caltech, Division
Councilor (December, 1995)
Lawrence S. Cardman,
CEBAF (1994)
Walter Henning, ANL (1994)
Robert D. McKeown, Caltech (1994).
Susan J. Seestrom, LANL (1995)
Brian D. Serot, Indiana Univ. (1995)
Stephen J. Wallace, Univ. of
Maryland (1995)

Program Committee

Carl B. Dover, BNL, Chair
Noemie Benczer-Koller, Rutgers
Univ., Past Chair
Wick C. Haxton, Univ. of
Washington, Past-Chair
Virginia R. Brown, Secretary-
Treasurer, LLNL
Frank T. Avignone, Univ. South
Carolina
Bruce R. Barrett, Univ. of Arizona
R. Russell Betts, ANL
Fred E. Bertrand, ORNL
Billy E. Bonner, Rice Univ.
Joseph A. Carlson, LANL
Thomas D. Cohen, Univ. of
Maryland
Paul. D. Cottle, Florida State Univ.
Grant J. Mathews, LLNL
James. S. McCarthy, Univ. of
Virginia
Bradley M. Sherrill, Michigan State
Univ.
Edward Shuryak, SUNY at Stony
Brook
Dennis M. Skopik, Univ. of
Saskatchewan
Stephen G. Steadman, MIT
Steven E. Vigdor, Indiana Univ.
Gordon J. Wozniak, LBL
Roy Whitney, CEBAF

1994 Bonner Prize Committee

A. B. Balantekin, Univ. of Wisconsin
(Chair)
F. P. Calaprice, Princeton **(Vice-
Chair)**
J. A. Cizewski, Rutgers

S. Kowalski, MIT
R. E. Pollock, Indiana Univ.

1995 Bonner Prize Committee

F. P. Calaprice, Princeton **(Chair)**
D. F. Geesaman, ANL **(Vice-Chair)**
H. G. Blosser, Michigan State Univ.
F. Iachello, Yale

1994 Dissertation Award Committee

N. Benczer-Koller, Rutgers **(Chair)**
W. C. Haxton, Univ. of Wash.
B. R. Holstein, Univ. of Mass.
E. V. Hungerford, Univ. of Houston
J. Rapaport, Ohio Univ.

1993 Fellowship Committee

G. M. Crawley, MSU **(Chair)**
E. J. Moniz, MIT
V. E. Viola, Jr., Indiana Univ.

1994 Fellowship Committee

W. C. Haxton, Univ. Wash. **(Chair)**
J. Matthews, MIT
V. E. Viola, Jr., Indiana Univ.

Nominating Committee

T. J. Bowles, LANL **(Chair)**
J. A. Cizewski, Rutgers
G. T. Garvey, LANL
S. E. Koonin, Caltech

Nuclear Science Resources Committee

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

Physics News Committee

C. B. Dover, BNL **(Chair)**
G. F. Bertsch, Univ. of Wash,
B. S. Kumar, Yale
J. W. Negele, MIT

R. G. Hamish Robertson, LANL
S. J. Wallace, Univ. Maryland

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

2. SPECIAL ELECTION FOR ADDITIONAL DNP COUNCILOR AND DNP MEMBERSHIP

Besides the additional dues revenue, the size of the DNP membership is a significant factor in how well the DNP can represent the interests of the nuclear physics community in the APS as well as in the planning for the future of the field. The new APS Constitution and Bylaws state that the number of Division Councilors is determined by the subunit membership at the end of December in the year prior to the year an election would be held to replace an existing Division Councilor. At the end of 1991 the DNP membership was 2,417, which was 5.59% of the APS membership of 43,207. This was insufficient for the DNP to maintain two Division Councilors. At the end of 1992, thanks to a vigorous campaign by many DNP members, the membership reached 2,896, which was 6.62% of the APS membership of 43,710. This is sufficient to elect a new DNP Councilor, who will begin a four year term in January 1994, replacing G. T. Garvey.

The candidates selected by the Nominating Committee are Peter Paul, SUNY at Stony Brook and R.G.Hamish Robertson, LANL. The candidates biographies follow and the ballot is enclosed. The Nominating Committee consisted of J. A. Nolen (Chair), B. C. Clark, G. T. Garvey, and S. E. Koonin.

The enclosed election 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 **9 July 1993** in order to be counted.

Candidate Biographies

PETER PAUL -- Distinguished Service Professor, State University of NY at Stony Brook, 1992-present, Professor of Physics, SUNY-SB 1971-92; Associate Professor, SUNY-SB 1969-71; Assistant Professor, SUNY-SB 1967-69; Act. Assistant Professor, Stanford University 1965-67; Research Associate, Stanford University, 1960-64; Ph.D. in Physics, University of Freiburg (Germany) 1959. A.P. Sloan Fellow, 1967-70, Humboldt Foundation Fellow 1983-84, Fellow American Physical Soc.; Visiting Professor, University of Cologne 1969, MPI-Kernphysik Heidelberg, 1975-76 and 1983-84, University of Giessen, 1991; Director, Superconducting Heavy Ion LINAC project at SUNY-SB, 1977-83; chairman Department of Physics SUNY-SB, 1986-1990, Associate Dean SUNY-SB, 1991-93; Member NSAC 1980-83; chairman, NSAC 1989-92; member DOE Major Fac. Rev. Committee, 1981; Oversight Committee for Physics Division at BNL, 1982-85; Oversight Committee for Physics Div. ANL, 1984-87; chairman DOE Review of Heavy Ion Facilities, 1987; chair of Scientific Advisory Council of KVI-Groningen, 1984-present; member Scientific Council, MPI-Kernphysik- Heidelberg, 1986-present; chairman, Nuclear and Particle Physics Panel for Physics in Denmark, 1991; member NSF Advisory Committee for Physics, 1992-present, member DOE Fusion Energy Advisory Panel for Inertial Confinement Fusion, 1992/3; member Scientific Advisory Council for COSY-Juelich, 1993-present; Research interests include nuclear structure and nuclear reaction physics near the barrier, giant resonance studies in hot nuclei and of the properties of hot nuclear matter, high

energy electromagnetic transitions, development of superconducting resonators for heavy ion acceleration.

R. G. HAMISH ROBERTSON -- Fellow, Los Alamos National Laboratory, 1988-; Staff Member LANL, 1981-; Professor of Physics, Michigan State University, 1981-2; Associate Professor, MSU, 1978-81; Assistant Professor, MSU, 1973-78; Assistant Research Professor, MSU, 1972-73; Research Associate, MSU, 1971-72; Ph.D. McMaster 1971; B.A., M.A. Oxon. (1st cl.) 1965; Visiting Scientist, Chalk River Nuclear Laboratories, 1980; Visiting Scientist, Argonne National Laboratory, 1979; Research Associate, Princeton University, 1975; Alfred P. Sloan Foundation Fellowship, 1976; Associate Member, Institute of Physics (London); Member, Canadian Association of Physicists; Fellow, American Physical Society; Member, ad hoc panel of young nuclear scientists to the Committee on Nuclear Science of the National Academy of Sciences; Member, NSAC Instrumentation Subcommittee; Member, Nuclear Physics Panel of NAS Physics Survey Committee; Member, APS Program Committee, Division of Nuclear Physics; Member, APS Bonner Prize Committee; Member, APS DNP Executive Committee; Organizing Committee, 6th International Conference on Atomic Masses, East Lansing, 1979; Review Panel, NSF-supported Tandem Laboratories, 1981; Review Panel, DOE-supported Heavy-Ion Outside Users' Programs, 1982; Referee, Physical Review C and D, Physics Letters, Physical Review Letters, and Journal of Geophysical Research; Member, NSERC (Canada) Grant Selection Committee, 1983 - 86; Member, NSAC Long-Range Plan Working Group, 1989; Member and Chair, Lawrence Berkeley Laboratory Nuclear Science Division Review Panel, 1986 - 89; Chair, LAMPF Electroweak Program Advisory Committee, 1990-93; Member NSF Special Emphasis Panel on Evaluation of NSF Low-Energy Nuclear

Physics Accelerator Laboratories, 1993; Editorial Board, Physical Review D, 1992-. Research interests: weak interactions, nuclear astrophysics, neutrino properties and solar neutrinos, nuclear instrumentation, symmetries in nuclear and particle physics.

3. NOMINATION OF OFFICERS AND EXECUTIVE COMMITTEE FOR 1994

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 Crystal City, VA, 18-22 April 1994. Carl B. Dover will become Chair and Susan J. Seestrom, Brian D. Serot, and Stephen J. Wallace will remain members of the Executive Committee. A Chair-Elect, Vice-Chair, Secretary-Treasurer, and three members of the Executive Committee are to be elected before April 1994. If the new DNP Bylaws are ratified, the additional DNP officer, Chair-Elect, must be added. (See item 4.)

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 **9 July 1993** 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 (58 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 1992 there were only 49 nomination forms received by the Secretary-Treasurer. More members vote in the DNP elections, but for 1992 only

about 788 election ballots were mailed in by members. **It is important to vote!**

4. NEW DIVISION BYLAWS

The proposed new bylaws of the Division were first endorsed by the DNP Executive Committee at its meeting 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. The enclosed bylaws, which have been approved by the APS, incorporate this change.

The enclosed ballot for the adoption of the new bylaws 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 **9 July 1993** in order to be counted. The DNP bylaws will be adopted if elected by a simple majority of the returned ballots. The DNP Executive Committee recommends adoption.

5. 1994 DISSERTATION AWARD IN NUCLEAR PHYSICS

This 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, and James Edward Koster.

Nature: The Award consists of \$1,000 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.

Send before **1 September 1993** the name of the proposed candidate, a summary of up to four pages of the thesis research, and a statement of his/her contribution to it as well as any contributions from others. A letter of support from the physicists who are familiar with the candidate and the research. To expedite the process, copies of the thesis should be made available for the five Committee members. This information is required and should be sent to Professor Noemie Benczer-Koller, Department of Physics, Rutgers University, New Brunswick, NJ 08903.

6. NOMINATIONS FOR 1994 TOM W. BONNER PRIZE IN NUCLEAR PHYSICS

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

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. 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 1993** to: A. B. Balantekin, Dept. of Physics, Univ. of Wisconsin at Madison, 1150 University Ave., Madison, WI 53706.

7. FUTURE DNP FALL MEETINGS

The present schedule for Fall meetings is as follows:

1993	October 20-23	Asilomar, CA
1994	October 26-29	Williamsburg, VA
1995	October 25-28	Bloomington, IN
1996	October 16-19	Cambridge, MA

At the 1993 Washington Spring meeting, the DNP Executive Committee voted to hold its 1996 Fall meeting in Cambridge at the invitation of S. Kowalski from MIT.

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.

8. DNP BUSINESS MEETING AT THE 1993 SPRING APS MEETING, WASHINGTON, DC

The Business Meeting of the DNP was held at 17:00, Wednesday, 14 April in the North Salon of the Ramada Renaissance Techworld Hotel following Session K1. The meeting opened with those elected to APS Fellowship in the DNP, Thomas Joseph Bowles, Alan Leonard Goodman, Christopher Robert Gould, Hans Herbert Gutbrod, Robert V. F. Janssens, Joseph I. Kapusta, Ronald Martin Laszewski, Nimai Chand Mukhopadhyay, J. Michael Nitschke, Gerald Alvin Peterson, Robert Page Redwine and Glenn Reid Young, and congratulations to the Bonner Prize recipients Akito Arima and Francesco Iachello.

The outgoing DNP Chair, Wick C. Haxton, 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, Noemie Benczer-Koller. Koller reported on the membership growth and the resultant second DNP/APS Councilor 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.

The incoming DNP Program Chair, Carl B. Dover, reported on the plans for the 1993 Fall meeting at Asilomar, CA. See Item 9 of this newsletter for more details.

Others items on the agenda included a report on the DOE and NSF budget processes from Dave Hendrie,(DOE) and Jack Lightbody (NSF). See item 12 for summary of the budget situation. Ernie Moniz, NSAC Chair, gave a report on the recent NSAC meeting and efforts to correct the current nuclear science budget difficulties. (See item 13.) Gary Crawley gave a report on the progress of the DNP Brochure. (See item 14.)

**9. DNP FALL MEETING AT
ASILOMAR CONFERENCE
CENTER IN PACIFIC GROVE, CA,
20-23 OCTOBER 1993**

The Annual Fall Meeting of the Division of Nuclear Physics will be held 21-23 October at the Asilomar Conference Center in Pacific Grove, California. The Asilomar Conference Center is a unit of the California State Park System and occupies 105 secluded acres of pines and dunes along the ocean's edge of the Monterey Peninsula. Asilomar is noted for the beauty of its natural setting -- its wind-twisted trees, the rolling, shifting dunes, and the mighty Pacific breakers beating against the shore. It is also close to other attractions of the Monterey Peninsula, such as the 17-Mile Drive; Pt. Lobos; historical points of interest in Monterey including Fisherman's Wharf

and Cannery Row (now the home of the Monterey Aquarium); quaint shops; the Carmel Mission; Big Sur State Park; and the Butterfly Trees in Pacific Grove.

Meeting Program

The meeting will consist of six sessions of invited papers, one of which is the plenary session, and approximately 20 sessions of contributed papers. Two of the invited sessions will be on topics selected by the program committee at the recent Washington APS meeting. One session on "*Hadron Structure at Intermediate and High Energy*" will be arranged by R. Whitney (CEBAF). Another session with the tentative title "*Topics in Heavy-Ion Physics*" is being arranged by R. R. Betts (ANL) and S. G. Steadman, session chair (MIT). A third session organized by the Local Committee on "*Radioactive Nuclear Beams*" has being arranged by B. M. Sherrill (MSU) and J. M. Nitschke, session chair (LBL). The speakers and titles of their talks for this session are "*Study of Stellar Nucleo-Synthesis Processes with Radioactive Beams*", S. Woosley (UC Santa Cruz), "*Skins and Halos in Exotic Nuclei*", H. Esbensen (ANL), "*Nuclear Structure Studies far from Stability with High Energy Radioactive Beams*", D. Morrissey (MSU), and "*Near and Long Term Prospects for Physics with Radioactive Beams*", J. Garrett (ORNL). The remaining two invited sessions will be selected by the DNP Program Committee from nominations made by the DNP membership at large. Overhead projectors will be provided in each room; slide projectors will only be available for invited papers (if requested in advance).

Workshops

Prior to the Divisional Meeting, three workshops will be held on Wednesday, 20 October, also at the Asilomar Conference Center. The workshops will run in parallel. A \$25

registration fee covers all three workshops. Registration will begin on 19 October at 15:00 - 21:00 and continue at 8:00 on 20 October. Registration for the DNP meeting can also be accomplished at that time.

A workshop on "*Physics Opportunities with Large Ge Detector Arrays; Present and Future*" is being organized by J. A. Becker, Chair (LLNL), M. A. Deleplanque (LBL) and J. A. Cizewski (Rutgers). During the last several years, there has been an outpouring of physics from the current generation of large Ge detector arrays. To follow up the physics opportunities uncovered by these now mature devices, a new generation of very large arrays (EUROGAM, GAMMASPHERE, and GASP) have been designed and are under construction. The first phases of these new arrays are operating and producing exciting physics results. This workshop will provide an introduction to the physics opportunities, the current physics problems under study, and a look to the future.

A workshop on "*Multi-fragmentation*" is being organized by D. Cebra (UC Davis), G. Fai (KSU), C. K. Gelbke (MSU), J. Natowitz (TAMU), and H. G. Ritter (LBL). During the course of violent nucleus-nucleus collisions, regions of hot, dense nuclear matter are formed. A large body of data from new 4π detectors is now available that is challenging existing reaction models. These detailed experimental studies have examined the final states of the disassembly process which have been compared to microscopic models that track the evolution of the reaction through its collision stage. By varying the model parameters, one can obtain insights about the equation of state of nuclear matter and the transition between the cold liquid-drop phase and a Fermi gas of unbound nucleons. Recent theoretical simulations have indicated the

exciting possibility of forming exotic nuclear shapes (disks, donuts, bubbles) as transient structures in heavy-ion collisions. This workshop will present the latest experimental and theoretical studies as well as the physics opportunities opened up by this new generation of 4π detectors.

A workshop on "*Frontiers in Neutrino Physics*" is being organized by K. Lesko (LBL), S. J. Freedman (UCB), B. Fujikawa (LBL), and A. Garcia (LBL). The recently reported SAGE and GALLEX neutrino fluxes, Kamioka's real-time observations of solar neutrinos, and the first observations of neutrinos from a supernova have greatly increased the nuclear physics community's interest in neutrino physics. The next generation of neutrino detectors is now under construction and will begin observations in the next few years. This workshop will address the Solar Neutrino Problem and possible solutions, emphasizing these new data and the capabilities of the new detectors. We will also address the closely related topics of accelerator and reactor studies of neutrino oscillations, atmospheric neutrino anomalies, and possible supernova neutrino signatures, again emphasizing the next generation of experiments.

Plenary Session

We are planning a Plenary Session for the Asilomar meeting that will cover topics of current concern to the Nuclear Physics community. Talks contrasting the pressures towards initiatives of immediate benefit to society with the need to maintain healthy and innovative scientific activities provide the focus of this session. Topics under consideration include, "*the outlook for nuclear science in the United States and abroad in the present atmosphere of tight budgets*", "*contributions that nuclear scientists can make toward preservation and restoration of the environment*", and "*the next initiative in*

hadron physics." If you have any suggestions of topics that may be of interest to the community at large, please contact N. Benczer-Koller as soon as possible (nkoller@ruthep).

Registration and Accommodations

On-site registration for the meeting will take place from 8:00 - 21:00 on Wednesday 20 October and from 8:00 - noon on 21 October. The pre-registration fees are \$90 for DNP members, \$190 for non-DNP members, and \$10 for retired and unemployed members and students. The cost of the workshop is an additional fee of \$25. The cost of registration will increase after the preregistration date of **17 September 1993**.

Space, limited to about 600 participants, has been reserved at Asilomar and is in both "historic" and "deluxe" accommodations. Single accommodations (one person per room) at Asilomar are extremely limited. Special requests may be made by contacting Mollie Field in the Conference Coordination Group at LBL. Every effort will be made to accommodate these requests. For those individuals unable to acquire single accommodations at Asilomar, off-site housing is available at nearby hotels. Please contact Mollie Field (510) 486-6386 for a current listing of these hotels.

A facility day-user's fee of \$35 per day will be charged to those participants staying off site. This fee allows access to all meeting and recreational facilities and entrance to the banquet. Those choosing to stay off-site must purchase an Asilomar meal ticket to be able to eat in the Center's dining hall (except the banquet). These tickets may be purchased from the Asilomar staff upon arrival at the symposium.

The package rates, (refer to enclosed registration form), include lodging fees

and meals (from dinner on Wednesday, 20 October through lunch on Sunday, 24 October, including a banquet). The additional amount for the workshop (the night of 19 October) is also indicated. Accommodation fees at Asilomar are sold as a package. No refunds can be made for early departure.

Requests for accommodations must be received by **17 September 1993**. Please use the accompanying reservation form, returning it and your check (we are unable to accept charge cards) to APS/DNP 1993 Conference Coordinator, Mail Stop 50F, Lawrence Berkeley Laboratory, Berkeley, California 94720 USA. For additional information concerning accommodations contact Mollie Field at the above address, phone (510) 486-6387 or "*mollie@lbl.gov*".

Special Events

A welcoming reception is planned for Wednesday evening, 20 October. A banquet at Asilomar Conference Center is planned for Thursday evening, 21 October. An evening visit to the Monterey Aquarium is planned for Friday, 22 October. No formal Companion's Program is planned during the meeting but information about sights in the Monterey area will be available.

Access to Asilomar

Asilomar, located on the Monterey Peninsula, is a one hour flight from the San Francisco Bay Area. There are many flights available from the Bay Area's three airports (San Francisco, Oakland, or San Jose) connecting national and international flights to the Monterey Airport. Conference participants are advised to make these reservations as part of their whole flight. Transportation from San Francisco will not be provided. Transportation from the Monterey Airport to Asilomar is available by limousine service or taxi. The "Airport Limousine"

provides service to Asilomar for a cost of \$18.00/person one-way for 1-3 people. Reservations must be made in advance by phoning (408) 372-5555 or by faxing information (airline, arrival date and time) to (408) 373-8975. The cost of taxi service to Asilomar varies from \$12.00 - \$24.00 depending on time of day and traffic conditions. For those who prefer to drive or car-pool, Asilomar is a 2.5 hour drive from the San Francisco and Oakland airports.

All major automobile rental agencies are available at San Francisco, Oakland or San Jose airports. Remember to get the appropriate complimentary maps. From the San Francisco Bay Area, there are three main routes. One is **inland**, the second follows the **coast**, and the third is a **combination** of the two.

Inland Route - Highway 101, the fastest route, passes by the San Francisco airport on the west side of the S.F. Bay. Traveling south it goes by the San Jose airport and then moves through the center of America's Saladbowl, the Salinas Valley. In Salinas, turn west on Highway 156, which connects with Highway 1 in Monterey. Take Highway 1 toward Carmel, exiting at the "Pacific Grove/Pebble Beach" turnoff. **Turning right, you will be on State Highway 68. Follow this winding road through three stop lights. After the third light, veer left onto Sunset Drive. After the second stop sign, turn right onto Asilomar Blvd. The second gate on the left is the entrance to the conference center.**

Coastal Route - US Highway 1 follows the bluffs of the Peninsula with redwood forests on one side and the Pacific on the other. The highway continues through Año Nuevo, Santa Cruz, and the agricultural and fishing communities of the Monterey Bay. (There are many fine sights and restaurants along the way.) Follow Highway 1 to the "Pacific Grove/Pebble Beach" turnoff. From here you follow the

directions at the end of the previous paragraph.

Combination Route - One can also take Highway 880, which is on the east side of the S.F. Bay and passes by the Oakland and San Jose airports. Highway 880, which becomes Highway 17 in San Jose, connects with Highway 101 in San Jose or Highway 1 in Santa Cruz. Then follow directions as above.

Deadlines and Rules for Submitting Abstracts

In order to provide sufficient time for printing abstracts in the Bulletin, the deadline for contributed abstracts is **18 June 1993**. 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 by fax or 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

Further details on the meeting and the final program will be given in subsequent newsletters and in the May and September issues of the APS News. Members of the local organizing committee are G. J. Wozniak (Chair), LBL, J. A. Becker, LLNL, V. R. Brown, LLNL, D. Cebra, UC. Davis, K. T. Lesko, LBL, and J. M. Nitschke, LBL.

User Group Meetings at Asilomar

It is anticipated that many groups will wish to hold User Group meetings during the Fall meeting at Asilomar. In order to schedule them so as to prevent conflicts with other activities and to have them announced in the October Bulletin, it will be necessary to notify Mollie Field of the Conference Coordination Group or G. Wozniak, of the Local Committee, by **June 25, 1993**.

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 1994 DNP Fellowship Committee is comprised of W. C. Haxton (Chair), J. Matthews, and V. E. Viola. 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 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.

11. "PHYSICS NEWS IN 93", C. B. DOVER

A DNP Subcommittee for Physics News 1993 has been formed. The members are George Bertsch (University of Washington), Carl Dover (Brookhaven,

Chair), Shiva Kumar (Yale), John Negele (MIT), Hamish Robertson (Los Alamos) and Steve Wallace (Maryland). In the next few months, the committee will be preparing a summary of the most exciting developments in nuclear physics in the past year, for publication in the March 1994 issue of APS News. Members of the DNP are encouraged to suggest topics for Physics News to Carl B. Dover "dover@bnldag.bitnet".

12. BUDGET UPDATE FROM THE NUCLEAR SCIENCE RESOURCES COMMITTEE, G. CRAWLEY and L.L. RIEDINGER

The budget request for the coming fiscal year (FY94) was submitted by President Clinton to Congress in early April. One of the important themes throughout the federal budget is defense reinvestment and conversion, which affects a number of agencies including DOE and NSF. As some federal funds are shifted from defense to civilian programs, there is considerable emphasis on, for example, ways to transfer technology and manufacturing techniques from defense laboratories to the private sector.

In the Department of Energy, the FY94 request is for \$19.6B, up from \$19B in the current fiscal year. The shifting national emphasis is reflected in the requested drop in DOE funds for defense needs from \$7.2B this year to \$5.9B in FY94. The environmental restoration and waste management budget is due to increase by \$1B to \$6.5B, and energy-related activities from \$3.4 to 3.9B. Another "loser" in the request is nuclear energy R&D, proposed to drop by 45% to \$182M. Closer to home, the budget for the Office of Energy Research would increase by 8.8% to \$3.36B. Part of this budget is for the SSC, which is due to increase in construction funds from \$514.5 to 640M. This represents a reduction in pace of construction for the next five years, and thus a stretchout of

three years in time of completion and an increase in the bottom line cost of \$2B. The High Energy Physics budget is due to increase from \$595 to 628M, and includes \$25M for the Fermilab Main Injector (part of a \$257M item) and \$36M for first year construction funds for the B Factory (an electron-positron collider, to be competed for siting by SLAC and Cornell).

The DOE number for Nuclear Physics looks good on paper (an increase from \$300 to 322M), but is actually quite worrisome due to the call for abrupt closure of LAMPF and the loss of most of the associated funds. As explained in the last DNP newsletter, there was a complicated movement of LAMPF funds for the current year. The FY93 request for Nuclear Physics was \$363.4M, but this was reduced by \$54.4M as the LAMPF budget item was moved to Defense Programs within DOE. Another reduction of \$9M was applied to Nuclear Physics, as a part of the general reduction in the Energy Research budget. This brought the Nuclear Physics base (without LAMPF) down to \$300M. So, what looks like a \$22M increase for FY94 should really be viewed as a \$32M decrease from the actual FY93 budget for Nuclear Physics, and \$41M under the value before the last-minute general reduction late in the budget deliberation.

This large decrease in funding for DOE Nuclear Physics is felt in several places. LAMPF would be closed in the new fiscal year, with \$15M appropriated for the beginning of close-out activities (decommissioning and decontamination). RHIC construction would remain at \$70M (\$20M less than anticipated), leading to a 19-month delay in the construction schedule. Funding for research would drop by roughly 10%, resulting in the loss of support for maybe 100 scientists and 30 graduate students. This is a very difficult situation for the field, and the reason for this difficulty is

not clear. An analysis of the funding levels for 10 broad categories of activity with the Office of Energy Research shows that from FY92 to FY94 the only budget line decreasing is that for Nuclear Physics. This budget proposal seems to invalidate the plan recommended by the NSAC-commissioned Schiffer committee, where LAMPF would be gradually phased out and the funds released would be used for the rest of the field. The budget number for FY94 is about \$70M less than the base budget scenario for DOE Nuclear Physics considered in the Schiffer report and some \$40M less than the most pessimistic scenario discussed.

The requested FY94 budget for the National Science Foundation is \$3.18B, up 16% over FY93. Of this, the budget for Physics is slated for an 11% increase to \$142.6 million, with the proposed breakdown:

	FY93	FY94	% Inceas
Elementary Particles	40.5M	45.9	13
Nuclear Sciences	40.3	43.7	8
Atomic, Molecular, Optical	18.5	20.9	13
Theory	18.7	20.9	12
Gravitational	10.3	11.3	10
Physics Total	128.2	142.6	11

Of course, these FY93 NSF numbers are down by roughly 10% compared to FY92, which has resulted in major studies of how to accommodate this in Nuclear Physics. The hope has been that the Clinton Economic Stimulus package would help this FY93 problem. In mid-April the plan was that the NSF would receive \$207M this way, which would cure at least some of the FY93 problem. DOE Energy Research would also have received \$47M of the DOE \$148M allocation in the FY93 package (for technology transfer activities). But, at this writing, that Economic Stimulus proposal is dead in the Congress. The FY94 number for NSF Nuclear Science is about \$6M less than the base budget

scenario considered in the Schiffer report and roughly \$4M less than the worst-case scenario discussed there. This leads to real problems for NSF Nuclear Physics, with possible closures of some university accelerator laboratories. So, it is clear that our field is facing significant budget difficulties in both agencies.

The appropriations bills are now beginning to wind their way through the Congress, so it will be summer or fall before the final story is told. Hearings on DOE Energy Research programs were held in late April before the House Appropriations Subcommittee on Energy and Water. There were no questions on nuclear physics programs by subcommittee members. That subcommittee is expected to mark up an FY94 appropriations bill before Memorial Day. The Senate Appropriations Subcommittee on Energy and Water may have hearings on this topic in June but has not scheduled a mark-up of its bill.

13. NSAC REPORT, E. MONIZ (NSAC CHAIR)

Since the DNP meeting held in Santa Fe during October 1992, NSAC has met twice. The first meeting was held February 26-27, 1993 at the NSF. The principal business was response to an NSF charge asking for advice on how precipitous FY93 budget cuts might be absorbed at the major NSF-sponsored user facilities, the Indiana University Cyclotron Facility (IUCF) and the National Superconducting Cyclotron Laboratory (NSCL) at Michigan State University, with least damage to the highest priority science. Dr. William Harris, NSF Assistant Director for Mathematical and Physical Sciences, met with NSAC to discuss the Foundation's plans. The second meeting was held April 13, 1993 at the DOE. The principal business was a report on the FY94 Administration budget request for nuclear physics. The focus was on the DOE request, which would represent a

significant cut if implemented. Dr. William Happer, Director of the DOE Office of Energy Research (OER) addressed NSAC on this issue.

The FY93 NSF Physics Division budget was reduced from the FY93 level by approximately 7.5%. After accounting for various directed initiatives, the nuclear physics budget reduction is greater than 10%. Since the IUCF and NSCL together represent a large fraction of that budget, and since reduced programs at these facilities would affect a large number of both NSF- and DOE- supported users, NSAC was charged to provide advice under scenarios of 5% and 10% reductions in the total budget of both facilities. An NSAC Subcommittee composed of D. Hagerman (LANL), R. McGrath (Stony Brook), B. Miller (Duke; NSAC member), R. Redwine (MIT; Chairman), R. Tribble (Texas A&M; NSAC member), S. Wallace (Maryland) and G. Young (ORNL) was asked to evaluate the research and educational programs at the two facilities. The Subcommittee members expended a considerable effort in a rather short time and deserve the thanks of our entire community. Their findings were reported at the February NSAC meeting. In response, NSAC expressed strong support for the world-class physics programs at IUCF and NSCL and recommended:

1. "We concur with the Subcommittee conclusion that the precipitous FY93 cuts under discussion should be distributed, if implemented, roughly equally at IUCF and NSCL."

2. The FY93 incremental NSF funding in the Administration stimulus package should be used to eliminate "all or of most of the projected FY93 cuts." While Dr. Harris expressed a similar view, the stimulus package subsequently failed in the Senate. [Some elements may be revived in the House.]

3. Following the 1992 Schiffer NSAC Subcommittee conclusion, NSAC recommended that "if the operating base budgets are reduced significantly in spending power, the structure of the NSF user laboratories and indeed of the entire nuclear physics program will need to be re-examined."

4. Under any scenario, "the Foundation should commit to funding the S800 spectrograph at NSCL and the completion of HIPIOS at IUCF."

Discussion at the April meeting suggested that the first and fourth recommendations are indeed being implemented. In addition, it was reported that the sudden FY93 budget cut will **require that as many as four university laboratories will undergo transition to user activity**, an action which will substantially impact both research and education in nuclear physics. Relevant to the third recommendation is the Administration's FY94 request for a Physics Division budget about 3.5% above the FY92 level (in as-spent dollars).

The DOE FY93 base budget for nuclear physics is \$363M, **i.e., the administration request and the minimal amount on which NSAC was asked to provide FY94 advice.** However, because of issues peculiar to the FY93 budget process, \$54M of Los Alamos funding was placed in the Defense Programs budget for one year. The FY94 budget submission requests only \$322M for the program, effectively a \$41M reduction from the FY93 level, since the LAMPF funding does not appear in the Defense Program budget. This is particularly difficult to accept in light of the exemplary long-range planning process in nuclear physics, which yields a cost-effective program matching the highest priority science, and of the budget request for substantial resources to initiate major new OER projects within a constrained budget. If implemented, this budget

would have severe consequences for the field, particularly so for younger scientists:

1. Within the intermediate energy program, by far the most dramatic element is the end of operations at LAMPF; only \$15M of decommissioning funds are identified in the budget request. The Schiffer Subcommittee identified very high priority experiments, involving major human and resource investments, which would require FY94 and FY95 operation as part of an orderly phaseout of the LAMPF user program. Beyond this period, nuclear physicists may still have substantial opportunity at LANL within the Laboratory's overall plan for an orderly transition to a focus on neutron-scattering served by the LAMPF linac.

2. **The budget presents difficulties for timely** completion and exploitation of the highest priority construction projects in nuclear physics. RHIC would lose \$20M from the planned FY94 construction funding. This will substantially delay its completion and increase its cost.

3. In the electron scattering activity, CEBAF would be unable to pursue Hall B research on the desired schedule and the new capabilities at Bates would be available to the user community for only a relatively short running period.

In addition to these user facility impacts, the university community would suffer direct reductions under the budget request. The total resources needed to pursue long-range plan objectives that were outlined in the Schiffer Subcommittee report would exceed the base level of \$363M. However, while non-trivially restricting the program, restoration of the budget to that base level would allow core activities to proceed in a scientifically and fiscally responsible manner. Consultation among NSAC members, major laboratory directors, and DNP Executive Committee members has led to a consensus about the need to inform appropriate officials about

the consequences of this budget request. Clearly, we hope that they will recognize the importance of a continued and stable investment in nuclear physics and its concomitant educational function and technology development, even in these financially difficult times.

14. **DNP BROCHURE, G. M. Crawley**

The DNP Brochure is nearing completion. The purpose of the brochure is to explain the many interactions between nuclear physics and other scientific fields and the many applications and spin-offs of basic research in nuclear science. The working title is "Nuclear Physics: Science Serving Society". The brochure will be about 30 pages long and have 5 sections: Introduction; Interactions with Other Fields; Applications/Spin-offs; Education; New Frontiers of Nuclear Physics. All sections have been drafted but there is still controversy about the content and level of the last section on "science". The difficulty is the mixed audience for the brochure. We want the section to convey the excitement of the science we are undertaking but at a level comprehensible to the non expert. This is proving very elusive. Hopefully the brochure will be ready around the middle of June. I hope that many of you will use this brochure as a vehicle for interacting with your representatives in the House and Senate to garner support for funding of Nuclear Science.

15. **ISOTOPE UPDATE FROM THE NUCLEAR SCIENCE RESOURCES COMMITTEE, L.L. RIEDINGER, CO-CHAIR**

The intense scrutiny of the DOE Isotope Production and Distribution Program (IPDP) continues. The financial shortcomings of the isotope program have been highlighted in a series of recent studies (and discussed in the fall, 1992 DNP newsletter). This led DOE to hire a

consulting firm (Arthur Andersen and Company) to perform a study of what needs to be done to restore financial solvency. This report is now complete, and has been released to the seven national laboratories involved in this program. It discusses in detail the nature of the difficulties of a government-run program commissioned by law in 1990 to operate in a self-sufficient mode (after decades of operating with both sales revenues and a DOE appropriation). Major points made in the report include: (1) the government is really not set up under its current accounting rules to operate a business (e.g., charge the market price instead of cost recovery, cater to customers needs, guarantee supply and delivery, etc.); (2) a policy decision needs to be made about the research isotopes, which are not profitable, but are still necessary for government-sponsored research, and thus should be supported by an appropriation from the government; (3) there is a basic inconsistency between the Atomic Energy Act of 1954 (which says that isotopes should be produced and distributed more or less as a service to users) and the Public Law of 1990 (that set up a revolving fund and mandated operation in a full cost-recovery mode). One recommendation in the report is that the operation of the calutrons at Oak Ridge be terminated unless funds come from DOE to support the production of the isotopes necessary for its research enterprise.

The isotope program continues to have grave difficulties. The calutrons are still in temporary shutdown, so new stable material is not being produced. The high cost of leasing enriched stable isotopes for non-destructive experiments has resulted in most of that material being returned to the pool. One positive note, however, is the Oak Ridge laboratory for fabricating targets has been moved and is open for business on at least a limited scale (fewer technicians than earlier).

The Department of Energy is being re-organized by Secretary O'Leary, and it is likely that the responsibility for operating the IPDP will be moved out of the Office of Nuclear Energy to the new Science and Technology office. This would bring this program administratively closer to the research arm of the department.

The President's FY94 request for DOE includes \$6M to upgrade an accelerator at Brookhaven to produce radioactive isotopes.

16. INSTITUTE FOR NUCLEAR THEORY, WICK C. HAXTON

The programs for the INT through 1994 were announced in the last DNP newsletter. In addition to the programs, which generally last from three to four months, the INT also occasionally hosts shorter workshops. Three are planned in the near future:

"Perspectives in High Energy Strong Interaction Physics at High Energy Facilities" - August 4-11, 1993

This workshop is coorganized by the INT and Fermilab, and will be held at Fermilab. The program will cover a variety of topics such as unresolved problems in low energy physics, parton distributions in hadrons and nuclei (including spin and flavor), coherence phenomena in high energy and diffractive physics. Those interested in attending should contact Gerry Garvey at "garvey@lampf.bitnet".

"Relativity in Two-and Few-body Nuclear Systems" - Sept. 17-26, 1993

This workshop is coorganized by the INT and CEBAF, and will be held at CEBAF. As a number of people have already responded to early announcements, only a few openings remain. Anyone interested in participating should write to Mike Musolf "musolf@cebaf.bitnet" as soon as possible.

"Dark Matter" - Feb. 13-19, 1994

This workshop is being organized by LBL, the Berkeley Center for Particle Astrophysics, and the INT, and will be held at the LBL. It immediately precedes the spring program on "Solar Neutrinos and Neutrino Astrophysics." Among the topics to be discussed will be the nuclear physics of dark matter detectors. Those interested in attending should write Baha Balantekin at "baha@wiscpsl.bitnet".

17. 1994 SNOWMASS WORKSHOP

At its April meeting, the DNP Executive Committee voted to join the Division of Particles and Fields and the Division of Astrophysics in cosponsoring a workshop on Nonaccelerator Physics. The workshop's organizing committee is chaired by Roberto Peccei, UCLA. Tentative plans are to hold the workshop in Snowmass, Colorado, June 29-July 14, 1994. Further details will be provided in future DNP newsletters. The Division's Executive Committee welcomed this opportunity to work with our sister divisions to highlight opportunities for interdisciplinary physics.

18. CHART OF THE NUCLIDES - STRASBOURG 1992 (Edited by M. S. Antony, Docteur es Sciences)

This new chart will become available shortly, probably in May 1993. It contains basic data for the some 3000 known isotopes in their stable, isomeric or radioactive states. In addition to the principal decay characteristics, experimental or theoretical mass defects are indicated. Overall, the chart presents approximately 30000 pieces of information. Each isotope is described in a square 19 mm on a side. The dimensions of the chart will be 140 x 70 cm, printed on both front and back. It will appear in five colours corresponding to the decay modes and will be most complete and the cheapest of existing nuclear charts.

The literature cutoff date is **March 31, 1993**. The entire proceeds from sales at 40 FF (\$8 USA) will be given to the **French Association For The Fight Against Mucoviscidosis**.

The mode of payment (chart plus postal charges) will be indicated in a letter accompanying the chart. For your orders please contact:

**M. S. Antony, Centre de Recherches Nucleaires
BP 20 CRO 67037 Strasbourg Cedex 2/FRANCE
fax: 88 28 62 92 email :
"antony@frcpn11.bitnet"**

19. 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.

1993 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. Volume 42 (available Dec. 1992) will be \$59/\$64 retail and \$42/\$45 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.*

20. FUTURE CONFERENCES

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

"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.nsl.msu.edu"* or bitnet: *"morrissey@msunscl"*].

"8th Annual Hampton University Graduate Studies-HUGS AT CEBAF" to be held May 26-June 12, 1993, at the Continuous Electron Beam Accelerator Facility, Hampton University, Hampton, Virginia. [For further information contact: Dr. Michael Frank, Chair, Local Organizing Committee, Dept. of Physics, Hampton Univ., Hampton, Virginia 23668, phone: (804) 249-7369 or 727-5938, bitnet: *"frank@CEBAF.gov"*].

"Gordon Research Conference on Nuclear Chemistry" to be held July 5-9 1993, at Colby-Sawyer College, New London, New Hampshire. [For further information contact R.V.F. Janssens, Physics, Div., Argonne National

Laboratory, Argonne, IL 60439, phone: (708) 252-3663, fax: (708) 252-6210, bitnet: *"janssens@anlphy"*].

"6th Annual Summer School in Nuclear Physics Research" to be held 11-24 July 1993, at Raleigh, North Carolina, USA, B. Müller and R. Roberson, Organizers. [For further information contact Philip J. Siemens, OSU Physics Department, 301 Weniger Hall, Corvallis, OR 97331-6507, phone (503) 737-1697, fax - 1683, e-mail: *"siemens@physics.orst.edu"*].

"Gordon Research Conference on QCD in Nuclear Physics" to be held July 26-30, 1993, at the Tilton School, Tilton, New Hampshire. [For further information contact R. D. McKeown, 106-38 Kellogg, Caltech, Pasadena, CA 91125, phone: (818) 356-4316, fax: (818) 564-8708, bitnet: *"bmck@caltech."*].

"The Gordon Conference on Dynamics of Simple Systems in Chemistry and Physics" to be held August 16-20, 1993 at Proctor Academy in Andover, New Hampshire. This interdisciplinary meeting is of interest to few-nucleon and few-electron physicists, quantum chemists, and others interested in systems with relatively few dynamical degrees of freedom. [For further information contact: J. L. Friar, Los Alamos National Lab., Chairman. e-mail: *"friar@lampf.bitnet"*, R. S. Berry, Univ. of Chicago, V-Chairman, e-mail: *"berry@rainbow.uchicago.edu"* or the Gordon Research Conferences Secretariat].

"Gull Lake Nuclear Physics Conference on Giant Resonances" to be held 17-21 August 1993, in Gull Lake, Michigan. [For further information contact: Michael Thoennessen, National Superconducting Cyclotron Lab., Michigan State Univ., East Lansing, MI 48824, phone: (517) 355-7549, fax: (517) 353-5967, internet:

"thoennesen@cycvax.nsl.msu.edu" or
bitnet: "thoennesen@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."].

**"The Fifth Conference on the
Intersections of Particle and Nuclear
Physics"** to be held May 31 to June 6,
1994 at the Stouffer Vinoy Resort, St.
Petersburg, FL. The Conference will
focus on the common areas of interest of
current Particle and Nuclear Physics
including Theory and Experiment,
Facilities and Technology, and will
emphasize the Physics in the Energy
Region of 1 to 200 GeV. [For further
information contact Elly Driessen, Conf.
Secretary, TRIUMF, 4004 Westbrook
Mall, Vancouver, B.C., V6T 2A3, Canada,
phone: (604) 222-1047, fax: (604) 222-1074,
telex: (0)-4508503, bitnet:
"driessen@triumfcl", internet:
"driessen@reg.triumf.ca", decnet:
"45397::driessen"].

21. DNP SURVEY ON THE PUBLICATION OF RECENT REFERENCES

The Nuclear Structure References (NSR)
file, which contains bibliographic
information on low and intermediate
energy nuclear physics is maintained by
the National Nuclear Data Center
(NNDC) at Brookhaven. New additions
to the file are scheduled to appear as
"Recent References" once a year in the
Nuclear Data Sheets. In view of the
availability of the file from the NNDC
online retrieval system as well as from
the NEA Data Bank, Paris and the IAEA
Nuclear Data Section, Vienna, we wish
to survey the DNP membership as to

whether there is continuing need for the
yearly publication of the "Recent
References".

Please fill in the blanks, xerox or cut, and
mail or FAX to the address given below
or send an e-mail message by **June 30,
1993**. Thank you.

Name: _____ (optional
)

Institution: _____

"Recent References" Publication:
Yes ___ No ___

Please mail to: The NNDC
Building 197D
Brookhaven National Lab.
UPTON, NY, 11973
FAX: (516)282-2806
Internet: "nndc@bnl.gov"



DON'T
FORGET TO
VOTE!!

Three Ballots for:

- DNP Officers and Executive Committee.
- Second DNP Division Councilor.

- Adoption of the New DNP Bylaws.