

**Division of Nuclear Physics** 

# The American Physical Society

# Newsletter No. 144 August 2005

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

# ACCOMPANYING THIS NEWSLETTER:

- April 2006 Invited Speaker Nomination Form
- DPB membership appeal (see last page)



# Future Deadlines

- 10 August 2005 HAW05 Early Registration Deadline
- 10 August 2005 HAW05 Hotel Reservation Deadline
- 15 September 2005 APR06 Speaker Nominations

The home page for the Division of Nuclear Physics is available at "<u>http://dnp.aps.org</u>." Information of interest to DNP members -current research topics, deadlines for meetings, prize nominations, forms, and useful links are provided. Each DNP Newsletter is posted, in advance of the copy sent via post. Comments and suggestions are solicited. Please send them to Thomas Glasmacher at "dnpweb@nscl.msu.edu"

# 1. DNP COMMITTEES

#### Executive Committee

Bradley M. Sherrill, MSU, Chair (2005)
Susan J. Seestrom, LANL, Chair Elect (2005)
Richard G. Milner, MIT, Vice Chair (2005)
Donald F. Geesaman, ANL, Past Chair (2004)
Benjamin F. Gibson, LANL, Sec.-Treas. (2005)
Bunny C. Clark, Ohio State Univ. Divisional Councilor (December 2005)
Ani Aprahamian, Notre Dame (2006)
Anna C. Hayes, LANL. (2006)
Kevin T. Lesko, LBNL (2005)
David Hertzog, Univ. Illinois (2006)
Alice Mignerey, Univ. of Maryland (2005)
William A. Zajc, Columbia Univ. (2005)

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S. J. Freedman, LBL & Univ. Calif. Berkeley
G. M. Fuller, Univ. Calif. San Diego
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T. Hallman, ANL
C. Keppel, TJNAF
E. J. Korkmaz, Univ. N. British Columbia

#### E. Ormand, LLNL

- M. A. Riley, Florida State Univ.
- T. Schaefer, North Carolina State Univ.
- S. Yennello, Texas A&M Univ.

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#### 2006 Tom Bonner prize Committee

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G. Sprouse (12/05)
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#### 2006 DNP Dissertation Award Committee

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T. D. Cohen (12/05)
B. V. Jacak (12/06)

# 2006 Fellowship Committee

D. F. Geesaman, Chair C. R. Gould M. J. Ramsey-Musolf E. J. Beise J-C. Peng

# 2005 Nominating Committee

S. J. Yennello, Chair J. H. Thomas K. deJager A. Hime R. J. Furnstahl

# INSIDE ...

- Special Election
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# 2005 National Nuclear Physics Summer

School Steering Committee K. S. Kumar, Chair (7/08) R. Seto (7/06) B. van Kolck (7/06) J. Beacom, Past Chair (7/07) A. Opper (7/07) D. J. Dean, Vice Chair (7/08) J. L. Matthews (7/09) Ch. Elster (7/09) B. Barrett (grantee)

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#### 2005 APS Nominations Committee

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#### 2005 Publications Committee

A. Mignerey, Chair R. G. Milner D. Hertzog

#### 2005 Service Award Committee

B.M. Sherrill, Chair S.J. Seestrom R. G. Milner D.F. Geesaman B.F. Gibson

#### 2. ACKNOWLEDGE YOUR SPONSORING AGENCY

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

# 3. SPECIAL ELECTION

Bunny Clark has served the DNP for almost four years as Divisional Councilor, representing faithfully the DNP's interest before the APS Council. The DNP thanks Bunny for her service. Her term expires at the end of December 2005. A special election is called for, so that the new Divisional Councilor will have an opportunity to attend the last APS Council meeting of 2005 along with Bunny.

The DNP Nominating Committee will shortly have a slate of candidates approved by the DNP Executive Committee. A special DNP mailing will be sent out in August with the ballot and a return envelope.

In addition, the special mailing will include on the ballot a By-Laws amendment item. A number of minor modifications are proposed which will bring the By-Laws into compliance with practice, add new standing committees, and permit the DNP to hold electronic balloting. The proposed By-Laws amendments have been in the making for some time. They have been approved by APS Council. They await your vote.

Some DNP members complain at each election that they have misplaced their ballots. Now is the time to vote for the last time by paper ballot, so that electronic elections can be held. We will use the same system as the APS, if the By-Laws amendment is approved. Notices will be sent by email that an election is open. Those members whose email addresses are not functioning, so that the message bounces, will receive paper ballots by post. Keep your eyes open for the special election mailing in August! Vote in the By-Laws amendment election and for the new Divisional Councilor.

#### 4. FUTURE DNP FALL MEETINGS

2006	Oct. 24 – 28	Nashville, TN

The dates include the Wednesday "workshops," which are normally held in conjunction with the DNP Fall Meetings. Holding "workshops" at the DNP Fall Meetings is a tradition that began with the 1986 Vancouver meeting. The 2005 Maui meeting is an exception — Sunday workshops as part of a five-day 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 other than their own.

#### 5. FUTURE APS SPRING MEETING INFORMATION

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

The 2006 APS Spring Meeting will move to Dallas, TX. Any comments/suggestions should be sent to APS Meetings Manager, Donna Baudrau (baudrau@aps.org).

# 6. 2005 JOINT MEETING ON MAUI WITH THE JAPANESE, S.J. Freedman

The Second Joint Meeting of the Nuclear Physicists of the American Physical Society and the Physical Society of Japan will be held 18-22 September 2005, at the Ritz-Carlton Hotel in the Kapalua Resort on the island of Maui.

The Fall Meeting will reprise the highly successful first joint meeting of the Division of Nuclear Physics (DNP) of the American Physical Society (APS) and the nuclear physicists of the Japanese Physical Society (JPS). That historic bilateral meeting was a resounding success, drawing more than 800 participants from Japan and North America. This year's meeting will be held at the Ritz-Carlton Hotel in the Kapalua Resort on the island of Hawaii on the dates of 18-22 September 2005. It is again our hope that Hawaii 2005 (HAW05) will serve as a meeting ground to foster cooperation, collaboration, and the exchange of ideas among nuclear scientists from Japan, the U.S. and other Pacific Rim countries. Moreover, it will provide an unusual opportunity for students from Japan and the U.S. to meet, interact, and discuss their visions of careers in nuclear physics. Finally, it is our hope that Hawaii 2005 will be every bit as successful during this World Year of Physics 2005 as was Hawaii 2001.

#### **Important Dates**

The Early Registration deadline is 10 August 2005 For hotel reservations and meeting registration, please use the meeting web site, "http://meetings.nscl.msu.edu/haw05/".

http://meetings.nsci.m

#### Hotel

All conference functions and sessions will be held at the Ritz-Carlton Hotel, located in the Kapalua Resort community on the sparkling Pacific shores of Maui's northwest coast, 12 miles north of the picturesque town of Lahaina. The elegant Ritz-Carlton Hotel sits on 50+ acres of a former pineapple plantation now forested with Cook Island pine trees and surrounded by ocean, golf courses, and luxury condominiums. The hotel offers multi-lingual guest relations staff, 5 restaurants, a multiple pool system, Hawaiian cultural programs, etc. A room block of 450 rooms has been reserved. The Kapalua resort is located about an hour drive from the Maui airport in Kahului along the Honoapiilani Highway #30. Those flying through Honolulu can take advantage of commuter flights to the West Maui Airport, which is serviced by the complimentary Kapalua Shuttle (phone 669-3177) that runs throughout the resort and to the Ritz-Carlton Hotel.

#### Kapalua, Maui, Hawaii

The name Kapalua means "twin arms embracing the sea", referring to the famous Kapalua Bay. Kapalua is more than a beautiful location. The famous symbols, the butterfly logo and the stately Cook Island pines, are a unique part of the heritage. Within the butterfly logo is a pineapple, referring to the agricultural roots, a working pineapple plantation which even today supplies pineapples locally and to the mainland. The Cook Island pines which line the roads remind one of the distinct nature of this part of Maui. Kapalua is set amidst a 23,000 acre pineapple plantation, surrounded by natural sanctuaries, rain forests, and some of the most splendid beaches in the world.

#### **Meeting Structure**

HAW05 will be a five-day meeting. Workshops will be held on 18 September, preceding the plenary session and traditional scientific sessions scheduled for 19-22 September. The Workshops will be followed by a Nishina Foundation Commemorative session, a welcome reception in the Ritz-Carlton Pavilion, and a Bethe Memorial session. The plenary session on Monday afternoon will open the main meeting and will highlight the nuclear physics of Japan and the U.S. Scientific sessions will be held during the afternoon and evening on Monday and Tuesday. On Wednesday there will be morning sessions followed in the afternoon by Town Meetings and a poster session, capped off in the evening by an Aloha Ho'olaule'a in lieu of a banquet. On the last day of the meeting sessions are scheduled for the morning and afternoon to benefit those with a late Thursday evening or early Friday morning flight.

As was the case for Hawaii 2001, a typical scientific session will see a single invited paper session running in parallel with multiple minisymposia and contributed paper sessions. Mini-symposia involve one lead (invited) talk followed by contributed papers all on the same topic. The mini-symposia are viewed as ideal sessions to integrate the JPS and DNP communities around topics of mutual interest. All talk slots are multiples of 15 minutes: contributed papers will consist of a 12 minute talk plus 3 minutes for questions and discussion; lead talks in mini-symposia will be 25 minutes plus 5 minutes for questions and discussion; talks in invited sessions will be 35 minutes plus 10 minutes for questions and discussion. All presenters are urged to speak slowly and clearly and to include important points in the images projected on the screen.

#### **Plenary Session**

The formal meeting activities begin with a plenary session on Monday afternoon September 19. Distinguished speakers for the US and Japan will share their vision for important nuclear physics in the present and the future. The Plenary speakers are Michael Turner, Tohru Motobayashi, Hisashi Horiuch and Donald Geesaman. The plenary session will be in the Ritz-Carlton Ballroom.

#### **Special Sessions**

#### **Sunday Evening**

#### Nishina Foundation Commemorative Session

A special session commemorating the Nishina Foundation contributions to the field of nuclear physics will feature a talk by Toshimitsu Yamazaki on Yoshio Nishina and the dawn of nuclear and particle physics in Japan. This will follow the workshops, on Sunday evening, and be held in the Ritz-Carlton Ballroom.

#### Celebration of Bethe's Life

A memorial session in celebration of the life of one of the 20th century's greatest nuclear physicists, Hans Bethe, begins following the welcome reception. The session is chaired by John Schiffer, who will make some extended remarks on Bethe's contributions to the early theory of nuclear physics. Gerry Brown and Katsuhiko Sato will recall their collaborative experience with Bethe.

### **Tuesday Morning**

#### JPS Award Session

A JPS award session to honor distinguished young research scientists will be held in the Plantation Ballroom from 10:30 until 12:00. Talks will be given by Tatsuya Chujo, Vanderbilt University, by Nobuaki Imai, Institute of Particle and Nuclear Study, KEK, and by Ken Suzuki, Technische Universitaet, Muenchen. The session will be chaired by Hideyuki Sakai, University of Tokyo.

#### Wednesday Afternoon

#### **CEU** Poster Session

A CEU student poster session has been organized by Warren Rogers starting at 13:00 on Wednesday as part of the Conference Experience for Undergraduates.

#### General Poster Session

Posters other than by CEU presenters will be organized into a poster session parallel to the CEU function starting at 13:00 on Wednesday afternoon.

#### **DNP** Town Meeting

A DNP Town Meeting will be held in Salon 3 and 4 of the Ritz-Carlton Ballroom, 15:00-17:00.

#### JPS Nuclear Physics Forum Meeting (Kakudan Soukai)

A JPS Nuclear Physics Forum Meeting (Kakudan Soukai) of Japanese experimentalists will be held in Plantation rooms 1 and 2, 15:00-17:00.

#### Registration

Registration will take place in the Ritz-Carlton lobby level prefunction space -- to the right of the main entry into the hotel and just outside Salon 1 and Salon 2. Registration will begin on Saturday morning. The registration desk will be open during most of the meeting for registration, information, and other assistance. Both Japanese and English language staff will be available to assist with the registration desk functions. After the early registration deadline of 10 August, the late registration fee is \$250 for members, \$125 for students/unemployed, and \$450 for non members. On-site registration fees are \$300, \$150, and \$500, respectively.

#### On-site registration hours will be

Saturday	8:00 to 17:00
Sunday	8:00 to 21:00
Monday	9:00 to 20:00
Tuesday	12:00 to 20:00
Wednesday	8:00 to 17:00
Thursday	8:00 to 15:00

#### **Conference Experience For Undergraduates (CEU)**

Warren Rogers has organized a program specific to the nuclear physics undergraduates participating in Hawaii 2005. The goal of the CEU is to provide a "capstone" conference experience for undergraduate students who have conducted research in nuclear physics, by providing them the opportunity to present their research to the larger professional community and to one another. Additionally, it enables the students to converse with faculty and senior scientists from graduate institutions about graduate school opportunities.

Special CEU nuclear physics seminars will be presented at 13:15 on Monday and Tuesday, just prior to the afternoon sessions. A CEU student poster session will be held 13:00-15:00 on Wednesday

CEU 2005 thanks the following organizations for support: the Division of Nuclear Physics of the American Physical Society, the Physical Society of Japan, the National Science Foundation, the Department of Energy through the following Laboratories, Argonne National Lab, Brookhaven National Lab, Lawrence Berkeley National Laboratory, Lawrence Livermore National Laboratory, Los Alamos National Laboratory, Oak Ridge National Laboratory, and Thomas Jefferson National Accelerator Facility.

#### **Special Functions**

#### Saturday Morning/Afternoon

#### Hawaii 2005 World Year of Physics Celebration

As part of the worldwide celebration of the World Year of Physics (WYP05) two public events will be held in Kahului on the day before the Workshops, organized by the DNP Education Committee. Peggy McMahan is leading these events.

A Physics Fun Day Open House will be held at the Queen Ka'ahumahu Shopping Center in Kahului from 11:00 - 15:30. The DNP Education Committee has encouraged university departments and national laboratories to pln a presence and sponsor an activity directed towards any grade level from elementary school to adults.

A Physics Olympics, a contest for teams from high school physics classes throughout the Island of Maui, is scheduled from 10:00 - 15:30 on the lawn of the Maui Community College, across the street from the shopping center.

#### Saturday Afternoon

#### Public Lecture

Laurence Krauss, Professor of Astronomy at Case Western reserve University, will give a public lecture on Einstein, as part of the World Year of Physics 2005 celebration, at 16:00 at the Maui Community College in Kahului.

#### **Sunday Evening**

#### Welcome Reception

Immediately following the Nishina Foundation Commemorative session there will be a welcome reception in the hotel Pavilion. The Pavilion is a covered, outdoor banquet area located to the left of the entrance into the Ritz-Carlton Hotel lobby. Light refreshments will be served beginning about 19:00. The reception will close about 20:15, in order to give people time to move to the Bethe Celebration at 20:30.

#### **Monday Morning**

# DNP/JPS Brunch and Program on the Status of Women and Minorities in Physics

A joint DNP/JPS program and brunch focused upon the status of women and minorities in physics will be held 10:00 - 11:30 in Plantation room #1 All are welcome, but because of seating limitations, those interested in attending should obtain a ticket at the meeting registration desk.

The following organizations are thanked for their generous support of this program: The American Physical Society and the Physical Society of Japan, Argonne National Laboratory, Brookhaven National Laboratory, Lawrence Berkeley National Laboratory, Los Alamos National Laboratory, the Southeastern Universities Research Association, and Women Encouraging Competitive Advancement in Nuclear Science.

#### **Monday Afternoon**

#### Companions Get-Together

A Companions Get-Together with refreshments will be held at 14:00 on Monday, in parallel with the Plenary Session.

#### **Tuesday Morning**

#### User Group Meetings

Time for User Group meetings has been set aside on Tuesday morning in the lower level of the Ritz-Carlton Hotel function space.

Double-Beta Decay and Neutrino Mass Collaboration Meeting The Double-Beta Decay and Neutrino Mass Collaboration meeting will be 9:00-10:30 in Plantation room #3

#### **Tuesday Afternoon**

#### CEU Undergraduate Reception

An undergraduate reception, organized by the Conference Experience for Undergraduates director Warren Rogers, will be held at 18:00 in the Hawaiian Medicinal Garden.

#### Graduate Student Reception

A graduate student reception for all graduate students, hosted by the DNP and JPS, will be held at 18:00 in the Plantation Ballroom Foyer.

#### Wednesday Afternoon

#### JPS Hadron Physics Society Meeting

The Hadron Physics Society meeting will be 12:45-14:00 in Plantation room #1.

#### Physical Review C and Physical Review Letters Drop-In

The Editors of Physical Review C and Physical Review Letters cordially invite HAW05 participants to join them for conversation and refreshments in the area of the poster sessions on Wednesday afternoon from13:00-15:00. Your questions, suggestions, compliments, and complaints regarding journal issues are welcome.

#### Wednesday Evening

#### Aloha Ho'olaule'a

In lieu of a banquet or Luau (as was held at Hawaii 2001), there will be an aloha ho'olaule'a on Wednesday evening at 19:00 near the beach (behind the Beach House Restaurant). The price of the ticket includes food stations, entertainment, etc., much like the Welcome Reception at Hawaii 2001.

# **Thursday Afternoon**

#### RARF/RIBF Users Meeting

A RARF/RIBF Users meeting will be held from 17:30-18:30 in Plantation room #3

#### **Program Description**

#### Workshops

The meeting will open with eight workshops on Sunday, 18 September. Sessions are scheduled in the morning and afternoon. The organizers of the parallel workshop sessions are:

WA. Nuclear/Hadron Physics at the Jefferson Laboratory and J-PARC E. Hungerford, O. Hashimoto, J.-C. Peng, and K. Tanaka

WB. Strongly interacting matter probed at RHIC

T. Sugitate and J. Thomas

WC. Spin structurce studies at RHIC

- N. Saito and J. Thomas
- WD. Beyond qq-bar and qqq systems: Pentaquarks and more T. Nakano and W. Lorenzon

WE. Nuclear states under extreme conditions of

binding and isospin asymmetry T. Motobayashi and R. Casten

- WF. Double beta-decay and neutrino masses
- T. Kishimoto and K. Lesko

WG. Neutrino Astrophysics T. Kajino and B. Balantekin WH. Neutron-rich nuclei in nuclear astrophysics

H. Sagawa and J. Piekarewicz

#### Invited Sessions

The six invited sessions were organized by members of the Program Committee: BA. Recent Progress in Nuclear AstroPhysics S. Kubono and G. Fuller CA. New results for exotic nuclei in the sd-pfg region T. Otsuka and E. Ormand DA. Nucleon Baryon Interactions T. Kishimoto and R. Milner EA. Applications of Nuclear Physics K. Imai and S. Seestrom JA. Exploration of a New State Dense Matter

- Y. Miake and V. Greene KA. QCD Beyond Three Quarks
  - M. Oka and C. Keppel

#### Mini-Symposia

The 16 mini-symposia were organized by a number of DNP and JPS members:

- 14a. Low Energy Tests of the Standard Model and Searches for New Physics
  - E. Korkmaz and T. Kishimoto
- 14b. Nucear Astrophysics G. Fuller, C. Brune, and S. Kubono
- 14c. Chiral & Color Condensates in Hadronic Systems
- A. Ohnishi, S. Hirenzaki, T. Hatsuda, V. Koch 14d. Pair and Cluster correlations in nuclei
- T. Otsuka and E. Ormand 14e. Structure Changes of Asyymetric Nuclear Systems
- T. Otsuka, T. Glasmacher, T. Motobayashi, and H. Sakurai
- 14f. Nuclear MomentsK. Asahi, P. Mantica, and N. Stone14g. New Aspects of Nuclear Forces -- three
- nucleon force and few-nucleon systems T. Otsuka, E. Ormand, W. Tornow, and H. Sakai
- 14h. Gamma Ray Detectors M. Riley and S. Kubono
- 14i. RHI Jet Quenching
  - V. Greene, Y. Miake, and T. Hallman
- 14j. RHI Recombination M. Asakawa, V. Greene, Y. Miake, and T. Hallman
  14k. RHI s-QGP M. Asakawa, V. Greene, Y. Miake, and T. Hallman
- M. Asakawa, V. Greene, Y. Miake, and T. Haliman 141. Pentaquarks
- M. Oka and W. Lorenzon

14m. Hypernuclei

- J. Millener and T. Kishimoto
- 14n. Orbtal Motion of Quarks in Hard Scattering Processes M. Oka, T. Shibata, Y. Koike, and V. Burkert,
- 14o. Neutrino Mixing and CP Violation: Reactors, Accelerators and Supernovae H. Gao and M. Oka
- 14p. Compton Scattering from Nucleons and Nuclei H. Gao, M. Oka, and H. Weller

#### **Program Committee**

Koichiro Asahi, TIT Masayuki Asakawa, Osaka U Carl R. Brune, Ohio U George M. Fuller, UCSD Stuart J. Freedman, UCB & LBNL<sup>2</sup> Haivan Gao, Duke U Donald F. Geesaman, ANL Benjamin F. Gibson, LANL S. Victoria Greene, Vanderbilt U Tim Hallman, BNL Kenichi Imai, Kyoto<sup>2</sup> Tadafumi Kishimoto, Osaka U<sup>3</sup> Shigeru Kubono, CNS, U Tokyo Elie Jean Korkmaz, UNBC Cynthia Keppel, TJNAF Yasuo Miake, U Tsukuba Richard G. Milner, MIT Makoto Oka, TIT Erich Ormand, LLNL Akira Ohnishi, Hokkaido U Takaharu Otsuka, U Tokyo Mark A. Rilev, FSU Thomas Schaefer, NCSU Susan J. Seestrom, LANL<sup>1</sup>

Bradley M. Sherrill, MSU<sup>3</sup> Sherry Yennello, TAMU

<sup>1</sup>Chair <sup>2</sup>Org. Comm. Co-Chair <sup>3</sup>Workshop Coordinator

#### International Advisory Committee

Akito Arima, JSF John N. Bahcall, IAS Virginia R. Brown, MIT & U Md Richard F. Casten, Yale Judy R. Franz, APS Herman Grunder, ANL Hiromichi Kamitsubo, RIKEN Thomas B.W. Kirk, BNL Shoji Nagamiya, J-PARC Katsuhiko Sato, U Tokyo A. Shotter, TRIUMF Anthony W. Thomas, JLab Hiroshi Toki, RCNP, Osaka U Yoji Totsuka, KEK Toshimitsu Yamazaki, U Tokyo Koichi Yazaki, Tokyo WCU

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Masayuki Asakawa, Osaka U \*Stuart J. Freedman, LBNL & UCB Benjamin F. Gibson, LANL Timothy J. Hallman, BNL \*Kenichi Imai, Kyoto U Tadafumi Kishimto, Osaka U Shigeru Kubono, CNS, U Tokyo Bradley M. Sherrill, MSU Takaharu Otsuka, U Tokyo Jean-Michel Poutissou, TRIUMF \* Co-chair

#### **Conference** Coordinator

Complete Conference Coordinators, Inc. 1300 Iroquois Ave., Suite 160 Naperville, IL 60563 Phone: 630-637-8100 Fax: 630-416-3333 info@cccmeetings.com www.cccmeetings.com

#### 7. APS TABLE OF CONTENTS ALERT SERVICE, Barbara Hicks, Associate Publisher, APS

The American Physical Society (APS) offers a free table of contents (TOC) notification service for each Journal published by APS: Physical Review, Physical Review Letters, and Reviews of Modern Physics to all APS members, subscribers, and non-subscribers. The TOC notification service provides users of the APS journals with email alerts of recently published issues.

Researchers can sign up for free Email Alerts, with table of contents listing for each new journal issue. Alerts are sent immediately to the user's email after the complete issue is published online. Users may choose between ASCII and HTML formats for the alerts. Alerts in ASCII format contain the URL for the journal issue and a list of all articles in the issue. HTML alerts are fully hyperlinked to abstracts and full-text for each article. Journal subscribers will be able to seamlessly link to and access full-text content from the HTML TOCs and non-subscribers may purchase full-text articles using online ordering services.

Signing up is easy and secure - just go to the Email Alerts Center at the APS Journal Homepage:

http://publish.aps.org/

and from the individual journal homepages, enter your name and email address, and select which format you want to receive your alerts (either HTML or ASCII format).

This service is a useful research tool, which will keep you up-to-date with the latest scientific breakthroughs and discoveries.

Any questions, please contact: Barbara Hicks, Associate Publisher, Email: assocpub@aps.org

#### 8. SESSION CHAIRS FOR THE DALLAS, TX APS SPRING MEETING

The APS/DNP Spring Meeting will be in Dallas, TX. Those who anticipate attending and are willing to chair a session should please send an email message to Sue Seestrom (DNP Program Chair) indicating: 1) willingness to serve as a session chair and 2) areas of expertise which might be of interest. The information is needed by 1 January. One may also nominate younger colleagues who will attend the meeting.

#### 9. BOY SCOUT NUCLEAR SCIENCE MERIT BADGE, Howard Matis

The Boy Scouts of America have just released a new merit badge on "Nuclear Science". A description of the badge's requirements, which are a significant revision of those for the old Atomic Energy merit badge, can be found at http://www.boyscouttrail.com/boy-scouts/ meritbadges/NuclearScience.asp.

The DNP Education Committee contacted the Boy Scouts during the revision stage and was able to suggest several meaningful changes in the requirements and in the accompanying merit badge pamphlet.

The procedure to earn the new merit badge is a vast improvement over the old one, with requirements that relate to many of the activities in which we are involved. The pamphlet itself provides an excellent introduction to our field for middle school students. Since one of the requirements can be met by visiting an accelerator or university where scientists study properties of the nucleus, this badge provides a perfect opportunity for outreach by a university or national laboratory group.

# 10. NUCLEAR WALLET CARDS, Jagdish K. Tuli

The revised (April 2005) edition of Nuclear Wallet Cards from the National Nuclear Data Center (NNDC), Brookhaven National Laboratory, is enclosed. The booklet contains selected properties of all known nuclides and their isomers. It also contains some useful appendices. The center spread of the booklet displays the NNDC home page, on the web, which offers links to many useful databases, publications, and tools. NNDC serves the pure and applied nuclear physics community with bibliographic as well as numeric data. It also serves as a repository for your preprints and supporting data for published articles. For additional copies of the booklet or for your data needs please contact nndc@bnl.gov.

#### 11. DIVISION OF PHYSICS OF BEAMS SOLICITING MEMBERS

The Division of Physics of Beams is soliciting members. Please see the letter from Chair Gerald Dugan, on the last page of this newsletter.

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

**Ordering Procedure:** Orders should be sent directly to: Annual Reviews, Attn: Clarette Tupper, Customer Service, 4139 El Camino Way, P. O. Box 10139, Palo Alto, CA 94303-0139 (e-mail: ctupper@annualreviews.org). DNP membership will be verified through the DNP prior to shipment of orders.

**2005 Prices:** The dual prices (separated by a slash) listed below correspond to USA/other countries including Canada. Volumes 47 - 50 are 70/75 retail and 49/52.50 for DNP members. Volume 51 is 75/80 retail and 52.50/56.00 for DNP members, Volume 52 is 77/82 retail and 53.90/57.40 for DNP members. Volume 53 is 80/85 retail and 56/59.50 for DNP members. Volume 54 is 84/89 retail and 58/62.30 for DNP members.

Other Annual Reviews series publications are also available. A complete listing of topics and authors for the current volumes and back volumes of Annual Reviews publications may be viewed on the Annual Reviews Web Site at http://www.AnnualReviews.org. The Web Site also features a fully searchable abstracts data base for all Annual Reviews publications, which allows visitors to search by author name or key words.

# 13. FUTURE CONFERENCES

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

"Applied Modeling and Computations In Nuclear Science (at the American Chemical Society National Meeting)" 28 August - 1 September 2005, Washington DC, 2005WashingtonComputationSymposium.pdf Contact: Thomas Semkow New York State Dept. of Health & SUNY FAX: 518-474-8590 email: tms15@health.state.ny.us URL: http://www.cofc.edu/~nuclear/

# "18th International IUPAP Conference On Few-Body Problems In

Physics [Few-Body 18 (FB18)]" 21-26 August 2006

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

## "12th International Conference on Capture Gamma-Ray Spectroscopy & Related Topics"

Sept. 4-9, 2005, University of Notre Dame, Notre Dame, IN Contact: Prof. Ani Aprahamian, Fax: 574 631-5952 Tel: 574 631-8120, Email: cgs12@nd.edu URL: http://www.nd.edu/~nsl/cgs12.

#### "PANIC05, Particles and Nuclei International

**Conference**" 24-28 October 2005, Santa Fe, NM Co-Chairs: M. Cooper and P.D. Barnes Email: panic05@lanl.gov URL: http://www.panic05.lanl.gov

# "2005 IEEE Nuclear Science Symposium and

Medical Imaging Conference", 23-29 October 2005 Puerto Rico, Wyndham El Conquistador Hotel Contact: Tom K. Lewellen, General Chair E-mail: nss2005@u.washington.edu Phone: +1-206-598-6249 Fax: +1-206-598-4192 URL: http://www.nss-mic.org/2005

# **"International Conference on Nucleus-Nucleus Collisions (NN2006),"** 2006, San Paulo-Brazil Chair: Mahir S. Hussein, Univ. Sao Paulo

E-mail: Hussein@fma51.if.usp.br.

# **BRADLEY M. SHERRILL**

Chair NSCL Michigan State Univ. East Lansing, MI 48824 Phone: (517) 333-6322 Fax: (517) 353-5967 sherrill@nscl.msu.edu

#### SUSAN J. SEESTROM Vice-Elect

Assoc. Dir. Weapons Physics Acting, P.O. Box 1663, MS A106 Los Alamos National Lab. Los Alamos, NM 87545 Phone: (505) 665-4454 Fax: (505) 665-1293 seestrom@lanl.gov RICHARD G. MILNER Vice-Chair 26-411 Dept. of Physics MIT 77 Massachusetts Ave. Cambridge, MA Phone: (617) 258-5439 Fax: (617) 258-9599 milner@mitlns.mit.edu

# **BENJAMIN F. GIBSON**

Secretary-Treasurer DNP, MS B283 Los Alamos National Lab. Los Alamos, NM 87545 Phone: (505) 667-5059 Fax: (505) 667-1931 dnp@dnp.lanl.gov August 2005

Dear DNP Member,

The Division of Physics of Beams has launched a membership drive and is offering a free 1-year membership to all DNP members who are not already members of DPB. DPB has asked for and received permission from the DNP Executive Committee to recruit from the DNP membership.

DPB will pay the \$7 membership dues for the first year. At recent APS meetings our two divisions have jointly sponsored successful sessions and we plan to continue to do so. Joint sessions bring together members of our communities to discuss programs of mutual interest.

Membership in DPB enables the division to continue its efforts of providing quality meetings and active communications with our members through mailings, newsletters and email. Your membership directly relates to the amount of influence the division has on APS operations. The number of members dictates the number of scientists nominated to fellowship by the DPB. By participating, you strengthen the prestige and professional standing of accelerator and beam physics.

DPB is a co-sponsor with IEEE of the important biannual particle accelerator conferences. If you are a user of one of the major accelerator facilities, then you understand the importance of supporting the specialty of beam physics and of your colleagues, who design, improve, maintain, and operate these facilities.

There are less tangible but important reasons for you to join DPB and support its activities. Joining not only directly supports DPB activities and announces to the APS Executive Council, government funding agencies, and the general public that substantial numbers of scientists consider beam physics to be an activity worthy of both attention and resources. The community of specialists in accelerator and beam physics is small but plays an important role within the broader physics and scientific communities. Members of DPB invent new ways of accelerating particles, build new major facilities and improve existing facilities that are used for a very wide range of basic and applied research and by many of you in DNP.

To join DPB and take advantage of this free one-year offer send email to our Secretary-Treasurer (Ernie Malamud, <u>malamud@foothill.net</u>) who will forward names to the appropriate department in APS.

Sincerely,

Gerald Dugan Chair, Division of Physics of Beams