

# Newsletter No. 156 May 2008

TO: Members of the Division of Nuclear Physics, APS

FROM: Benjamin F. Gibson, LANL - Secretary-Treasurer, DNP

### ACCOMPANYING THIS NEWSLETTER:

• DNP Nomination Ballot



#### Future Deadlines

- 1 July 2008 Nomination Ballot, DNP Elections
- 1 July 2008 Contributed Abstracts, Fall Mtg.
- 1 July 2008 Nominations for Bonner Prize
- 1 July 2008 Nominations for Bethe Prize
- 1 July 2008 Nominations for Dissertation Award
- 23 Sep 2008 Early Registration, DNP08
- 23 Sep 2008 Hotel Reservation, DNP08

The home page for the Division of Nuclear Physics is now available at "http://dnp.aps.org." 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

Richard F. Casten, Yale, Chair (2008)

Lawrence Cardman, JLab, Chair Elect (2008)

William Z. Zajc, Columbia, Vice Chair (2008)

Richard G. Milner, MIT, Past Chair (2008)

Benjamin F. Gibson, LANL, Sec.-Treas. (2008)

A. Baha Balantekin, Univ. Wisc. Div. Councilor (Dec. 2009)

Thomas Glasmacher, Mich. St. Univ., (2008)

Geoffrey L. Greene, ORNL (2009)

Krishna S. Kumar, Univ. Mass., (2008)

Allena K. Opper, GWU (2009)

Michael J. Ramsey-Musolf, Univ. Wisc., (2008)

Krishna Rajagopal, MIT (2009)

#### Program Committee

Lawrence S. Cardman, Jefferson Lab, Yale, (Chair)

William A. Zajc, Columbia Univ., (Vice Chair)

Richard G. Milner, MIT, (Past Chair 2006)

Richard F. Casten, Yale, (Past Chair 2007)

B. F. Gibson, LANL, (Secretary-Treasurer)

B. R. Holstein, Univ. of Massachusetts

Z-E. Meziani, Temple Univ.

A. C. Mignerey, Univ. of Maryland

J. Nagle, Univ. of Colorado

W. Nazarewicz, Univ. of Tennessee

S. A. Page, Univ. of Manitoba

W. Rogers, Westmont College

M. Sargsian, Florida Intl. Univ.

H. Schatz, Michigan State Univ.

B. M. Sherrill, Michigan State Univ.

J. H. Thomas, LBNL

J. F. Wilkerson, Univ. of Washington

Remaining committees will appear in August.

# 2. NOMINATIONS OF OFFICERS AND EXECUTIVE COMMITTEE FOR 2009

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 2009 spring meeting in Denver, CO. Lawrence S. Cardman will become Chair, William A. Zajc will become Chair-Elect, and Geoffrey Greene, Allena Opper, and Krishna Rajagopal will remain members of the Executive Committee. A Vice-Chair, Secretary-Treasurer, and three members of the Executive Committee are to be elected before May 2009.

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. The nominating ballot can be downloaded. It should be received by **Benjamin F. Gibson** on or before **1 July 2008** 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 (51 for this election) shall be deemed nominated for that post.

If you are a DNP member, please exercise your right to nominate candidates for the upcoming DNP elections. In 2007 there were only 76 nomination forms received by the Secretary-Treasurer. More members do vote in the DNP elections, but in January 2008 only some 790 members voted. **It is important to vote!** 

## $\textbf{INSIDE} \dots$

- Call for Prize/Award Nominations
- Future Meetings
- · Nuclear Physics Summer School
- DNP 2008 in Oakland



CALL FOR PRIZE/AWARD NOMINATIONS

# 3. NOMINATIONS FOR THE 2009 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, E. K. Warburton, F. Boehm, J. D. Walecka, R. G. H. Robertson, J. M. Moss, V. R. Pandharipande, R. Arnold, R. Geller and C. Lyneis, J. D. Bowman, A. B. McDonald, G. F. Bertsch, R. J. Holt, J. C. Hardy and I.S. Towner, S. J. Freedman, and A. M. Pozkanzer.

The purpose of this prize, which currently consists of \$10,000 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 may 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 *I July 2008* to: June L. Matthews, Room 26-433, MIT, Cambridge, MA 02139.

# 4. NOMINATIONS FOR THE 2009 BETHE PRIZE IN NUCLEAR PHYSICS AND ASTROPHYSICS

This annual prize was established in 1996 by friends, students, and associates of Hans A. Bethe and announced at Bethe's 90th birthday celebration at Cornell. Previous prize winners are: J. Bahcall, E. E. Salpeter, I. Talmi, G. E. Brown, M. C. T. Wiescher, W. C. Haxton, S. E. Woosley, A. G. W. Cameron, J. R. Wilson, and F. K. Thielemann.

The purpose of the prize, which currently consists of \$10,000 and a certificate citing the recipient's contributions, is "To recognize outstanding work in theory, experiment, or observation in the areas of astrophysics, nuclear physics, nuclear astrophysics or closely related fields."

The award is to be made to one individual for outstanding accomplishments in these areas. No time limits are set on when the work was done.

Nominations remain active for three years. It is extremely helpful for the committee to receive additional letters of support that detail the contributions of the nominee and the impact these contributions have had on the field. It is also appropriate to submit material such as significant articles that might help the committee evaluate the nominee's contribution. While general statements concerning the value of the nominee's work are important, specific information defining what the nominee has contributed and how this contribution has impacted the field is needed.

Send name of proposed candidate and supporting material before *1 July 2008* to: Roland L. Diehl, Max Planck Institute (MPE) Giessenbachstr 1, Garching D-85741, Germany.

## 5. NOMINATIONS FOR THE 2009 DISSERTATION AWARD IN NUCLEAR PHYSICS

The annual award, which recognizes a recent Ph.D. in nuclear physics, was established in 1985 by members and friends of the Division of Nuclear Physics of the APS. Previous winners are: B. Sherrill and W. J. Burger, Thomas E. Cowan, Michael J. Musolf, James Edward Koster, Zhiping Zhao, Greg Schmid, Yury G. Kolomensky, Eric Hawker, John Arrington, Daniel Bardayan, Juinn-Wei Chen, Karsten Heeger, Andrew Steiner, Andriy Kurylov, Li-Bang Wang, Kathryn Miknaitis and Magdelena Djordjevic, and Nikolai Tolich and Deepshikha Choudhury.

Nature: The award consists of \$2500 and an allowance for travel to the annual Spring Meeting of the Division of Nuclear Physics of the American Physical Society at which the award will be presented.

**Rules and Eligibility:** Nominations are open to any person who has received a Ph.D. degree in experimental or theoretical nuclear physics from a North American university within the two-year period preceding 1 July 2008.

Send before *1 July 2008* the nomination of the proposed candidate, a statement of his/her contribution to the research as well as that of others and a letter of support from 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. These materials are required for each nominee and should be sent to R. F. Casten, Phys Dept/Wright Nuc Str Lab, Yale University, P. O. Box 8124, New Haven, CT 06520-8124.

#### 6. FUTURE DNP FALL MEETINGS

2009	Oct. 13-17	Waikoaloa, HI
2010	Nov. 3-6	Santa Fe, NM

The dates include the "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. 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.

#### 7. FUTURE APS SPRING MEETING INFORMATION

2009	May 2-5	Denver, CO
2010	Feb 13-16	Washington, DC
2011	April 15-18	Anaheim, CA

Any comments/suggestions should be sent to APS Meetings Manager, Donna Baudrau (baudrau@aps.org). Please note that the April Meeting is not always in April

# 8. 2008 NATIONAL NUCLEAR PHYSICS SUMMER SCHOOL, Harald W. Griesshammer and Allena Opper

The 20th National Nuclear Physics Summer School will be held on the campus of George Washington University, 15-27 June 2008. The school is intended for advanced graduate students in both experimental and theoretical nuclear physics. The primary aim is to provide future research scientists with a broad perspective in current research in the field. Details can be found on the summer school web site: http://www.phy./gwu.edu/NNPSS.

The lecturers will include:

David Richards (Jefferson Lab) - Lattice QCD
Harald Griesshammer (The George Washington University) Effective Field Theory in Few Nucleon Systems
Xiangdong Ji (University of Maryland) - Nucleon Structure,
Baryon Resonances, and Meson Resonances
Thomas Schaefer (North Carolina State University) Hot Dense Nuclear Matter
Art Champagne (University of North Carolina) and
Baha Balantekin(University of Wisconsin) Nuclear Astrophysics and Neutrinos
Susan Gardner (University of Kentucky) - Fundamental
Symmetry Tests and Precision Measurements
Thomas Papenbrock (University of Tennessee and Oak Ridge
National Lab) - Physics of Nuclei

Additional special seminars will be given by Vern Ehlers (US Representative from Michigan), Rush Holt (US Representative from New Jersey), Daniel Blumenthal (Department of Homeland Security), Gerard Garino (Office of Emergency Response), Cedric Yu (University of Maryland Medical Center), Paulo Bedaque (University of Maryland), Betsy Beise (University of Maryland), Daniel Carman (Jefferson Lab), Alexandra Gade (Michigan State University), Neil Gehrels (NASA/Goddard), Aksel Hallin (University of Alberta and SNOLab), Frank Lee (George Washington University), Paul Stankus (Oak Ridge National Lab), and Tod Strohmayer (NASA/Goddard).

The 2008 NNPSS is sponsored by The National Science Foundation, The United States Department of Energy, The National Institute for Nuclear Theory, The George Washington University, and The Center for Nuclear Studies.

### 9. DNP FALL MEETING IN OAKLAND, CA 23-26 OCTOBER 2008, J. H. Thomas

The Annual Fall Meeting of the Division of Nuclear Physics of the American Physical Society will be held 23-26 October 2008 (Thursday-Sunday) at the Marriott City Center Hotel and Conference Center in Oakland, California. Two associated half-day topical workshops will be held on Thursday morning, 23 October 2008. Additional information can be found on the meeting website, http://www.lbl.gov/dnp08.

#### Venue

Founded in 1852, Oakland, California has history that goes back much further than its 150 years. Native Americans lived in the region for over 5,000 years. The Spanish visited the area in the 1770's, and came to settle about 50 years later. Asians, African Americans, and those of Northern European extraction came with the Gold Rush, and put down their own roots. Today, Oakland is one of the nation's most ethnically integrated cities, Oaklanders speak more than 100 languages and dialects.

Oakland's landscape is a picturesque mix of lovely hillside neighborhoods; exciting and diverse architecture; a bustling waterfront; two shimmering lakes; 19 miles of shoreline along the San Francisco Bay; unparalleled Bay views; and more parks and open space per capita than any other city in the Bay Area. A city on the move, Oakland has emerged as a major economic force in the region. Long a center for international trade, the Port of Oakland is the nation's fourth busiest container port.

The biggest tourist attraction in the region is the city of San Francisco. Consistently ranked as one of the world's favorite cities to visit, San Francisco is the world-famous city by the bay and home to many iconic images such as the Golden Gate Bridge, the Transamerica Building, Alcatraz Island, as well as Chinatown, cable cars, and the famous zigzagging Lombard Street. San Francisco is also famous for the Fisherman's Wharf, the Castro District, Market Street and the Coit Tower.

San Francisco was founded in 1776 by Spanish settlers who named the city after St. Francis. The city remained relatively small until the boom period from the start of the 1848 California Gold Rush until 1906, when the city was struck by a massive earthquake. As a result of the earthquake, in 1906 much of the city was destroyed by fire, but since that time San Francisco has become one of the country's biggest centers for commerce, trade, shipping, and culture.

All of the attractions of the SF Bay area and Napa Valley are readily available by rental car or BART. The BART station is only one block from the front door of the hotel.

#### Transportation & Weather

Oakland is served by the Oakland International Airport (about 15 minutes from the hotel), the San Francisco International Airport (45 minutes away) and from the San Jose Airport (60 minutes away). The low-cost airlines fly into Oakland while all of the major airlines serve SFO. Information concerning ground transportation is located on the meeting website. Oakland is home to a moderate climate. The summer months in Oakland, from July to October, feature typically dry, warm and sunny weather so you can expect clear skies and comfortable weather (but it never hurts to bring an umbrella). Evening temperatures in October may drop into the 50s, while daytime temperatures will generally be near 70 degrees (F).

#### Hotel

All conference meetings and sessions will be held at the Marriott Hotel and Conference Center. A block of rooms has been reserved for meeting participants at a rate of \$125 plus tax. In order to receive the reduced room rate, you should not contact the hotel directly. Information on making hotel reservations is located on the meeting website. Hotel reservations should be made by 23 September 2008.

### Registration

Conference registration is available through the meeting website.

Those desiring to receive a printed copy of the Bulletin of the American Physical Society (BAPS) prior to the meeting should register before the early registration cut-off date, check the appropriate box on

the registration form, and provide a U.S. postal address. The BAPS will be sent by Priority Mail.

Registration costs and deadlines are listed in the following table

	Members	Nonmembers	Students/	Workshop
			unemployed	
Early	\$200	\$400	\$100	\$ 40
Registration				
(Sept. 23)				
Late Registration	\$250	\$450	\$125	\$ 60
(Oct. 15)				
On-site	\$300	\$500	\$150	\$ 80
Registration				

A banquet will be held at the Marriott on Saturday evening. Tickets will be available through the conference registration link for an additional \$55 fee.

## **Meeting Structure**

The meeting will start on Thursday, 23 October 2008. In order to obtain lower room rates, the workshops will be held on Thursday morning and the opening plenary session for the main meeting will begin on Thursday afternoon. The traditional parallel invited sessions, minisymposia and contributed paper sessions will start on Friday and continue through Sunday morning.

The meeting format is a pattern shift compared to previous DNP Fall meetings. At the Oakland meeting, we will use the 'APS Spring meeting' format with two sessions in the morning and two sessions in the afternoon. Each session will be two hours long and can accommodate three invited talks or ten contributed talks.

Three workshops will be held in parallel on Thursday morning, 23 October,

- A) Nuclear Physics Underground
- B) Quarks to Cosmos with Petaflops
- C) Quantifying the Character of the sQGP

The workshops will be four hours long, split into two sessions with a coffee break between sessions. More information on these workshops is included under the Workshops link on the meeting website.

#### **Satellite Meetings**

It is expected that a number of User's Group meetings and other satellite meetings will occur in conjunction with the DNP08. User's Groups are encouraged to hold their meetings on Friday evening. Please contact the conference organizers at dnp08@lbl.gov and the conference coordinators at info@cccmeetings.com to make arrangements for these meetings. The deadline for arranging satellite meetings is 29 August 2008.

#### Abstracts

The deadline for the electronic submission of abstracts is 1 July 2008. The meeting ID is DNP08. Instructions are available on the meeting homepage under the Abstract Submission link.

Only electronic submission of abstracts is permitted and the lead author on the abstract is assumed to be the presenter. APS rules no longer permit the same lead author on more than one abstract.

**Important Dates** 

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1 July 2008	Submission of abstracts
29 August 2008	Requests for satellite meetings
23 September 2008	Early registration ends
23 September 2008	Conference Hotel Deadline
15 October 2008	Late Registration Ends

#### **Organizing Committee:**

Manuel Calderón, UC Davis

Jutta Escher, LLNL

Huan Huang, UCLA

Peggy McMahan Norris, LBNL

Richard Seto, UC Riverside

Ron Soltz, LLNL

Robert Svoboda, UC Davis

Jim Thomas, LBNL (Chair)

For general information about registration or lodging, contact info@cccmeetings.com and for all other general information contact DNP08@lbl.gov.

# 10. ANNUAL REVIEWS OF NUCLEAR AND PARTICLE SCIENCE

New 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 that entitles one to the DNP discount will be verified through the DNP prior to shipment of orders.

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.

#### 11. FUTURE CONFERENCES

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

### "Nuclear Structure 2008 (NS2008)"

3 - 6 June 2008

NSCL/MSU, East Lansing, MI

Organizers: Paul Mantica, Krzysztof Starosta, and Dirk Weisshaar

Email: ns2008@nscl.msu.edu http://meetings.nscl.msu.edu/ns2008/

# "10th Int'l. Workshop on Meson Production, Interaction and Decay (MESON2008)"

6 — 10 June 2008 Cracow, Poland

Chairs: Carlo Guaraldo, Hartmut Machner, and Andrzej Magiera

Email: meson@if.uj.edu.pl

URL: http://www.if.uj.edu.pl/konferencje/meson2008

# "Nuclear Chemistry Gordon Research Conference on Nuclear Reactions"

15 — 20 June, 2008

Colby-Sawyer College, New London, NH

Chair: Betty Tsang

Email: tsang@nscl.msu.edu

http://www.grc.org/programs.aspx?year=2008&program=nuchem

# "34th International Conference on High Energy Physics (ICHEP 2008)"

30 July – 5 August 2008 Philadelphia, PA

Chairs: N.S. Lockyer, A.J. Stewart, and J. Kroll

http://ichep08.com

# "The 20th International Conference on the Application of Accelerators in Research and Industry (CAARI 2008)"

10 - 15 August 2008 Ft. Worth, Texas

Chairs: F. Del McDaniel and Barney L. Doyle

http://www.caari.com

#### "Gordon Research Conference on Photonuclear Reactions"

10 - 15 August 2008

Tilton, NH

Chair: Sabine Jeschonnek

http://www.grc.org/programs.aspx?year=2008&program=photonuc

# "Fourth Asia-Pacific Conference on Few-Body Problems in Physics (APFB08)"

19 – 23 August 2008 Depok, Indonesia

Co-Chairs: I. Fachruddin & T. Mart Email: apfb08@fiska@ui.ac.id URL: http://apfb08.fisika.ul.ac.id

### "Quark Confinement and the Hadron Spectrum (Confinement8)"

1 — 6 September 2008 Mainz, Germany Sekretariat: Heidi Stein Email: styeinh@uni-mainz.de

URL: http://wwwthep.physik.uni-mainz.de/~confinement8/site/

#### "Ulaanbaatar Conference on Nuclear Physics and Applications"

8 — 11 September 2008 Ulaanbaatar, Mongolia

Scientific chair: Undraa Agvaanluvsan Email: agvaanluvsan1@llnl.gov

http://www.monamescience.org/ulaanbaatarconference.html

# "International Conference on Exotic Atoms and Related Topics (EXA'08)"

15 – 18 September 2008

Vienna, Austria Chair: Stefan Meyer

http://www.oeaw.ac.at/smi/event/exa08/

# "International Conference on Low Energy Antiproton Physics (LEAP'08)" $\,$

16 – 19 September 2008

Vienna, Austria Chair: Stefan Meyer

http://www.oeaw.ac.at/smi/event/leap08/

## "18th International Symposium on Spin Physics (SPIN2008)"

6 – 11 October 2008 Charlottesville, VA Chair: D. Crabb

Email: uvaspin08@virginia.edu

URL: http://faculty.virginia.edu/spin2008

# "2008 IEEE Nuclear Science Symposium and Medical Imaging Conference (2008 IEEE NSS/MIC)"

18 – 25 October 2008 Dresden, Germany Chair: Uwe Bratzler Email: nssmic2008@fzd.de

URL: http://www.nss-mic.org/2008

#### "18th Particle And Nuclei International Conference" (PANIC 08)

9 – 14 November 2008, Eilat, Israel

Chair: Itzhak Tserruya

Email: panic08@weizmann.ac.il

Phone: 972-8-9343835 Fax: 972-8-9344172

http://www.weizmann.ac.il/conferences/panic08/

# "Interfacing Structure and Reactions at the Centre of the Atom (KERNZ08)"

1 – 5 December 2008 Queenstown, New Zealand Chair: Ian Thompson

Email: Programme@kernz.org FAX: +1-925-422-5940 http://www.kernz.org

#### 12. TREASURER'S REPORT

The summary of the DNP balance of funds with the APS along with the balances for the Bethe Prize, Bonner Prize, and Dissertation Award accounts, as reported to the DNP Executive Committee and at the April 2008 DNP Business Meeting, are printed below. The Treasury is in good condition, as it needs to be when meetings such as the Joint DNP/JPS Hawaii meetings are undertaken.

To provide a brief summary of major DNP expenses, DNP funds have been used for a number of worthy causes: support for public lectures, physics Olympics, Teacher's Day programs, graduate student awards to encourage participation in the spring meeting (and Hawaii 2005), Conference Experience for Undergraduate support at the DNP Fall Meeting, Lunch with the Expert at the April Meeting, support for the APS International Travel Grant program, support for the APS Congressional Fellow program, publication of the DNP newsletter, printing/distribution of the Nobel Prize Poster, and sorters meeting expenses for the fall and spring meetings. The DNP has recently paid the Bonner prize from DNP funds, so that earnings could accumulate to the \$200,000 endowment required by the APS to raise the prize to the \$10,000 level. Traditionally, Bonner Prize recipient travel expenses have been paid from DNP funds as have those for the Dissertation Award winner(s). The Bethe Prize endowment has already reached the \$200,000 level. The DNP also contributed to the publication costs for the joint APS unit Neutrino study.

## TREASURY REPORT APRIL 2008

	2/29/08	2/28/07	2/28/06	3/31/05	3/31/04
DNP Fund Balance	\$201,566	\$192,423	\$205,576	\$298,866	\$252,646
	12/31/07	12/31/06	12/31/05	12/31/04	12/31/03
Bethe Prize	\$239,513	\$231,153	\$223,241	\$215,859	\$209,895
Bonner Prize	\$204,268	\$190,546	\$178,364	\$166,659	\$163,197
Dissertation Award	\$53,835	\$ 52,956	\$ 51,677	\$ 50,472	\$ 49,320

## RICHARD F. CASTEN Chair

Phys Dept/Wright Nuc Str Lab P. O. Box 8124 New Haven, CT 06520-8124 Phone: (203) 432-6174 Fax: (203) 432-3522 rick@riviera.physics.yale.edu

## LAWRENCE S. CARDMAN Chair-Elect

Jefferson Lab. 12000 Jefferson Ave., Suite 5 Newport News, VA 23606 Phone: (757) 269-7032 Fax: (757) 269-5800 cardman@jlab.org

## WILLIAN A. ZAJC Vice-Chair

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Fax: (212) 854-3379 zajc@nevis.columbia.edu

### BENJAMIN F. GIBSON Secretary-Treasurer DNP MS R283

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