

Division of Nuclear Physics

The American Physical Society

Newsletter No. 131 May 2002

TO: Members of the Division of Nuclear Physics, APS

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

ACCOMPANYING THIS NEWSLETTER:

- · DNP02 Meeting Registration Form
- DNP Nomination Ballot



Future Deadlines

- 1 July 2002 User Group Deadline in order to appear in the October Bulletin
- 1 July 2002— Nomination Ballot for DNP Election
- 1 July 2002 Contributed Abstracts, DNP02 Fall Meeting
- 1 July 2002 Nominations for Bonner Prize
- 1 July 2002 Nominations for Bethe Prize
- 1 July 2002 Nominations for Dissertation Award
- 15 August 2002 DNP02 Early Registration Deadline
- 30 August 2002 DNP02 Hotel Reservations Deadline

Home Page for the DNP: http://nucth.physics.wisc.edu/dnp

The home page for the Division of Nuclear Physics is now available at "http://nucth.physics.wisc.edu/dnp." 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 Baha Balantekin at "dnp@nucth.physics.wisc.edu"

1. DNP COMMITTEES

Executive Committee

Charles Glashausser, Rutgers, Chair (2002)

Baha Balantekin, U. Wisconsin, Chair-Elect (2002)

Donald F. Geesaman, ANL, Vice Chair (2002)

Joel M. Moss, LANL, Past Chair (2002)

Benjamin F. Gibson, LANL, Secretary-Treasurer (2002)

Bunny C. Clark Ohio State University

Divisional Councilor (December 2005)

Charlotte Elster, Ohio U. (2002)

Alejandro Garcia, Notre Dame Univ. (2003)

John C. Hardy, Texas A&M Univ. (2003)

Tsung-Shung H. Lee, ANL (2002)

Bradley M. Sherrill, MSU (2002)

Willem T. H. van Oers, Univ. of Manitoba (2003)

Program Committee

A. Baha Balantekin, U. Wisconsin (Chair)

Donald F. Geesaman, ANL, Vice Chair

Charles Glashausser, Rutgers (Past Chair, 2001)

Joel M. Moss, LANL (Past Chair, 2000)

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

- A. Aprahamian, Notre Dame Univ.
- B. Barrett, Univ. of Arizona
- B. Beise, Univ. of Maryland
- D. Dean, ORNL
- K. de Jager, JLab
- S. Elliott, Univ. of Washington
- D. Hertzog, Univ. of Illinois
- A. Macchiavelli, LBNL
- G. McLaughlin, N. Carolina State Univ.
- D. Morrissey, Michigan State Univ.
- J. Thomas, LBNL
- B. van Kolck, U. Arizona

Remaining committees will appear in August.

2. NOMINATIONS OF OFFICERS AND EXECUTIVE COMMITTEE FOR 2003

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 spring meeting in Philadelphia, PA, April 2003. Baha Balantekin will become Chair, Donald F. Geesaman will become Chair-Elect, and Alejandro Garcia, John C. Hardy, and Willem T. H. van Oers will remain members of the Executive Committee. A Vice-Chair, Secretary-Treasurer, and three members of the Executive Committee are to be elected before April 2003.

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 should be received by **Benjamin F. Gibson** on or before **1 July 2002** in order to be counted. The DNP bylaws require that a nominee proposed for a given post by not fewer than one-fiftieth of

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the members (48 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 2001 there were only 136 nomination forms received by the Secretary-Treasurer. More members vote in the DNP elections, but in January 2002 only some 601 election ballots were mailed in by members. It is important to vote!

CALL FOR 2003 PRIZE/AWARD NOMINATIONS

3. NOMINATIONS FOR THE 2003 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, and J. D. Bowman.

The purpose of this prize, which currently consists of \$7,500 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 *1 July 2002* to: T. W. Donnelly, Ctr. For Theoretical Physics 6-300, MIT, 77 Massachusetts Ave., Cambridge, MA 02139

4. NOMINATIONS FOR THE 2003 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, and G. Baym.

The purpose of the prize, which currently consists of \$7500 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 2002* to: Katherine Gebbie, B160 Physics, NIST, 100 Bureau Dr., MS 8400, Gaithersburg, MD 20899-8400.

5. NOMINATIONS FOR THE 2003 DISSERTATION AWARD IN NUCLEAR PHYSICS

The now annual prize, which recognizes a recent Ph.D. in nuclear physics, was established in 1985 by members and friends of the Division of Nuclear Physics of the APS. Previous winners are: B. Sherrill and W. J. Burger, Thomas E. Cowan, Michael J. Musolf, James Edward Koster, Zhiping Zhao, Greg Schmid, Yury G. Kolomensky, Eric Hawker, John Arrington, Daniel Bardayan., and Jiunn-Wei Chen

Nature: The award consists of \$2000 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 September 2002. Nominations remain in effect for two years and need not be resubmitted.

Send before *1 July 2002* 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 Dr. Charles Glasshausser, Department of Physics, Rutgers University, 136 Frelinghuysen Road, Piscataway, NJ 08854-8019

6. FUTURE DNP FALL MEETINGS

2003 Oct. 29 – Nov. 1 Tucson, AZ

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 Maui meeting was an exception

— no workshops but a four-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 of the local community.

7. FUTURE APS SPRING MEETING INFORMATION

2003	April 5 – 8	Philadelphia, PA
2004	May 1 – 4	Denver, CO
2005	April 16 – 19	Tampa, FL

The 2003 APS Spring Meeting will move to Philadelphia, PA and the 2004 meeting will be in Denver, CO. Any comments/ suggestions should be sent to APS Meetings Manager, Donna Baudrau (baudrau@aps.org).

8. NATIONAL NUCLEAR PHYSICS SUMMER SCHOOL

2002 National Nuclear Physics Summer School Steering Committee, as of 8/1/01:

A. B. Balantekin (Past Chair)

E. J. Beise, (Chair)

R. J. Furnstahl, (Vice Chair)

B. R. Barrett (grantee)

B. V. Jacak

W. Nazarewicz

V. J. Pandharipande

D. F. Geesaman

J. F. Wilkerson

The 2002 National Nuclear Physics Summer School will be housed at St. John's College in Santa Fe, NM, July 28 - August 10. The lecturers will be:

William Louis "Neutrino Physics"

Aneesh Manohar "QCD and its Symmetries" Thomas Schaefer "High Density QCD"

Joseph Carlson "Microscopic Nuclear Physics"

Guy Savard "Physics for a Rare Isotope Accelerator"

In addition, Yong-Zhong Qian will give a seminar on "Rocks with a view of the universe: from neutrinos and nuclei to stars and galaxies," and Vijay Pandharipande will give a seminar on "Nuclear Matter and Neutron Stars". All information plus an application form can be found on the web site URL:

http://t16web.lanl.gov/npss/index.html

9. 2002 DNP FALL MEETING EAST LANSNG, MICHIGAN, 9-12 OCTOBER, D. J. Morrissey

The annual Fall Meeting of the Division of Nuclear Physics (DNP) will be held at the Kellogg Center on the campus of Michigan State University from Thursday, October 10th, through Saturday, October 12th. The meeting will return to the traditional format that opens with a plenary session on Thursday, has a Town Meeting on Friday, and concludes on Saturday. Two topical workshops will be held in parallel on the preceding Wednesday. Updated information and registration is available via the conference web site http://www.nscl.msu.edu/dnp02

All abstracts must be submitted electronically through the APS system by July 1st, 2002. Undergraduate students are encouraged to contact W. Rogers rogers@westmont.edu about travel support through the Conference Experience for Undergraduates program.

Hotel

The Kellogg Center is fully reserved for the meeting and has 150 rooms available at the rate of \$82/night, plus taxes (single or double room). One hundred rooms are reserved at the East Lansing Marriott at the rate of \$104/night, plus taxes (single, double, or triple room). The walk through campus to the Marriott from the Kellogg Center takes ~15 minutes. An additional fifty rooms are reserved at the Hampton Inn at a rate of \$75/night, plus taxes (single or double room). The Hampton Inn is located ~3 miles north of the Kellogg Center on US-127. Car parking will be free for those staying at the Kellogg Center and will be available for \$5/day in a ramp adjoining the Kellogg Center.

All reservations should be made through the Kellogg Center reservation system, PHONE: 517/432-4000, TOLL-FREE: 800/875-5090, FAX: 517/353-1872. Please specify "APS-DNP meeting rate" and preferred hotel when making your reservation. The Kellogg Center accepts reservations over the web at http://www.hfs.msu.edu/kellogg/; be sure to include "APS-DNP" in the Additional Information section. Note that all reservations should be made by August 30th, 2002 in order to obtain these special rates.

A small number of dorm style rooms will be available in the Brody Complex across the street from the Kellogg Center at the rate of \$31.80 for a single room and \$42.40 for a double room. Please contact the conference secretary, S. Conroy, via email dnp02@nscl.msu.edu for information about dormitory room reservations.

Registration

Registration costs are indicated in the following table.

	Members	Non members	Students \Unempl	Work shop
Early Reg. (by August 15 th)	\$135	\$300	\$60	\$30
Late Reg. (Aug. 16 th -Oct. 6 th)	\$185	\$350	\$75	\$45
On-site Reg.	\$235	\$400	\$90	\$50

The registration fee <u>includes</u> buffet lunch on Thursday, Friday, and Saturday served in the Big Ten Room at the Kellogg Center. No refunds will be made for missed meals. Early registration will end on August 15th, 2002 (note that this is approximately six weeks after the abstracts are due). A banquet will be held on Friday evening at an additional cost.

Meeting Structure

The meeting will consist of invited talks and mini-symposia to be arranged by the DNP Program Committee at its Spring Meeting along with the traditional contributed talks. The regular meeting will be preceded by two all-day workshops that will run in parallel. One workshop is entitled "The Future of Gamma-ray Spectroscopy" and will be organized by T. Glasmacher (MSU), R. Janssens (ANL), and I-Yang Lee (LBNL). The other workshop is entitled "Nuclear Astrophysics at the Limits of Stability" and will be organized by H. Schatz (MSU) and M. Wiescher (Notre Dame). More information is available on the workshops from the organizers.

A reception and open-house will be hosted by the National Superconducting Cyclotron Lab on Wednesday evening. User-group

or other satellite meetings can be accommodated on Thursday evening; please contact D.J. Morrissey by September 1st for meeting room reservations.

Venue and Transportation

The meeting will be held at the Kellogg Center on the campus of Michigan State University. Car parking for those not residing at the Kellogg Center will be available for a fee in a ramp adjoining the Kellogg Center. The Kellogg Center and the Marriott provide airport shuttle service to/from the Lansing airport with prior reservation for their guests. Taxis are also available for the ~20 minute trip from the Lansing airport (code LAN). The Grand Rapids, Kent County airport (code GRR) is approximately 65 miles away via Interstate-96-east. The Detroit Metropolitan airport (code DTW) is 90 miles away via Interstate highway I-94-west to I-275-north onto I-96-west.

Local Organizing Committee

W. Bauer, T. Glasmacher, P.F. Mantica, D.J. Morrissey (chair), H. Schatz, and B.M. Sherrill

Conference Secretary: S. Conroy. Specific questions can be addressed via email to dnp02@nscl.msu.edu

Summary of Important Dates

Invited speaker nominations were due 29 March 2002. The deadline for submission of abstracts is **1 July 2002**. The meeting ID is DNP02. Instructions and templates can be obtained by sending an email message to abs-request@aps.org; enter *request DNP02* in the subject line and also in the body of the message. Direct web submission of abstracts thru www.aps.org is encouraged. Please note that the LaTeX-based processor properly handles ONLY the commands provided in the template.

The deadline for early registration is 15 August 2002. Hotel reservations at the conference rate must be made by 30 August 2002; note that the rooms at Kellogg Center itself will probably be booked out before this date.

10. FALL MEETING MINI-SYMPOSIA

Mini-symposia will again be a part of the 2002 Fall Meeting in East Lansing. Mini-symposia are focused sessions in which an invited speaker sets the tone for the topic, provides an overview and introduction, highlights new developments, etc. That talk is followed by related contributed papers. Abstracts are submitted in the usual manner; that is, abstracts are submitted to APS HQ electronically as indicated in the instructions in this Newsletter.

To insure that your abstract is considered for the mini-symposia in which you wish to participate, it is necessary that your abstract be identified with the appropriate code. There is no guarantee that all abstracts submitted for a given mini-symposium can be accommodated in that contributed paper session. In the event that more abstracts are received than can be accommodated, the additional abstracts will be assigned to another related contributed paper session. See item #11 for topics.

11. ABSTRACT SUBMISSION

The deadline for electronic submission of abstracts is 1 July 2002. The meeting ID is DP02. Instructions and abstract templates can be obtained from the APS. The LaTeX-based template can handle properly ONLY the commands provided in the template. Direct web submission of abstracts is encouraged, because it leads to fewer errors. Complete abstract submission instructions can be found at

http://www.aps.org/meet/meet-abstract.html. Note the 25-line length limit.

We strongly urge you to proof your abstract before submission. Contributors may submit one of two ways.

Submitting abstracts via the web: To submit a contributed abstract using the online web submission process, an author needs to know two things: (1) the number and ordering of authors and collaborators; and (2) abstract content. The web page will guide the author through the rest. Try a test submission before submitting an abstract. Log onto http://abstracts.aps.org and select the meeting TEST. Follow the directions online to create your own practice abstract. When ready to submit your abstract online, select the meeting DNP02 by clicking on the appropriate button. A form will be created for you. Simply input the information. Please note: Invited speakers should refer to their letters of invitation for instructions on locating the invited template.

Submitting abstracts via e-mail: Contributors must create their abstracts from an electronic template supplied by the American Physical Society. The template and instruction files for contributed abstracts can be obtained by sending e-mail to abs-request@aps.org with the phrase request DNP02 in the message. Invited speakers should refer to their letters of invitation for instructions on receiving the invited template. Those contributors who are absolutely unable to submit an abstract via the web or electronically should contact meetings@aps.org.

If you have questions regarding abstract submission, please send them to abs-help@aps.org.

Please use these sorting categories when submitting contributed papers:

- 1. Nuclear Astrophysics
- 2. Electroweak Interactions
- 3. Electromagnetic Interactions
- 4. Ultrarelativistic Heavy Ions
- 5. Nuclear Reactions: Heavy Ion Reactions/Beams
- 6. Nuclear Reactions: Hadrons/Light Ions
- 7. Nuclear Structure
- 8. Instrumentation
- 9. Hadrons/Subnucleonic Degrees of Freedom
- 10. Nuclear Theory
- 11. Applications of Nuclear Physics
- 12a. Mini-symposium A
- 12b. Mini-symposium B
- 12c. Mini-symposium C
- 12d. Mini-symposium D
- 12e. Mini-symposium E
- 13. Other

Specific mini-symposia topics will be announced via e-mail and on the meeting web site (http://nucth.physics.wisc.edu/dnp/fall) following their selection by the Program Committee at the April 2002 spring meeting.

12. E-MAIL ABSTRACT SUBMISSION, B. F. Gibson

At the end of this newsletter can be found a sample postscript contributed abstract in proper form. This was generated using the template.

Please note the commands for title notes, author notes, collaboration identification, and footnotes. DO NOT USE standard LaTeX and RevTeX commands for these. Also note the 25-line length limit.

13. 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 will be verified through the DNP prior to shipment of orders.

2002 Prices: The dual prices (separated by a slash) listed below correspond to USA/other countries including Canada. Volumes 44 and 45 are \$62/\$67 retail and \$43.40/\$46.90 for DNP members. Volume 46 is \$67/\$72 retail and \$46.90/\$50.40 for DNP members. 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.

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.

Payment should accompany your order and must be in U.S. funds. California orders must add applicable sales tax. *All orders shipped to Canada require the addition of a 7% GST (Reg. #121449029 RT)*.

14. FERMILAB NUCLEAR PHYSICS FACILITY, M. Witherell

One of the major new initiatives at Fermilab is the NuMI (Neutrinos at the Main Injector) facility, a high intensity neutrino beam with an energy range from 1.5 to 20 GeV, currently being constructed for the MINOS neutrino oscillation experiment. The construction of the facility and the MINOS experiment is proceeding well and the first protons on the NuMI target should be delivered by early 2005. It is important to note that the NuMI beam and MINOS experiment are high priority at Fermilab and that the NuMI facility will run, at nominal intensity, simultaneously with the Collider program.

An important part of the NuMI facility is a large experimental hall to house the MINOS near detector located about 1 km from the production target. At this location the neutrino beam is several orders of magnitude more intense than any previous accelerator neutrino beam in this energy range. As this experimental hall is large enough to contain one or more additional detectors, it is a

reasonable time to consider proposals for new experiments wishing to use the intense NuMI beam. The nuclear physics community is invited to seriously consider joining this new experimental effort.

A concept for an experiment in this near hall, which has already attracted some interest from the nuclear physics community is a high-statistics experiment to measure neutrino scattering, from the (quasi) elastic limit up into the DIS regime, off various nuclei. Discussions are at a very preliminary stage and this idea, as well as others, will be covered in the Near Hall Experiments Working Group at a workshop at Fermilab on May 2-4, 2002 to discuss possible new initiatives for the NuMI neutrino beam. The web page for this Workshop is: http://www-numi.fnal.gov/fnal_minos/new_initiatives/new_initiatives.html.

15. FUTURE CONFERENCES

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

"Wigner Centennial Conference" 8-12 July, 2002, Pecs, Hungary, Contact: Zsuzsanna Marton, conference secretary, Institute of Physics, University of Pecs, H-7624 Pecs, Ifjusag utja 6., E-mail: wigner@quantum.ttk.pte.hu, WWW: http://quantum.ttk.pte.hu/~wigner

"2002 Photonuclear Reactions Gordon Research Conference" 18–23 August 2002, Tilton, NH Contacts: Betsy Beise, Daniel Phillips, Hans-Jurgen Arends, e-mail: grc2002@physics.umd.edu.

"The Second Asia Pacific Conference on Few-Body Problems in Physics (APFB02)" 27–30 August 2002, Shanghai, P.R. China, Contacts: Dazhen Jiang and Hongqiu Song, Shanghai Institute of Nuclear Research, CAS, P. O. Box 800-204, Shanghai 201800, Tel: ++86 21 59553476, Fax: ++86 21 59553021, E-mail: dzjiang@sinr.ac.cn or songhq@sinr.ac.cn WWW: http://apfb02.sinr.ac.cn.

XVIII European Conference on Few-Body Problems in Physics, 8–14 September 2002, BLED, SLOVENIA, Contact: Rajmund Krivec, J. Stefan Institute and University of Ljubljana, Jamova 39, POB 3000, SI-1001 Ljubljana, Slovenia, E-mail: fb2002@ijs.si, FAX: +386-1-477-3716, WWW: http://fb2002.ijs.si

"XVI Particles and Nuclei International Conference (PANIC02)," 30 September – 4 October 2002, Osaka, Japan. Chairs: Hiroshi Toki (RCNP) and Kenichi Imai (Kyoto), Contact: Tadafumi Kishimoto, Osaka University, WWW: http://www.rcnp.osaka-u.ac.jp/~panic02, listserver: panic02@rcnp.osaka-u.ac.jp; send a blank email with "subscribe" as the subject.

CHARLES GLASHAUSSER Chair

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DONALD F. GEESAMAN Vice-Chair

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BENJAMIN F. GIBSON Secretary-Treasurer

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