



**TO:** Members of the *Division of Nuclear Physics*, APS  
**FROM:** Ken Hicks, Ohio U. – Secretary-Treasurer, DNP

**HIGHLIGHTED IN THIS NEWSLETTER:**

- DNP Election Results

**Future Deadlines:**

- **1 May 2021** — Nominations for the DNP Mentoring Award
- **1 May 2021** — Nominations for Distinguished Service Award
- **15 April 2021** — Nominations for the Stuart Jay Freedman Award
- **1 May 2021** — Nominations for APS Fellows (DNP)

The home page for the Division of Nuclear Physics is available at <http://dnp.aps.org>. Information of interest to DNP members – nominations, prizes, meeting deadlines, *etc.* are provided. Each DNP Newsletter is posted online. Comments and suggestions are solicited. Please send them to Julie Roche at [rochej@ohio.edu](mailto:rochej@ohio.edu)

**1. RESULTS OF THE DNP ELECTION: OFFICERS AND EXECUTIVE COMMITTEE FOR 2021**

By the deadline date of 22 January 2021, 677 web ballots or properly executed paper ballots were cast in the 2020 election of officers and members of the Executive Committee. The results of the election are as follows: Haiyan Gao was elected to Vice-Chair and Ramona Vogt was elected to Secretary-Treasurer, both for one-year terms. Krishna Kumar will be appointed to serve a one-year term as Past Chair. Christine Aidala, Carla Frohlich and Alejandra Garcia were elected to two-year terms on the Executive Committee. Baha Balantekin continues as Division Councilor. Baha is now Speaker of APS Council, but can continue to give advice to DNP until the end of his term. The members of the 2021 Executive Committee, who will assume their duties at the close of the Business Meeting of the APS April virtual meeting, are:

**Sherry J. Yennello**, Texas A&M Univ., Chair (2021)  
**S. Vicki Greene**, Vanderbilt Univ., Chair-Elect (2021)  
**Haiyan Gao**, Duke Univ., Vice-Chair (2021)  
**Krishna Kumar**, Univ. of Mass (Amherst), Past-Chair (2021)  
**Ramona Vogt**, LLNL, Secretary-Treasurer (2021)  
**Baha Balantekin**, Division Councilor (2021)  
**Christine Aidala**, Univ. of Michigan (2022)  
**Evie Downie**, George Washington Univ. (2021)  
**Carla Frohlich**, NC State Univ. (2022)  
**Alejandro Garcia**, Univ. of Washington (2022)  
**Jeffrey S. Nico**, NIST (2021)  
**Jacquelyn Noronha-Hostler**, Univ. Illinois (2021)

The DNP wishes to thank each of the members who agreed to stand for election. The DNP depends entirely on volunteers to carry out the business of the Division.

**2. CALL FOR DNP COMMITTEE SUGGESTIONS**

The terms of some of the members of the following DNP committees will expire in April 2021: Fellowship, Nominating, Home Page, Education, and Mentoring. Suggestions from the DNP membership for new members of these committees as well as the APS Prize Committees (Bethe, Bonner, Feshbach, Freedman and DNP Dissertation) are welcome and should be sent to the DNP Chair. A list of committee members for 2021-2022 will be published in the August newsletter.

**3. ACKNOWLEDGE YOUR SPONSORING AGENCY**

Given the importance of agency sponsorship in fostering nuclear physics research, we urge DNP members to acknowledge their agency sponsors in any talk or publication they generate: seminars, workshop contributions, APS meeting talks, conference talks/posters, etc.

**4. NEW APS FELLOWS NOMINATED BY DNP**

The following DNP members are newly elected (2020) Fellows of the APS. Please join us in offering congratulations.

**Almudena Arcones**, *Technical University of Darmstadt*  
**Roger D. Carlini**, *Jefferson Lab*  
**Jason A. Detwiler**, *University of Washington*  
**Ashot Gasparian**, *North Carolina A&T State University*  
**Cecilia Lunardini**, *Arizona State University*  
**Reina Maruyama**, *Yale University*  
**Bedangadas Mohanty**, *Nat. Inst. of Science Educ. & Research*  
**Ingo Wiedenhoefer**, *Florida State University*

The citations for the above Fellows can be found on the DNP website: <https://aps.org/programs/honors/fellowships/archive-all.cfm>

The award pin and certificate for the above Fellows will be presented at the Business Meeting of the April APS virtual meeting. The Business Meeting and Town Hall will be held on Monday, 19 April 2021, following the DNP Prize Session.

**INSIDE . . .**

- Call for nominations: DNP Fellows
- APR21 Virtual Meeting
- DNP21 in Boston, MA



**5. NOMINATIONS FOR APS FELLOWSHIP**

The qualifications and procedure for the election of a Member to Fellowship in the APS can be found under Fellowships on the APS Home Page. Only web nominations are accepted. The total number of members who may be elected to Fellowship in a given year is one half of one percent of the total APS membership.

The DNP deadline for nominations is May 1<sup>st</sup>. Nomination instructions can be found on the APS home page (<http://www.aps.org>); click on the heading “Programs” and follow the link to “Honors”.

The 2021 DNP Fellowship Committee is comprised of Krishna Kumar (Chair), Helen Caines, Chen-Yu Liu, and two members to be chosen by the Chair, in consultation with the DNP Executive Committee. This committee reviews the nominations for APS Fellowship referred to the DNP and recommends a slate of candidates, which is forwarded to the APS Committee on Fellowship and then to APS Council for election. Nominations are active for two years. It is important for nominators to ensure that the cases that 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 service, and participation in organization of conferences is very helpful. Inclusion of a current CV and 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 completed at least one major, original work that has influenced his/her specialty in a significant way. The APS requires membership for at least the prior year.

The list of APS Fellows elected in a given year appears on the APS Home Page in November and 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 held during the APS April Meeting.

## 6. APS VIRTUAL MEETING, 17-20 APRIL 2021

The APS April Meeting encapsulates the full range of physical scales, from “Quarks to the Cosmos (Q2C)”. Research will be presented on topics by more than 20 participating APS units. The 2021 theme (Q2C) will be broadly proclaimed through speakers and scientific sessions. The venue will be a virtual format (similar to the 2020 April meeting). The APS has a registration fee this year to cover the costs of the company managing the format, to ensure a smooth delivery of talks.

The APS units participating in the meeting are:

### Divisions

Atomic, Molecular & Optical Physics (DAMOP)  
Astrophysics (DAP)  
Computational Physics (DCOMP)  
Nuclear Physics (DNP)  
Gravitational Physics (DGRAV)  
Particles and Fields (DPF)  
Physics of Beams (DPB)

### Forums

Early Career Scientists (FECS)  
Education (FED)  
Graduate Student Affairs (FGSA)  
History of Physics (FHP)  
International Physics (FIP)  
Physics and Society (FPS)  
Outreach and Engaging the Public (FOEP)

## Topical Groups

Energy Research and Applications (GERA)  
Few-Body Systems (GFB)  
Hadronic Physics (GHP)  
Medical Physics (GMED)  
Physics Education Research (GPER)  
Precision Measurement & Fundamental Constants (GPMFC)

## Committees

Minorities in Physics (COM)  
Status of Women in Physics (CSWP)

The April Meeting program will be highlighted by 3 **plenary sessions**:

**Saturday morning** – *Kavli Foundation Keynotes*: featuring Andrea Ghez (UCLA), Reinhard Genzel (Max Planck Institute for Extraterrestrial Physics), and Roger Penrose (University of Oxford);  
**Monday morning** – *Science on a Global Scale*, featuring Fabiola Gianotti (CERN), Nigel Lockyer (Fermilab), Fiona Harrison (Caltech) and Young-Kee Kim (University of Chicago);  
**Tuesday morning** – *Advancing an Inclusive Community in Science* featuring Geraldine Chochran (Rutgers University), Brian Nord (Fermilab), and Dara Norman (University of Washington).

## Deadlines:

Early Registration: 26 February 2021  
Regular Registration: 26 March 2021  
Late Registration: until 20 April 2021

## 7. APRIL 2021 MEETING PROGRAM (DNP EVENTS)

The DNP Program Committee, under the direction of Program Chair Sherry Yennello with help from DNP Vice-Chair Vicki Greene, has put together a wonderful collection of stand alone and joint sessions:

- Short Range Correlations (DNP/GFB)
- RHIC Beam Energy Scan and the QCD Critical Point (GHP/DNP)
- Nuclear Physics Constraints: Neutron Star Mergers (DAP/DNP)
- Opportunities for Future Hadron Structure Measurements with Large Acceptance and High Luminosity (DNP mini-symposium)
- Low Energy Nuclear Physics - Past, Present and Future (DNP)
- Entanglement in Nuclear Many Body Problems (DNP)
- Hadronic Spin Structure (DNP)
- Applications of Quantum Computing (GFB/DNP)
- Applied Low Energy Nuclear Physics (DNP mini-symposium)
- Challenges for the Hydrodynamic Description of RHIC Data from All Kinds of Correlations (DNP mini-symposium)
- The Pipeline for Physics Careers (DNP/FED)
- Heavy Quarkonia as a Probe of Hot and Cold QCD Media: Current and Future (DNP)
- Intersections of Nuclear and Particle Physics (DNP/DPF)
- Nuclear Data for Neutrinoless Double Beta Decay (DNP)
- Effective Field Theory/Lattice QCD (GFB/DNP)
- Electron-Ion Collider (DNP/DPB)
- The EIC and Hadron Physics (DNP/GHP)

Contributed abstracts for the DNP component of the meeting were arranged into coherent sessions by volunteers from the Program Committee under the direction of Sherry Yennello.

## 8. FUTURE APS SPRING MEETING INFORMATION

2021	April 17-20	Virtual (online)
2022	April 23-26	Washington, DC

Any comments/suggestions should be sent to APS Meetings Manager, Terri Olsen ([olsen@aps.org](mailto:olsen@aps.org)).

## 9. 2021 DNP FALL MEETING IN BOSTON, MA

The Annual Fall Meeting of the Division of Nuclear Physics of the American Physical Society will be held in Boston, MA from Oct. 11 – 14, 2021. The meeting will begin with **topical workshops on Monday morning**, followed by the opening plenary session in the afternoon starting at 3 pm. A reception will be held starting immediately following the plenary session. Parallel scientific sessions – invited speaker sessions, mini-symposia, and contributed sessions – will be held on Tuesday and Wednesday (both morning and afternoon) as well as on Thursday morning. The CEU poster session and the Physical Review Meet-the-Editors Drop-In reception will be scheduled starting at 4 pm on Tuesday. The **banquet** will be held on **Wednesday evening**. The graduate school fair will be held during lunch time on Wednesday, and the DNP Business/Town Meeting will be Wednesday afternoon in the late time slot. A special dinner for graduate students is being planned for Tuesday evening.

The meeting (and all functions) will be held in the Boston Park Plaza Hotel, Boston, MA. The hotel is located 5 miles from Logan International Airport (BOS), which services all major airlines. This 4-star hotel is located near Boston's center, a short walk from Boston Public Garden, and close to numerous restaurants and attractions. The Local Organizing Committee is chaired by Or Hen (MIT, contact: hen@mit.edu), working with Richard Milner (MIT), Areg Danagouljian (MIT), John Doyle (Harvard), Christopher Grant (Boston U.), David Kawall (U. Mass. Amherst), Andrew Rogers (U. Mass. Lowell), Phiala Shanahan (MIT) and Elyse Luc (Admin. MIT). Additional details will be available in the May newsletter and at the conference website (<http://web.mit.edu/dnp2021>) as they become available.

WORKSHOPS: Topical workshops planned for Monday morning:

1. Frontiers of Nuclear Science
2. Diversity and Inclusion in Nuclear Physics
3. Quantum Technology for Nuclear Physics / Nuclear Science Applications

ABSTRACTS: The abstracts website will open in early May, 2021.

HOTEL: Boston Park Plaza, 50 Park Plaza at Arlington Street, Boston, MA, 02116-3912. You must book your accommodations through the conference registration website to obtain the APS special rate.

## 10. PHYSICAL REVIEW C NEWS, Ben Gibson

Five new *Physical Review C* Editorial Board members were appointed to 3-year terms beginning January 1, 2021, by the APS Editor in Chief, Michael Thoennessen:

Jens Dilling (TRIUMF)  
Johann Haidenbauer (FZ - Juelich)  
Satoshi N. Nakamura (Tohoku U.)  
Thomas Papenbrock (U. Tennessee)  
Aurora Tumino (INFN, Catania)

On behalf of the nuclear physics community, the *Physical Review C* editors thank the departing Editorial Board members for their service: B. Alex Brown, Emiko Hiyama, Josef Pochodzella, Andrew Stuchberry, and Yong-Zhong Qian.

The 50th anniversary milestone papers that were highlighted on the *Physical Review C* web page (<https://journals.aps.org/prc/>) during 2020 can be found in a Collection on the web site using the link (<https://journals.aps.org/prc/50th>). The papers appear in inverse

chronological order (December - January) with respect to the date of their highlighting during the year. Papers appearing with identical summary statements were cited together as a pair or a triplet.

## 11. CEU REPORT FROM DNP20, Shelly Leshner

The 2020 CEU program, held in conjunction with the virtual DNP20 Meeting, was a highly successful event. There were 111 students participating in the program which included 17 students who presented oral contributions in either a regular session or in Category 17 – Undergraduate Research session.

The goal of the CEU program is to provide a valuable conference experience for undergraduate students, who have conducted research in nuclear science, by providing them an opportunity to present their research to the larger professional community and to one another in the CEU poster session. This year, students recorded a short YouTube video explaining their research and then met with attendees in individual rooms to answer questions. This year continued a mentoring program where graduate students and postdocs guided the CEU students through the conference experience. Additional CEU activities included nuclear science seminars presented by Catherine Deibel (Louisiana State Univ) and Lijuan Ruan (BNL) as well as a tutorial about applying to graduate school by Jolie Cizewski (Rutgers Univ.) and a graduate school information session.

The CEU program was sponsored by the National Science Foundation, the Department of Energy (via the national labs), and the APS Division of Nuclear Physics.

## 12. STUART JAY FREEDMAN AWARD

The 2020 Stuart Jay Freedman Award in Experimental Nuclear Physics was awarded to **Marta Verweij** (Utrecht University) at the DNP20 virtual meeting. This award, which is given annually, was established to recognize an outstanding early career experimentalist in nuclear physics. It honors the memory of Stuart Freedman who inspired his students and post-docs in experimental nuclear physics through his accomplishments, his approach to science, and his commitment to the scientific development of those whom he mentored.

The deadline for nominations of the 2021 award is April 15. The 2021 selection committee is: Remco Zegers (Chair), Yuri Kolomensky, and a Vice Chair plus another member to be chosen by the DNP Chair. More information may be found on the DNP website. The 2021 award includes a \$4000 stipend. Fund raising for the award continues, with the goal of providing a \$5000 stipend, which requires an endowment of \$150,000. The current endowment is now at about \$133,000. Please contact the APS for donations via the website:

<https://www.aps.org/about/support/freedman.cfm>

### 13. FUTURE CONFERENCES

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

Under the leadership of the DPF, the US particle physics community is engaged in its long-range planning process known as “Snowmass 2021”. Snowmass is an opportunity for the entire HEP community to come together to identify and document a vision for the future of particle physics in the U.S. and with its domestic and international partners. Several of the topics and related workshops would likely profit from the participation of, and be of significant interest to, members of the DNP. More information on Snowmass 2021 can be found on the website: <https://snowmass21.org/>

In particular, the schedule of workshops, deadlines (e.g. for the Letters of Intent and contributed White Papers), and monthly newsletters are listed under “Announcements”: <https://snowmass21.org/announcements>

Links to the current and past workshops can be found at <https://indico.fnal.gov/category/1098/>

The scope of the Snowmass studies is organized in 10 “frontiers” which focus on specific scientific and societal questions relevant to particle physics. Some topics have overlaps with nuclear physics, in particular in the studies of neutrino physics, fundamental symmetries, QCD, detector instrumentation, and accelerator technologies. Members of DNP with interests in these topics are encouraged to participate in the Snowmass process. We strongly encourage early career scientists

(students, postdocs, junior faculty and staff) to engage through the “Snowmass Early Career” groups:

<https://snowmass21.org/start/young>.

Many of the community issues common to particle and nuclear physics are being discussed within the “Community Engagement Frontier”:

<https://snowmass21.org/community/start>. For more information on how to stay connected to Snowmass 2021 through various media please see <https://snowmass21.org/communicationtypes>, or contact the conveners of the relevant frontiers and topical groups.

#### “Snowmass 2021”

11-20 July 2021, at University of Washington (Seattle)

Contacts: Bob Bernstein (FNAL) and Sergei Chekanov (ANL)

URL: <https://snowmass21.org>

Email: [snowmass-steering@fnal.gov](mailto:snowmass-steering@fnal.gov)

#### “8th Asia-Pacific Conference on Few-Body Problems in Physics”

1-5 March 2021, Kanazawa, Japan

Contacts: Emiko Hiyama, Souichi Ishikawa, Atushi Tamai

URL: <http://www.rcnp.osaka-u.ac.jp/Divisions/npl-a/apfb2020>

Email: [apfb2020@mail.phys.kuushu-u.ac.jp](mailto:apfb2020@mail.phys.kuushu-u.ac.jp)

#### “International Conference on Hypernuclear and Strange Particle Physics (HYP2021)”

4-8 October 2021

Contact: Jiri Mares, Conference Chair

URL: <http://rafael.ujf.cas.cz/hyp2021/>

Email: [mares@ujf.cas.cz](mailto:mares@ujf.cas.cz)

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