

Chair Line

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HIGHLIGHTED IN THIS NEWSLETTER:

- 2022 DNP Elections

Future Deadlines:

- **7 December 2021:** Deadline to vote in the DNP Election
- **20 December 2021:** Deadline for APS April meeting abstract submission
- **18 February 2022:** Early registration deadline for APS April meeting
- **1 March 2022:** Nomination Deadline for Mentoring and Service Awards
- **1 May 2022:** Deadline for Nominations of APS Fellows from DNP
- **1 May 2022:** Nomination Deadline for Freedman Award

The Division of Nuclear Physics home page is available at <https://engage.aps.org/dnp/home>. Information of interest to DNP members such as nominations, prizes, and committee memberships can be found there. The DNP newsletters are also posted online. Comments and suggestions are solicited and can be sent to Jeff Nico at jef-frey.nico@nist.gov.

I. 2022 DNP ELECTIONS

The terms of the officers and three members of the current Executive Committee will expire in April 2022. The installation of officers will take place at the DNP Business meeting in April 2022. Sherry Yennello will become Past-Chair, Vicki Greene will become Chair, and Haiyan Gao will become Chair-Elect. Baha Balantekin's term as Division Councilor expires in January 2022. However, because he is currently Speaker of the Council, he will remain on the Council another year as Past Speaker. Christine Aidala, Alejandro Garcia, and Carla Frolich will remain members of the Executive Committee. In April 2022, Krishna Kumar will retire as Past-Chair, and Evie Downie, Jaki Noronha-Hostler and Jeff Nico will retire from the Executive Committee. A

Vice Chair, Division Councilor, Secretary-Treasurer, and four members of the Executive Committee (one Early Career member) are to be elected. Executive Committee terms are 2 years, and the Secretary-Treasurer term will now be for 3 years. This year's Nominating Committee consists of Fred Wietfeldt (Chair), Filomena Nunes (Vice-Chair) Xin Dong, Xiaochao Zheng, and Jorge Lopez. The candidates selected by the Nominating Committee and approved by the Executive Committee are:

Vice-Chair (one position):

Dean Lee (Michigan State University)

Zein Eddine Meziani (Argonne National Laboratory)

Secretary-Treasurer (one position)

Heather Crawford (Lawrence Berkeley National Laboratory)

Ramona Vogt (Lawrence Livermore National Laboratory & UC Davis)

Division Councilor (one position)

Berndt Mueller (Duke University)

John Wilkerson (University of North Carolina)

Executive Committee (three positions)

Edmundo Garcia-Solis (Chicago State University)

Paul Gueye (Michigan State University)

Or Hen (MIT)

Huey-Wen Lin (Michigan State University)

Christine Natrass (University of Tennessee)

Brad Plaster (University of Kentucky)

Executive Committee Early Career (one position)

Andrea Delgado (Oak Ridge National Laboratory)

Tyler Kutz (MIT)

Austin Reid (Indiana University)

*Candidate bios are given later in this newsletter.***1.1. 2022 Bylaws update**

As a reminder, pending APS Council reapproval following some minor wording changes made since the DNP Meeting, the DNP will vote on whether to make the Diversity, Equity, and Inclusion Committee and the Education Committee regular DNP Standing Committees. After a reshuffling of the committee list in Article VII:

Appointed Committees in the DNP Bylaws. The Nominating and Program Committees will come first, followed by the DEI and Education Committees, and then the National Nuclear Physics Summer School Steering Committee, the Fellowship Committee, the committees for DNP Unit Awards (Distinguished Service, Dissertation Award, Mentoring Award) and named Prizes and Awards (Bethe, Bonner, Feshbach Prizes and Freedman Award), followed by clauses on terms of service and ad hoc committees.

The full text of the clauses regarding the new committees reads:

3. Diversity, Equity, and Inclusion (DEI) Committee The DEI Committee shall consist of a Chair and at least seven other members, serving staggered, two-year terms. All Committee members are appointed by the Chair and approved by the DNP Executive Committee, in consultation with the DNP Allies Program Chair. The DNP Allies Program Chair is appointed every three years by the DNP Chair. All Committee members shall undergo annual DEI training. The Chair of the DEI Committee will be chosen by the DEI Committee membership. The members shall include a member of the DNP Executive Committee, the Chair of the DNP Allies Program, at least three senior scientists with a record in DEI activities, and at least one early career scientist, one graduate student representative, and one undergraduate representative. The undergraduate can serve a one or two-year term, as appropriate. The DEI Committee membership should be as diverse as possible.

The Committee shall undertake activities related to Diversity, Equity, and Inclusion in the DNP as deemed necessary by the Executive Committee, in consultation with the members of the DEI Committee.

4. Education Committee The Education Committee shall consist of a Chair and at least seven other members serving staggered, two-year terms, appointed by the Chair in consultation with the Executive Committee, the Director of the Conference Experience for Undergraduates (CEU) Program, one graduate student representative, one undergraduate representative, and at least three other scientists with a record in educational activities. The Director of the Conference Experience for Undergraduates (CEU) Program, for the period that the agency grant shall exist to support this activity, shall be a member of the Committee. The membership of the Education Committee should collectively have expertise in the education of undergraduate, graduate, postdoc, and traditionally underrepresented populations as well as outreach to the broader population. The Education Committee membership should include representation from a national laboratory, have expertise in tracking students, and be as diverse as possible.

The Education Committee shall undertake activities related to the education of young scientists in nuclear physics, as deemed necessary by the DNP Executive Committee, in consultation with the members of the Education Committee.

II. 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 such as seminars, workshop contributions, APS meeting talks, and other conference talks/posters.

III. 2021 DNP MENTORING AWARD

The 2021 recipient of the APS Division of Nuclear Physics Mentoring Award is Hamish Robertson of the University of Washington. Hamish gave a talk at the DNP 21 Awards Session. His citation reads:

“For generous, sustained and inspiring mentorship of multiple generations of early career scientists, resulting in a lasting impact on a great many scientific careers.”

IV. 2021 NUCLEAR PHYSICS DISSERTATION AWARD

The 2021 recipient of the APS Division of Nuclear Physics Dissertation Award is Erika Holmbeck of Notre Dame University. Erika’s dissertation advisor was Prof. Rebecca Surman. Erika presented a summary of her research in the DNP 21 Awards Session. Her citation reads:

“For thesis work elucidating the nature of the rapid neutron-capture process, including actinide production in the early Universe, with an innovative combination of nuclear network calculations and spectroscopic observations of metal-poor stars in the Milky Way.”

V. 2021 DNP DISTINGUISHED SERVICE AWARD

The 2021 recipient of the APS Division of Nuclear Physics Distinguished Service Award is Filomena Nunes of Michigan State University. This award was announced at the DNP 21 Business Meeting. Her citation reads:

“For her exceptional and rich contributions toward making the DNP a place where all members can thrive, especially those from traditionally underrepresented groups, including service as the inaugural chair of the Subcommittee on Harassment Prevention and the creation of the DNP Allies program.”

VI. 2021 STUART JAY FREEDMAN AWARD

The 2021 recipient of the APS Division of Nuclear Physics Stuart Jay Freedman Award is Danielle Speller of Johns Hopkins University. Danielle gave a talk in the DNP 21 Awards Session. Her citation reads:

“For excellence in experimental research into the fundamental nature of matter and mass based on low-energy cryogenic detection techniques, in particular neutrinoless double beta decay and dark matter searches.”

VII. 2022 BETHE PRIZE WINNER

Madappa Prakash of Ohio University is the recipient of the 2022 APS Hans A. Bethe Prize. The prize will be awarded at the APS 2022 April meeting. His citation reads:

“For fundamental contributions to the physics of hot and dense matter, and their implications for heavy ion collisions and multi-messenger observations of neutron star structure and evolution.”

VIII. 2022 BONNER PRIZE WINNER

David Hertzog of the University of Washington is the recipient of the 2022 APS Tom W. Bonner Prize. The prize will be awarded at the APS 2022 April meeting. His citation reads:

“For advancing the frontiers of understanding nature’s fundamental symmetries via unprecedented precision studies of the muon, including its lifetime, its anomalous magnetic moment, and its measurement by the pseudoscalar coupling constant.”

IX. 2022 FESHBACH PRIZE WINNER

David Kaplan of the University of Washington is the recipient of the 2022 APS Herman Feshbach Prize. The prize will be awarded at the APS 2022 April meeting. His citation reads:

“For multiple foundational innovations in nuclear theory, including in lattice quantum chromodynamics, effective field theories, and nuclear strangeness, and for strategic leadership to broaden participation between nuclear theory and other fields.”

X. NOMINATIONS FOR THE DNP MENTORING AWARD

Nominations are sought for the Division of Nuclear Physics Mentoring Award. This APS Unit Award is intended to recognize Division of Nuclear Physics members who have had an exceptional impact as mentors of nuclear scientists and students. This mentoring could be through teaching or research or science-related activities. Examples of contributions of individuals who could be candidates for this award:

- Exceptional mentoring of early career nuclear scientists;

- Sustained commitment to mentoring early career nuclear scientists from traditionally under-represented backgrounds;
- Leadership in developing nuclear science research and career development activities, such as centers for nuclear science research for undergraduates, or conference experiences for students, or summer schools for nuclear science students.

Early career nuclear scientists include undergraduate and graduate students, postdoctoral scholars, and nuclear science professionals early in their careers, such as assistant professors or assistant scientists.

Nominations for the 2022 award are due 1 March 2022 and should be sent to Sherry Yennello, yennello@comp.tamu.edu.

Nomination packets should consist of at least 3 but not more than 4 letters supporting the nomination and a brief bio sketch of the candidate. At least two of the letters should be submitted by individuals who have benefited from the mentoring experience. Nominees shall be members of the DNP. There are no time limitations on contributions that can be recognized by this award. Nominations will be active for three years.

XI. NOMINATIONS FOR THE DNP DISTINGUISHED SERVICE AWARD

Nominations are sought for the DNP’s Distinguished Service Award. This APS Unit Award is intended to recognize those who have made substantial and extensive contributions to the nuclear physics community through the activities of the DNP. The award will consist of a certificate with the citation specified by the selection committee. Nominees should be active or emeritus members of the DNP. There are no time limitations on contributions that can be recognized by this award. Nominations will remain active for three years. The award need not to be given each year. No more than two recipients will be selected in a given year. The selection committee will consist of the DNP Chair, Chair-Elect, Vice-Chair, Past-Chair, and Secretary-Treasurer. The DNP Chair will serve as the chair of the selection committee.

Nominations for the 2021 award are due March 1, 2021 and awarded at the fall DNP meeting. Nominations should be limited to a one-page description of the candidate’s contributions to nuclear physics through the DNP, plus an optional listing of positions held, major committee memberships, and the like.

Nominations should be sent to Sherry Yennello, yennello@comp.tamu.edu.

XII. 2021 DNP FALL MEETING

The 2021 Fall DNP meeting was held as a virtual meeting from 11-14 October. Due to the rise of the Delta variant of COVID-19, it was decided against an in-person conference at the end of August.

The meeting was a success, with about 1300 registered participants. The local hosts at MIT, in particular the LOC chair, Or Hen, and Elsy Luc, did a great job hosting the meeting and setting up the Zoom links.

Taking into account lessons learned from the 2020 meeting, the webinar format was only used for the plenary sessions, the rest of the sessions were regular Zoom meetings. The Zoom setup could either be entered directly via the website or through a surrounding Gather.Town site built by uncork-IT, who had provided a similar environment for the Lattice 2021 meeting, also hosted by MIT. The poster session was hosted entirely in Gather.Town, as was also the Graduate School Fair. The CEU program was integrated into the meeting Epitome to help the students navigate and integrate into the regular meeting.

XIII. FUTURE MEETINGS

13.1. DNP Fall Meetings

The dates and locations for the future DNP Fall Meetings are given below. The meeting will be in New Orleans in 2022 with the Hawaii meeting in 2023. Because the 2021 meeting was virtual, the 2024 meeting will be in Boston.

2022	27-30 October	New Orleans, LA
2023	TBD	Hawaii, joint with JPS
2024	6-10 October	Boston, MA

The dates include the pre-meeting workshops, which are normally held in conjunction with the DNP Fall Meetings. These workshops, organized by the local organizing committee, have been a tradition at the DNP Fall Meetings since they began with the 1986 Vancouver meeting. All meeting attendees are welcome and encouraged to come. It has been the intention of the DNP Executive Committee 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 important to the local community.

13.2. APS Spring Meetings

The dates for the next two April meetings are given below. The DNP prepares a program for these spring meetings as well, with invited sessions often organized jointly with other units. The meeting is an excellent opportunity to learn about new research and discoveries made by other units. The plenary session has often included Nobel laureates in physics. The DNP program committee also prepares mini-symposia for these meetings. The DNP prize sessions include talks by the Bethe, Bonner and Feshbach Prize winners. The DNP also holds a combined business meeting and town hall during the April

meeting, with introduction of the new DNP Fellows and change of unit officers.

2022 9-12 April New York, NY
2023 15-18 April Minneapolis, MN

Any comments/suggestions regarding the April meeting should be sent to APS Director of Meetings, Hunter Clemens (clemens@aps.org).

XIV. 2022 APS APRIL MEETING

The APS is currently planning for an in-person event in New York City, from 9-12 April 2022, with virtual components, as to be determined. The April meeting website states “As attendee safety is among our primary concerns, we are carefully monitoring national and local public health guidelines and will respond accordingly.”

The April meeting encapsulates the full range of physical scales, from “Quarks to the Cosmos” The theme of the 2022 meeting is “Bring Your Ideas”. Research will be presented by speakers from the 20 participating units including particle physics, nuclear physics, astrophysics, and gravitation. For more information, go to the APS website: <https://april.aps.org>.

The meeting will be held at the New York Marriott Marquis, 1535 Broadway, New York, a block from Times Square, 0.25 miles from Penn Station to the south and 0.3 miles to Central Park to the north.

ABSTRACTS: The submission deadline is 20 December 2021.

REGISTRATION: The early registration deadline is 18 February 2022.

MEETING FORMAT: In person, with virtual components, to be determined.

XV. CANDIDATE BIOGRAPHIES

NOMINATIONS FOR VICE-CHAIR (vote for 1)

DEAN LEE: Theoretical Nuclear Science Department Head (2020-present) and Professor of Physics at the Facility for Rare Isotope Beams at Michigan State University (2017-present). Professor (2012-17), Associate Professor (2007-12), Assistant Professor (2001-07) of Physics at North Carolina State University. Postdoctoral Researcher at the University of Massachusetts Amherst (1998-2001). Ph.D. in Physics from Harvard University (1998), A.B. in Physics from Harvard University (1992). Organizer of the 2020 DNP Virtual Meeting hosted by the Facility for Rare Isotope Beams, N3AS Advisory Committee (2021-present), INT National Advisory Committee (2019-present), FRIB Theory Alliance Executive Board (2018-2021), Chair Line of the APS Few-Body Topical Group (2016-2020), Associate

Editor of the Nuclear Physics Section of *Frontiers in Physics* (2017-present), Fellow of the APS (2014), Alumni Distinguished Undergraduate Professor at North Carolina State University (2012), Outstanding Teaching Award at North Carolina State University (2006), APS LeRoy Apker Award (1991). Co-organizer of the Nuclear TALENT Summer School at ECT* (2019), International Conference on Proton Emitting Nuclei (2019), and International Workshop on Chiral Dynamics (2018). Research interests in many-body theory, nuclear forces, structure, scattering, reactions, thermodynamics, high performance computing, quantum computing, and machine learning.

ZEIN-EDDINE MEZIANI: Senior Scientist and Group Leader of Medium Energy Physics in the Physics Division at Argonne National Laboratory and an Adjunct Professor at Temple University where he was a Professor of Physics from 1993 to 2020. Dr. Meziani received his Ph.D. in 1984 from the University of Paris XI, Orsay in experimental nuclear physics and then become a postdoctoral fellow as part of the Nuclear Physics at SLAC (NPAS) program with the University of Virginia. Dr. Meziani subsequently became faculty at Stanford University as an Assistant Professor in 1986, before joining Temple University in 1993 as an Associate Professor, becoming full Professor in 1996. Dr. Meziani's research centers around experimental studies of the multi-dimensional structure of nucleons and nuclei, among them their spin, mass and charge distributions in terms of their quark and gluon content within Quantum Chromodynamics (QCD), and investigated nuclear medium effects on the nucleon electromagnetic properties and few-body nuclear systems. Dr. Meziani has played an active role in the development of the SoLID experiment at Jefferson Lab and leads Argonne's involvement in the Electron Ion Collider via a Lab Strategic Initiative. He has performed experiments at CEA Saclay France, SLAC, BNL, and Jefferson Lab. Dr. Meziani was involved in the first studies of the neutron spin structure at SLAC using a polarized ^3He target in the early 90's and brought some of these experimental studies from SLAC to Jefferson Lab where his research flourished into some of the important science motivations of the 12 GeV upgrade of Jefferson Lab. Dr. Meziani is spokesperson of many experiments at Jefferson Lab, and was also a member of the Program Advisory Committee (2004-2007). He has served as the Chair of Jefferson Lab Users Group Board of Directors in 2009-2011. In 2007 he Co-chaired, the QCD and Hadron Physics Town Meeting of the APS/Division of Nuclear Physics (DNP). He was a member of the Nuclear Science Advisory Committee (NSAC) Long Range Plan Working Group in 2007 and 2014. In 2012 he was a member of the Subcommittee on Scientific Facilities of NSAC, and more recently, 2017-2018, he served on the Committee on a US-Based Electron Ion Collider Science Assessment at the National Academy of Sciences. More recently Feb.

2017-April 2020, he was a member of the DOE/NSF Nuclear Advisory Committee (NSAC) and Chair of the Collaborative Research Center (CRC) 1044 Program Advisory Committee, University of Mainz, Germany 2017-2021. Dr. Meziani is co-author of more than 175 peer-reviewed papers, Co-Editor of the *European Physical Journal A (EPJA)* (2007-2016) and Co-Editor of the *Electron Ion Collider White Paper*. Dr. Meziani is a Fellow of the American Physical Society (APS) in 2004 and the recipient of the Temple University Faculty Research Award, 2008.

*NOMINATIONS FOR SECRETARY-TREASURER
(vote for 1)*

HEATHER CRAWFORD: Staff Scientist at Lawrence Berkeley National Laboratory (LBNL) and Adjunct Professor in the Department of Physics and Astronomy at Ohio University. She received her B.Sc. in Chemistry from Simon Fraser University in 2006, and her Ph.D. in Nuclear Chemistry from Michigan State University in 2010. She joined LBNL as a postdoctoral researcher in 2010, and went onto an Assistant Professor position at Ohio University in 2014. She returned to LBNL as a staff-track scientist in 2015 in the nuclear structure group with the Nuclear Science Division (NSD), and became a staff scientist in 2018. She received the LBNL Director's Award for Excellent Achievement as Early Scientific Career in 2019, and is a recipient of a 2021 DOE Early Career Research Program award. Her research is focused on the structure of very neutron-rich isotopes, and the development of tools for such studies, including gamma-detector arrays such as GRETA, for which she is a deputy manager for mechanical system and the manager for system assembly. She has served on project review committees for both DOE and NSF and is an active member of the nuclear physics community. She has served on a broad range of user and scientific committees; FRIB Users Executive Committee (2015-2021; chair from 2016-2021; NSCL operations subcommittee from 2015-2018); GRETINA/GRETA Users Executive Committee (2016-2020; chair from 2017-2019); RIBF/RIKEN Users Executive Committee (2019-present); Low Energy Community Organizing Committee (2015-present); TRIUMF Subatomic Physics Experiments Evaluation Committee (2019-present).

RAMONA VOGT: Physicist at Lawrence Livermore National Laboratory, Adjunct Professor of Physics at UC Davis, and Affiliate Scientist at Lawrence Berkeley National Laboratory. She received a B.S. Physics from the University of Illinois at Urbana-Champaign and her PhD in Physics from the State University of New York at Stony Brook. She was a postdoctoral fellow at LLNL and GSI in Germany. She has been an August-Wilhelm Scheer Visiting Professor at the Technical University of Munich and has served as Scientific Editor of LLNL's Science & Technology Review. Her research

interests are broad, including production of heavy flavor, quarkonium, and electromagnetic probes of cold to hot nuclear matter, the phenomenology of nuclear fission as co-developer of the FREYA complete event fission model, fission recycling in r-process nucleosynthesis, and nuclear modifications of high energy neutrino production. She was named a fellow of the APS in 2010 for her contributions to heavy flavor physics in heavy-ion collisions. She has been an editorial board member of Physical Review C and Physical Review Research and was named an APS Outstanding Referee in 2017. She has been an organizer of many conferences and workshops including the CHARM, Hard Probes, and Quarkonium Working Group series of meetings and is a local organizer for the upcoming Nuclear Data conference in 2022. She has been involved in outreach activities, including LBNL's Nuclear Science Day for Scouts. She has a long history of service to the APS, both in the Topical Group on Hadronic Physics, where she has been Member-at-Large, Past Chair and Secretary-Treasurer and helped establish the GHP Dissertation Award, and in the Division of Nuclear Physics having served on the Program Committee and the Executive Committee. She is a member of the APS Committee on Fellowship and is also a member of the DNP Allies. She is also currently the DNP Secretary-Treasurer.

NOMINATIONS FOR DIVISION COUNCILOR (vote for 1)

BERNDT MUELLER: James B. Professor of Physics at Duke University. He received his Ph.D. in Theoretical Physics from the Goethe Universität in Frankfurt (Germany) in 1973. After post-doctoral appointments at Yale University and the University of Washington, and a faculty appointment in Frankfurt in (1976—1989), he accepted a faculty position at Duke University in 1990, where he served as Department Chair (1997—99), Dean for the Natural Sciences in the College of Arts & Sciences of Duke University (1999—2004) and as Director of Duke's Center for Theoretical and Mathematical Sciences (2008—2012). He recently was the Associate Laboratory Director for Nuclear and Particle Physics at Brookhaven National Laboratory (2013—2020). Mueller's research is focused on quantum chromodynamics, in particular, on the structure and properties of hot QCD matter and the phenomenology of relativistic heavy ion collisions. He has previously worked on the physics of strong fields and atomic collisions. He is an author or co-author of several textbooks and over 300 refereed publications with more than 30,000 citations. Mueller is a Fellow of the American Physical Society and the American Association for the Advancement of Science. He is a recipient of the Röntgen Prize (1976), the Senior US Scientist Award of the A. v. Humboldt Foundation (1998), the SESAPS Jesse Beams Award (2007) and the Feshbach Prize for Theoretical Nuclear Physics (2021). Mueller has served as a Divisional As-

sociate Editor of Physical Review Letters (1992—1994). He was a member of NSAC (1993—1995) and chaired the NSAC Subcommittee on Nuclear Theory (2003). He also served as member and chair of the National Advisory Committee of the INT (1995—98), member and chair of the APS Publications Oversight Committee (2010—2013), member of the Board of Directors of ORAU (2012—2015), and as member of the Physics Policy Committee of the APS (2016—2018).

JOHN WILKERSON: John R. and Louise S. Parker Distinguished Professor of Physics, University of North Carolina, at Chapel Hill, 2008-present; Joint Faculty Appointment, Oak Ridge National Laboratory, 2010-present; Affiliate Professor of Physics, University of Washington, 2009-present; Associate Director, Triangle Universities Nuclear Laboratory, 2009-present; Director, Institute of Cosmology, Subatomic Matter, and Symmetries, 2015-present; Professor of Physics, University of Washington, 1994-2008; Associate Vice Provost for Research, University of Washington, 2003-2008; Associate Chair, Department of Physics, University of Washington, 1999-2001; Staff Member, Los Alamos National Laboratory, 1985-1994; Postdoctoral Fellow, Los Alamos National Laboratory, 1982-1985; Ph.D. in Physics, University of North Carolina, 1982. APS Fellow, 1998; AAAS Fellow, 2010; APS DNP Distinguished Service Award, 2019; Co-recipient, Breakthrough Prize in Fundamental Physics, 2016; Co-recipient, NSERC John C. Polanyi Award, 2006; LANL Distinguished Performance Award, 1990. Professional Service: DNP Ad hoc Funding Committee Chair, 2018 – present; APS, Francis M. Pipkin Award Committee, 2021; APS April Meeting Program Committee, Vice Chair 2017, Chair-elect 2018, Chair 2019, Past Chair 2020; DNP Acting Past Chair, 2018; DNP Vice Chair, 2013, Chair-elect, 2014, Chair 2015, Past Chair, 2016; DNP Fellowship Committee Chair, 2017; DNP, Mentoring Award Committee Chair 2017 and 2019; DNP Dissertation Award Committee Chair, 2016, Past Chair, 2017, Acting Past Chair, 2018; APS, DNP Program Committee, 1996-1998, 2008-2009, Vice Chair, 2013; Chair, 2014; APS Tom W. Bonner Prize Committee, Vice Chair 2011, Chair 2012; DOE/NSF Nuclear Science Advisory Committee, member 2007-2009 and 2015; NSAC Nuclear Physics Long Range Plan Working Group and Writing Committee, member 2006-2007 and 2014-2015; NSAC Sub-committee on Implementing the Priorities and Recommendations of the 2007 Long Range Plan, 2012; National Nuclear Physics Summer School 2011, co-organizer; Physical Review C Editorial Board, 2007-2009; Laboratori Nazionali del Gran Sasso, International Scientific Advisory Committee, member 2002-2007; APS DNP National Nuclear Physics Summer School Committee 2001-2002, chair 2003; APS DNP Nominating Committee 2001-2002, chair 2003; APS Neutrino Study, Neutrinoless double beta decay and direct searches for neutrino mass working group 2003-

2004; NSAC Sub-committee on Fundamental Science with Neutrons 2003; APS DNP Home Page Committee 2001-2002, chair 1998-2000; APS DNP Executive Committee, member 1998-2000; APS, Committee on Meetings, member 1996-1998; DNP Town Meeting on Symmetries, Neutrinos and Astrophysics Organizing Committee, coordinator of Neutrinos and Astrophysics, 2000; numerous organizing committees for international conferences. Research Interests and Activities: Neutrino physics and astrophysics, searches for rare processes, and precision tests of weak interactions. Current research is centered on neutrinoless double beta decay experiments as part of LEGEND and Majorana Collaborations and neutrino mass via the KATRIN Collaboration.

*NOMINATIONS FOR EXECUTIVE COMMITTEE
(vote for 3)*

EDMUNDO GARCIA-SOLIS: Professor of Physics and Associate Provost of Grants and Research Administration. Dr. Garcia-Solis obtained a B.S. in Physics at the National University of Mexico (UNAM). He received his doctoral degree in Physics from the University of Maryland in 1995. After graduation, Garcia-Solis was a postdoc at Brookhaven National Laboratory, where he worked with the PHOBOS Collaboration. In 2001, he joined the University of Illinois at Chicago's High Energy Nuclear Physics Group, where he worked as a Research Scientist on the PHOBOS and CMS experiments. In 2008, he moved to Chicago State University to build a group collaborating with the ALICE experiment. Garcia-Solis has worked in nuclear structure physics and then intermediate energy heavy ion physics. Since 2001 he has been part of the high energy heavy ion physics community studying the quark-gluon plasma, first at Brookhaven and then at CERN. He has worked in the experimental high-energy heavy-ion field, analyzing data and building detectors. He has publications in instrumentation, hadronization of the quark-gluon plasma, jets, and charmonia as probes of deconfinement. He is also studying the muons created by cosmic ray radiation and their applications to Archaeometry. He is currently building a muon hodoscope to explore El Castillo pyramid in the archaeological site of Chichen Itza. Since 2010 Garcia-Solis directed fifteen senior theses for undergraduate students, who have been involved in his research with ALICE at his lab at CSU and CERN. Eight of his students have successfully entered graduate school, of which five are pursuing a degree in physics. Awards from the NSF support Garcia-Solis's high-energy nuclear physics and archaeometry research. He is a member of the American Physical Society. He served as chair of The Committee of Minorities in Physics, and he is on the National Society of Hispanic Physicists board. Garcia-Solis is the SPS advisor at his University, and he is one of the QuarkNet mentors of the Chicago area. He served at the National Science Foundation through an Intergovernmental Personnel Act (IPA) Assignments in

two rotations, as Program Director for the Experimental Nuclear Physics (2016-2018) program and the Integrative Activities in Physics program (2020-2021). *Personal Statement:* Education is my calling. I am convinced of the value of basic research for our society. I believe in the value of diversity as a resource in science and as one of the major engines that propel the advancement of our nation. I am committed to the equality of opportunities based on education.

PAUL GUEYE: Associate Professor of Physics at the Facility for Rare Isotope Beams of Michigan State University (2018-present); Associate Professor of Physics and Chair of the Physics Department (2015-2018), Assistant Professor of Physics (2012-2015), Research Faculty (2000-2012) at Hampton University. Postdoctoral Fellow (1995-2000) at Hampton University. Ph.D. in Nuclear Physics from the University of Clermont-Ferrand II, France (1994). M.S. (1990) and B.S. (1987) in Physics and Chemistry from the University Cheikh Anta Diop, Senegal. His PhD thesis validated the Effective Momentum Approximation (EMA) in electron scattering and as a postdoc he developed the electron energy drift correction tool for the Hall C experimental program at the Thomas Jefferson National Accelerator Facility. Since 2013, he is a member of the MoNA Collaboration that studies neutron rich nuclei along the neutron drip line. He leads or has lead the development of several novel targets for rare isotope science such as a Si-Be segmented target, a GEM based highly segmented target and a polarized target, established a new research program on the production reaction mechanism of neutron rich isotopes, and the development of a e⁺/e⁻ compact linac for lepton scattering off rare isotopes. Prof. Gueye has been and is still actively engaged in various national and international committees pertaining to scientific research and STEM education such as: Program Committee member of the American Physical Society/Division of Nuclear Physics, Chair of the Liaison Committee for Under-Represented Minorities of the American Institute of Physics, President of the National Society of Black Physicists, Chair of the NSBP Nuclear and Particle Physics Section and Outreach Committee, Executive Director of the MoNA Collaboration, Member of the Advisory Committee on the Strategic Programs for Innovations in Undergraduate Physics of the American Association of Physics Teachers, Founder and Chair of the Minority Sub-Committee of the American Association for Physicists in Medicine, Visiting Committee member of the Associated Universities Inc. amongst others. Prof. Gueye was recognized by President Barack Obama in 2015 for some of his work.

OR HEN: Class of 1956 Associate Professor of Physics at MIT. Works on various aspects of nuclear physics, including electron scattering at JLab, neutrino interactions at FNAL, $p + A$ reactions at JINR & GSI, and physics program and detector development for the

EIC at BNL. Recipient of various research awards and fellowships including the APS Steward J. Freedman award. Experience serving the APS on multiple committees: APS new England section executive committee; APS Committee on Scientific Meetings; DNP program committee; and LOC chair for the DNP 2021 Fall meeting. Also served on the Jefferson lab users group board of directors and organized various conferences. Strives to support the broad nuclear physics community and to help advance our scientific program in an open and supportive environment for all.

HUEY-WEN LIN: Associate Professor of Physics at the Michigan State University (2021–present), Assistant Professor (2016–2021), Visiting Assistant Professor at University of California, Berkeley (2016–2015), Research Assistant Professor, University of Washington (2009–2014), Postdoctoral Fellow, Theory group at Jefferson Lab (2006–2009), PhD in Physics from Columbia University (2006). Her past research covers heavy-quark physics, and hadron spectroscopy and interactions, and recently focuses on hadron structure and fundamental symmetries. She received a 2017 NSF Early-Career Award for her work on the Bjorken- x dependence of parton distribution functions and was one of 25 recipients of the 2020 Cottrell Scholar Award for studying the three-dimensional structure of nucleons. She was recipient of the APS Blewett Fellowship in 2015, chair for the Lattice 2018 Conference, lead organizer of the INT Lattice-QCD Summer and elected chair for the 2022 Gordon Conference on Photonuclear Reactions, a prestigious conference series started in 1959. She is co-author for the 2019 USQCD whitepapers “Hadrons and Nuclei” and “Lattice QCD and Neutrino-Nucleus Scattering”, and co-editor for the “Lattice QCD for Nuclear Physics” lecture note by Springer. She has been a fervent supporter of women and minorities in physics, initiating the Women in Lattice QCD luncheon, which now has become an annual event at the Lattice Conference. She is the institutional representative to the APS IDEA network and Electron-Ion Collider (EIC) for which she has contributed to multiple EIC-related whitepapers. She serves on the USQCD Diversity, Equity and Inclusion committee and International Lattice Diversity and Inclusion Committee, where a code of conduct was introduced in the lattice community and a diversity survey issued. She is a creator of the QCD mobile game, “Quantum 3”, an outreach game for K-12 students and the general public, available on the Google Play Store and Apple AppStore. She contributed a case study to the DOE Exascale Report: “Nuclear Physics Exascale Requirements” (2016). She has served as lead-organizer or co-organizer for more than 20 workshops, schools, conferences. She is a member of CTEQ Collaboration, a member of the USQCD Executive Committee and a Topical-Group Convener for Snowmass Energy Frontier. She served on International committees, including International

Advisory Committees for the International Symposium on Lattice Field Theory (2017, 2019, 2021), as convener for the International Spin Symposium (2016) and International Conference on Quark Confinement and the Hadron Spectrum (2012, 2014). Her prior service to the APS includes the GHP Nominating Committee (2017) and 2021 Nicholas Metropolis Award Committee for Outstanding Doctoral Thesis Work in Computational Physics (2021).

CHRISTINE NATTRASS: Associate professor of physics at the University of Tennessee, Knoxville, where she has been on the faculty since 2012. She completed her PhD in 2009 at Yale University on the STAR experiment, followed by a postdoc at UTK on the ALICE and PHENIX experiments. Her research interests are in partonic energy loss in the quark gluon plasma, with an emphasis on method development to improve uncertainties and improving quantitative comparisons between data and models. She is on the PHENIX and sPHENIX collaborations at the Relativistic Heavy Ion collider, the ALICE experiment at the Large Hadron Collider, and the ECCE collaboration at the Electron Ion Collider. She is also a member of JETSCAPE. She is currently serving as chair of the RHIC/AGS Users’ Executive Committee and served as a regular member (2014–2017). She served on the US LHC Users Executive Organization (2016–2018) and has chaired and served on organizing committees for numerous conferences and workshops and was on the organizing committee for the 2019 National Nuclear Physics Summer School. She is a leader in diversity, equity, and inclusion, serving on the sPHENIX Diversity, Equity, and Inclusion committee, co-chairing the ECCE Diversity, Equity, and Inclusion committee, and having been involved in organizing conferences for undergraduate women in physics from 2008–2012. She is particularly interested in career mentoring, organizing several career panels at conferences and developing an undergraduate seminar on careers in physics. She is a member of the APS National Mentoring Community. She takes undergraduate education seriously, serving as undergraduate program director and having mentored 26 undergraduates individually and taught 20 undergraduates in a Course-based Undergraduate Research Experience. She has served the APS as a member of the DNP program committee (2019–2020) and on the DNP Diversity, Equity, and Inclusion subcommittee.

BRAD PLASTER: Professor of Physics, and Chair of the Department of Physics and Astronomy, at the University of Kentucky. He received his B.S. in Physics from M.I.T. in 1999, and his Ph.D. in Physics from M.I.T. in 2004. His Ph.D. research on the neutron electric form factor, under Prof. Stanley Kowalski, was carried out at Jefferson Laboratory. He was then a Postdoctoral Scholar at Caltech with Prof. Brad Filippone from 2003–2008, where his research was focused on tests of fundamental symmetries in experiments with ultracold

neutrons. He was then Assistant Professor (2007-2012), Associate Professor (2012-2018), and Professor (2018-) at the University of Kentucky. His current research program is focused on the search for the neutron electric dipole moment, in experiments at Los Alamos National Laboratory and Oak Ridge National Laboratory. He is currently serving as the Deputy Project Manager for the neutron electric dipole moment experiment at ORNL, the nEDM@SNS experiment, through a Joint Faculty Appointment at ORNL. In 2008, he was named a Department of Energy Outstanding Junior Investigator in Nuclear Physics, and in 2018 was a recipient of the University of Kentucky Provost’s Award for Outstanding Teaching. He recently served on the selection committee for the APS Francis M. Pipkin Award.

*NOMINATIONS FOR EARLY CAREER MEMBER
(vote for 1)*

ANDREA DELGADO (she/her/ella): Physicist at Oak Ridge National Laboratory (ORNL). She earned her Ph.D. in experimental high-energy physics from Texas A&M University, where she was a member of the Compact Muon Solenoid (CMS) collaboration at CERN. Andrea’s research interests lie on the intersection of quantum computing and nuclear and particle physics; developing data analysis and simulation tools for subatomic physics, including machine learning and quantum computing. Andrea was a National Science Foundation Graduate Research Fellow and a National GEM Fellow at Fermi National Accelerator Laboratory before becoming a Distinguished Staff Wigner Fellow at ORNL. Andrea is an advocate for diversity and inclusion in the STEM fields, and has served in several organizations as mentor and coordinator for initiatives seeking to include the representation of Latinx in the physical sciences.

TYLER KUTZ: Postdoctoral fellow at Massachusetts Institute of Technology and Zuckerman Postdoctoral Scholar at Tel Aviv University. He received his PhD

from Stony Brook University in 2019 based on research conducted at Jefferson Lab. His research interests are experimental studies of nuclear and nucleon structure, the emergence of nuclear properties from QCD, and fundamental symmetries, both currently at Jefferson Lab and in the future at the planned Electron Ion Collider (EIC). His current research is focused on short-range correlations in nuclei, and measurements of nucleon structure with tagged deep inelastic scattering. Additionally, he is currently serving as a physics working group co-convenor for the ECCE EIC detector proposal. In 2020 he received the Zuckerman Postdoctoral Scholarship at Tel Aviv University for 2020-2022 (joint with his position at MIT).

AUSTIN REID: Postdoctoral Fellow at Indiana University’s Center for Exploration of Energy and Matter (2018-2020, 2021-present), he spent the height of the pandemic as a Visiting Assistant Professor at Trinity College, Hartford, CT (2020-2021). He received his PhD in 2018 under the supervision of Dr. Paul Huffman and Dr. Bob Golub in 2018 from North Carolina State University for his work “Helium-3 Polarization and Origami Folded Cryogenic Actuators and Metamaterials.” Sole organizer of Computer Aided Magnetic Coil Design Workshop (2020). Awarded a Chateaubriand Fellowship from the Office for Science & Technology of the Embassy of France in the United States (2014). NCSU University Graduate Fellowship (2010). His work actively supports both nEDM@LANL and the Axion Resonant InterAction Detection Experiment (ARIADNE), experimental searches of symmetry violation and beyond-SM physics.

XVI. OTHER FORTHCOMING MEETINGS

Meeting organizers who wish to have their meetings advertised in the DNP newsletter should contact the DNP Secretary-Treasurer.